

# Connection systems for printed circuit boards



# Innovative product systems – continuous connections

2015 | 2016

U Contact

Connection systems for printed circuit boards

# The range of product catalogs from METZ CONNECT

By our range of product catalogs we really get things handy for you: concise information and highly interesting innovations across all our three product ranges **U|Contact**, **C|Logline** and **P|Cabling**.

Use our product range catalogs to learn more about our connection systems for printed circuit boards and devices, our intelligent system and switch cabinet components or our network cabling options.



U Contact

Printed circuit board and device connection techniques

P | Cabling

Cabling solutions in the copper and fiber optic techniques for building and industrial cabling applications

C Logline

C Logline

Intelligent components for systems and switch cabinets

RAcoust Rivarda Rivarda

**C** Logline

Intelligent components for systems and switch cabinets

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Dear business partners, dear customers,

For the last few years, the METZ CONNECT group has already had a globally oriented growth strategy, in which the activities and processes of the METZ CONNECT companies and organisations had been brought together on a global level. This has given METZ CONNECT energy from the synergistic effects and the more slimline processes for putting into practice our vision of a "Connectivity Specialist" who offers high-quality connection technology for the modern world of communications — from the printed circuit board to the Internet.

Especially against the background of a constantly increasing global networking the focus lies – besides a consistent appearance of METZ CONNECT – on a global availability of METZ CONNECT products. Everything is growing together and borders are losing their importance. Industry 4.0 and Internet of Things (IoT) are the current topics that move the markets. Complex supply and production chains in the industry. Convenient, safe and energy efficient types of building automation (Smart Living). A smart traffic infrastructure. All this requires intelligent networking of the devices and components involved. METZ CONNECT is ready to accompany you as a competent partner: with our know-how and our standardized and customized system solutions for a consistently safe and smooth data and signal flow.

The existing METZ CONNECT product range with its diversified solutions has been expanded further, and the new products have now been integrated into the catalog. We have already informed you in our last catalog about the deliberate integration of our connection technology, in which we have divided our core competences into three core ranges:

**U|Contact** stands for the connection technologies related to printed circuit boards and devices,

**C|Logline** stands for intelligent system and switch cabinet components and

**P|Cabling** stands for cabling systems in the copper and fiber optic technologies for building and

industrial cabling applications.

Our consistent connection technology and competent advice for a wide range of application solutions and customer requirements makes us the ideal partner for your demanding requirements. Let us jointly approach the projects in equipment and system construction, structured building and industrial wiring or as proven partner in wholesale distribution and support you in your daily work.

Make also use of our Internet appearance rich in contents and easy to understand. Here you will find a current overview of all novelties, products, including product-relevant documentations, planning aids and mounting films.

Visit us at www.metz-connect.com and see for yourself.

We are happy to meet the challenges that await us and are looking forward to advise and assist you as a real partner by our technically and economically sound solutions!





Your

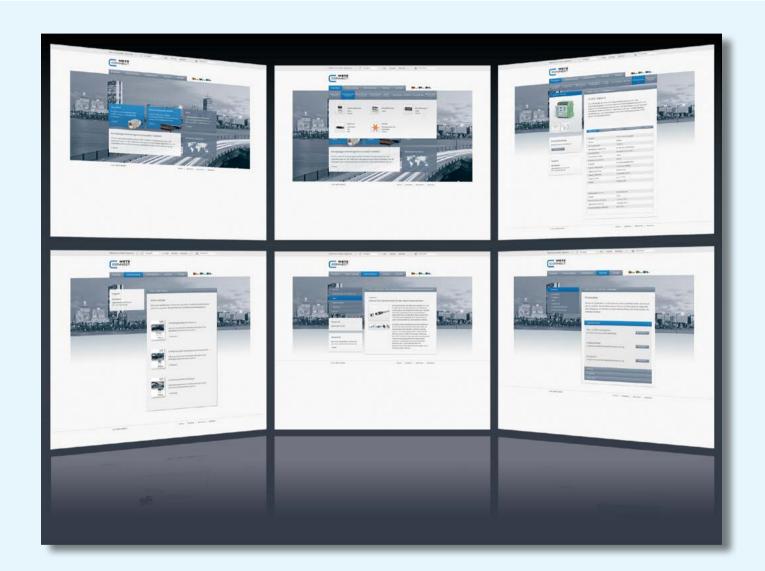
Je Mer

L.l. mets

Jochen Metz (Managing Partner) Christian Metz (Managing Partner)

and the entire team from METZ CONNECT.

## www.metz-connect.com



#### Detailed knowledge in a matter of seconds

Our product catalogs offer detailed product descriptions. But if you want to get even deeper into the details, visit us at www.metz-connect.com to get precise technical information within no time at all.

To do so, you may also use mobile tagging: Simply scan the shown QR-code using your smartphone and you will directly be connected to the METZ CONNECT homepage.



# The most up-to-date connection to METZ CONNECT

#### Our website for even more efficiency

Ideal user-friendliness and non-stop availability, – our website www.metz-connect.com offers you the most recent news about METZ CONNECT and our products that you need for your daily business. And all this at a speed that will really impress you!

#### Our products

You may use different options to search for a product: the integrated navigation bar with its "Products" menu and concise structure, or the enterprise research option including its filter function or the online catalogs for all those, who wish to rely on our known product portfolio structure. A few clicks will lead you to the desired products and enable you to download all relevant documents such as data sheets, drawings or certificates. In the same time also compatible accessory components will be displayed.

Under "Services" a complete download overview will be shown presenting the entire download offer from information brochures and certificates up to test results and 3D-data.

#### Your contacts

Finding your right contact with METZ CONNECT, a distributor or special dealer is easy and comfortable using the country and zip-code search options under "Contact". You can also select here your global sales partner.

#### News(letter)

In our News area we inform you in real time on our product innovations, events and news.

In the same time you may want to subscribe to the METZ CONNECT newsletter. This will ensure that you will receive the latest information literally in real time directly on your computer.

Or just come and discover the web site of METZ CONNECT and play around with all its benefits – welcome to www.metz-connect.com!

## Limitless connection

Globally, the importance of networks is ever increasing. The principles of universal, transparent information – from everywhere and at any time – and a communication with devices mapping different processes – define more and more our everyday life. And all this depends on reliable connection techniques.

To establish perfect connections is the core competence of METZ CONNECT. The METZ CONNECT group of companies offers a complete product range that stands out by its maximum system compatibility and continuity.

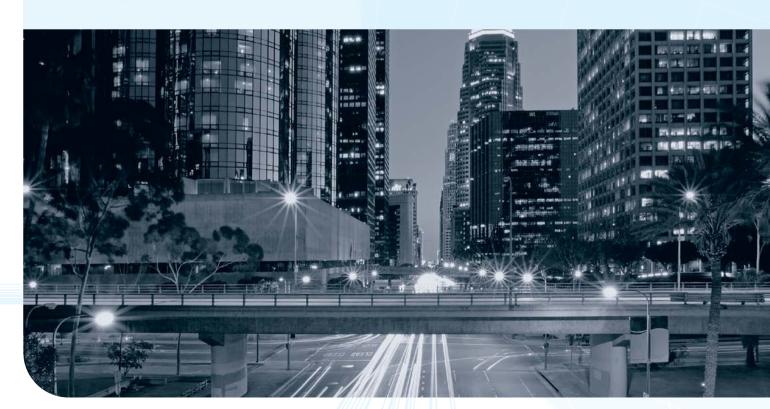
Our sophisticated portfolio and product approach in the market segments industrial electronics, data and communication technology and building services engineering guarantees smooth data flow from the printed circuit board through to connectors, cables and patch panels up to the infrastructural environment.

METZ CONNECT can thus guarantee a comprehensive, high-quality and transparent communication across all applications without system failures or performance losses. Next to the complete solutions, our group of companies offers also comprehensive services such as tailored product adaptations and new developments, qualified trainings, marketing support for our trade partners as well as a vast information program.

METZ CONNECT excels by quality – resulting from its intelligent company-internal value adds and perfectly harmonized processes from a product idea up to its delivery and commissioning. Our quality management system enables processes that are free from losses and protect the environment. An additional competitive advantage for our customers:

METZ CONNECT supplies complete solutions as one single provider.

To do so, we rely on our own stamping shops, plastic mold injection and tooling shops, testing laboratories, internal assembly units and experts in construction and programming of tools and production automation.



# All from one single source – for your competitive advantage



# A product range, which connects everything

METZ CONNECT offers a universal range of products from printed circuit boards up to terminal devices. As your customer-oriented solutions partner, we subdivided our diversified, user-friendly and internationally standardized components and/or systems into three well structured arrays.

Under the name of **U|Contact** we bundle innovative connectivity products and solutions for printed circuit boards for a use with all modern techniques applied in the assembly of printed circuit boards. Products that are compatible with the standards of the markets as well as tailored product solutions for industrial controls and building automation are our core strengths in this field. This includes terminal blocks, board-to-board connectors as well as peripheral connectors (RJ, M12, USB) for different applications and protection classes.

**P|Cabling** includes highly specified, internationally standardized and powerful connection components and connection systems in the copper and fiber optic techniques. These solutions are used in structured building and industry cabling applications and for data centers. Convenient installation, maximum quality and perfect system compatibility across all important performance classes are the main characteristics of our modular inserts, connectors, wall outlets, patch panels, distributors, IP-protected plug connectors and patch and installation cables.

**C|Logline** stands for intelligent system components for a highly communicative and decentralized control in the application and product areas building automation, measurement and monitoring relays, interface modules, industrial relays and telecommunication.

In addition we offer cross range system solutions. Perfectly harmonized connection systems with a protection degree of IP67 facilitate fast, safe and flexible connections of devices using optical coupler, RJ45 or Ethernet M12 connections.



# Customer-oriented solutions provider

**U** | Contact

Printed circuit board and device connection technology

Terminal blocks, pin headers



Connectors



Board-to-board



**C** Logline

**Intelligent components** 

Bus modules



Ethernet I/Os



Components for electrical cabinets



P Cabling

Cabling systems
Fiber Optic & copper

Connectors



Wall outlets, patch panels



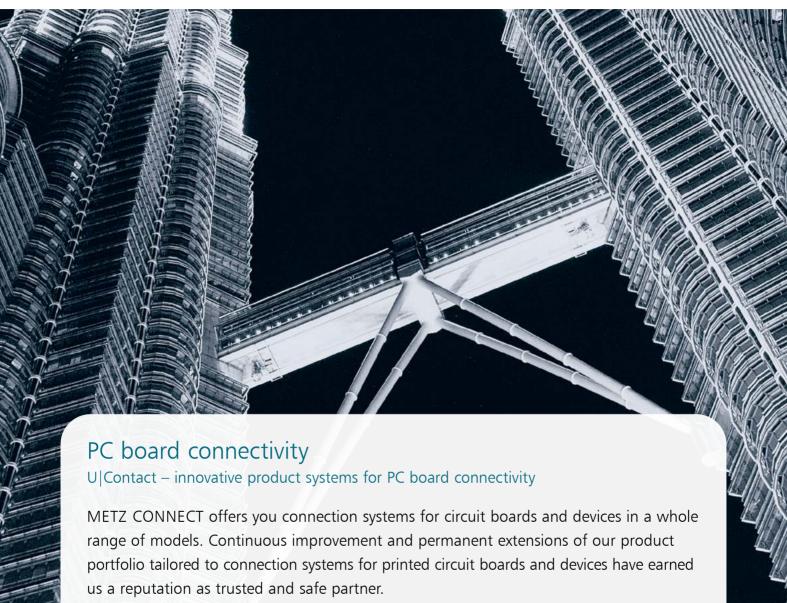
Patch cords, lines





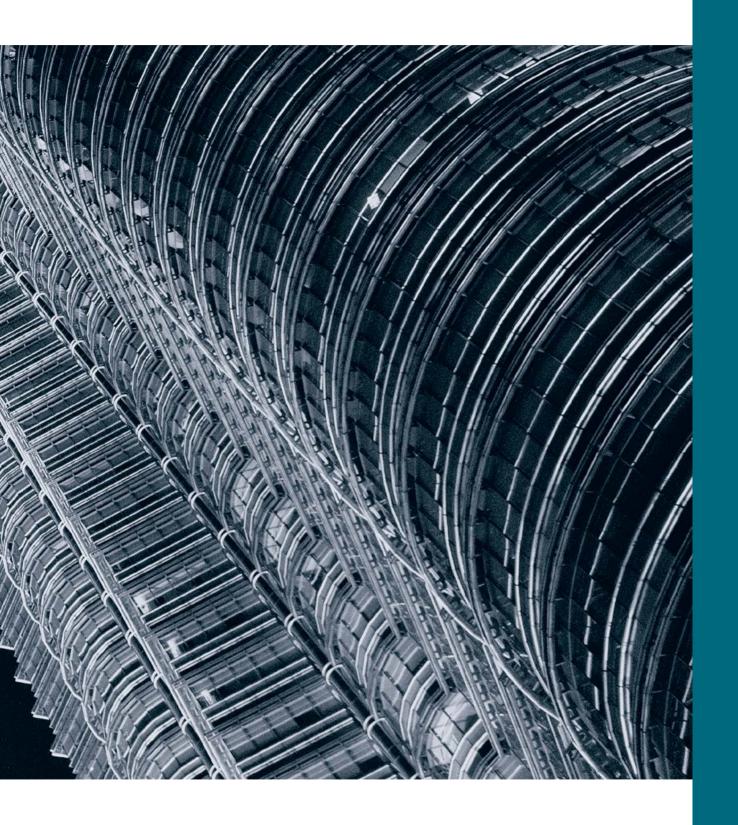
# Innovative product systems – continuous connections





Through its product range U|Contact METZ CONNECT offers continuous connections for all common techniques in the population of printed circuit boards. Products complying with the standards of the markets as well as customer-specific solutions and connection systems for devices geared to industrial electronics and building services engineering are

our core competencies in this field.



# U Contact product key

The product key for the U|Contact range of products offers customers a contemporary, uniform and easy-to-understand numbers system for all series of products.

The advantage: This product key describes the products according to their characteristics and thus creates transparency in the ordering and logistics processes.

Product families provide for a plain overview of the components and allow you to quickly identify the product properties such as fixation, center line, number of positions, etc. The variety of types has thus been reduced and combined to articles with identical features to make administration easier.

- N = normal,wire feed non-codeable side
- $\mathbf{O} = \text{normal}$ . wire feed codeable side
- $\mathbf{F} = \text{flange}.$ wire feed non-codeable side
- S = flange wire feed codeable side
- **U** = sequencing possible\*, wire feed non-codeable side
- V = sequencing possible\*, wire feed codeable side
- C = fittable\*. wire feed non-codeable side
- D = fittable \*, wire feed codeable side
- L = connection left-hand side
- **R** = connection right-hand side
- T = flat design
- **Z** = micro sd card slot
- **H** = two body material

**R** = Screw-type terminal blocks

P = Pin headers

**S** = Spring clamp terminal blocks

I = Insulation displacement terminal blocks

F = Female connectors

**Brand** 

Number **Type** of poles

Color

 $\mathbf{B} = \mathsf{black}$ 

 $\mathbf{G} = \text{green}$ 

**O** = orange

 $\mathbf{R} = \text{red}$ 

 $\mathbf{D} = \operatorname{gray}$ 

**W**= white

 $\mathbf{Y} = \text{yellow}$ 

 $\mathbf{N} = \text{nature}$ 

 $\mathbf{E} = brown$ 

 $\mathbf{V} = \text{violet}$ 

 $\mathbf{X} = \text{colorless}$ 

M= multi-color

 $\mathbf{H} = blue$ 

**Option** 

#### **Fixation**

- **P** = pluggable (standard plug face)
- **W** = pluggable (alternative plug face for solderable THR headers according to JEDEC 20)
- **T** = THT solderable (wave soldering)
- **R** = THR solderable (pin in paste) according to JEDEC 20
- **M** = SMD/SMT (reflow soldering) according to JEDEC 20
- **C** = pluggable over compression-mount contacts
- L = THT solderable with compression-mount contacts

#### Centerline (mm)

- E = 12.00**1** = 2.50 2 = 2.54F = 14.00G = 12.503 = 3.50**4** = 3.81 H = 15.00**5** = 5.00 J = 7.006 = 5.08
- K = 15.24**7** = 7.50 L = 6.35**8** = 7.62 M = 12.70
- 9 = 10.00 N = 9.52A = 10.16 O = 19.04
- B = 1.27Q = 8.00C = 2.00 $\mathbf{S} = \text{special}$ D = 4.00W =
  - $0.13^2 0.82^2$ Y = $0.82^2 - 1.3^2$

#### Structure

- $\mathbf{H} = \text{horizontal} = 90^{\circ}$
- $V = vertical = 0^{\circ} = 180^{\circ}$
- $\mathbf{D} = \text{diagonal} = 45^{\circ} = 135^{\circ}$
- I = horizontal lamella
- W = vertical lamella
- **E** = diagonal lamella
- $L = angled 30^{\circ} 35^{\circ}$  $U = angled 55^{\circ} - 60^{\circ}$
- **S** = extraction aid \*\*
- **F** = PB fixation\*\*
- R = latches\*\*
- **B** = plane bottom\*\* **O** = highly insulated, horizontal\*\*
- **P** = highly insulated, vertical\*\*

- $G = 90^{\circ}$  horizontally rotated  $T = 0^{\circ} = 180^{\circ}$  vertically
- M = multi-pins\*\* C = staggered pins\*\*

#### **Function**

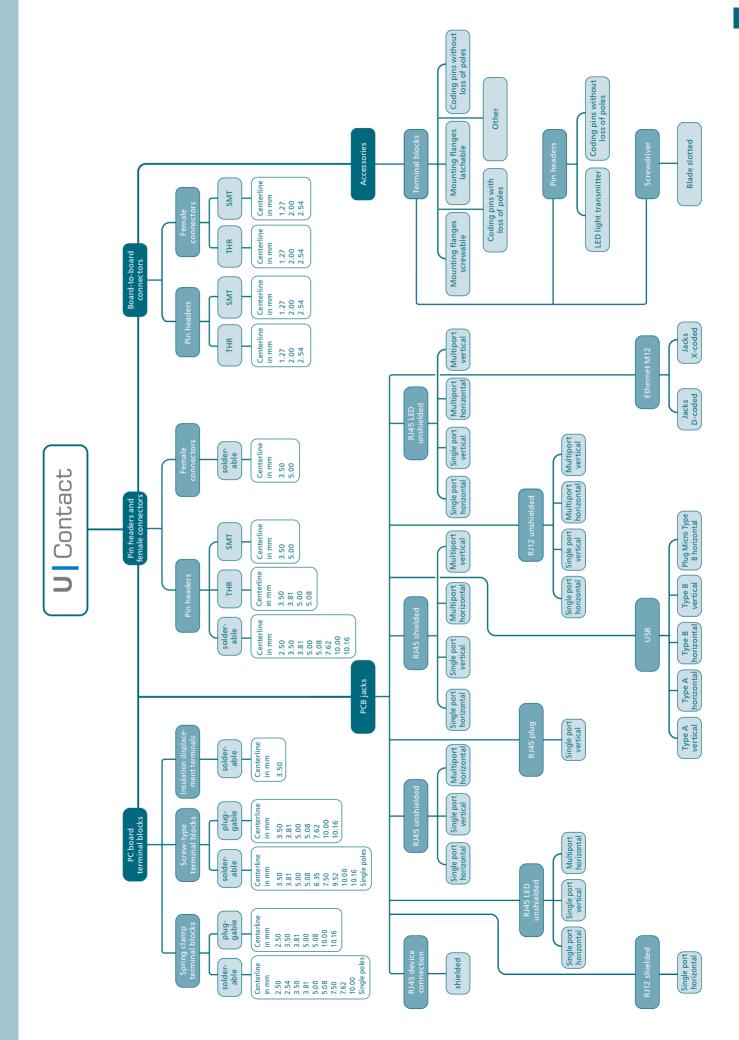
- N = Standard = 1-row
- **W** = wire protection
- **L** = lift system
- $\mathbf{V} = \text{variant}$
- **Z** = additional variant \*\*
- $\mathbf{B} = \text{shrouded}.$ closed ends
- $\mathbf{O} = dovetail$  $\mathbf{E} = \text{schrouded},$
- open ends  $\mathbf{H} = \text{non-shrouded}$
- **F** = spring contact
- $\mathbf{D} = \text{two-tier} = 2\text{-row}$
- T = 3-row
- **P** = Finger pusher J = Jumper

- Variants/ **Taping**
- **G1** = tape 16 mm
- **G2** = tape 32 mm
- **G3** = tape 44 mm
- **G4** = tape 56 mm **G5** = tape 72 mm
- **G6** = tape 88 mm
- **G7** = tape 24 mm
- **G8** = tape 104 mm
- T1 = tube

rotated

<sup>\*</sup>Sequencing possible means the mechanical sequencing without loss of poles (by dovetails) | Fittable stands for a loose sequencing without loss of poles (without dovetails)

<sup>\*\*</sup> Only applicable if two variants are available



#### PC board terminal blocks

1	Overview PC board terminal blocks	18
2	Spring clamp terminal blocks	20
3	Screw type terminal blocks	66
4	IDC type terminal blocks	134

# PC board terminal blocks





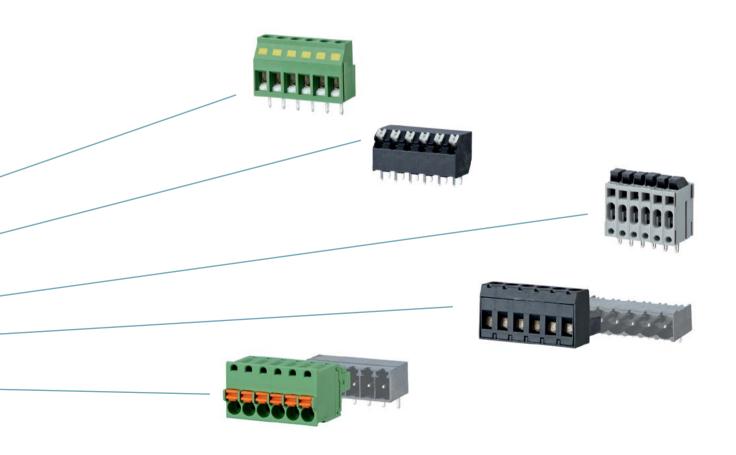
#### PC board terminal blocks

**Tried and tested** – METZ CONNECT has successfully marketed terminal blocks for printed circuit boards worldwide for decades. The portfolio incorporates products for signal and data streams, medium control streams and network connection terminals and output terminals.

**Complete** – a permanent expansion of the proven range as well as constant improvement and further development of our products are the declared goal in order to be able to offer you complete and high-quality solutions for your applications.

**All from one single source** – regardless of what you need in detail – products that result from joint developments, from design-in concepts based on existing or modified products or catalogs items – we will fully meet your demands in terms of PC board connectivity.

**Future-oriented** – in line with the market trends, our focus is on products that are also suitable for automated production. Whether it's designs for through-hole-reflow (THR) or surface mount technology (SMT) – we have the solution for you. We do of course also supply these products in the "Tape & Reel" packaging required for automation.



## **U** Contact

## Spring clamp terminal blocks

#### **Design specification**

The **product family** consists of terminal blocks that are based on a spring clamp connection. By spring clamp connection, we mean an electrical connection that is created by clamping an individual of an individual, isolated conductor using a spring. It is suitable for solid wires and multi-wire strands of 0.08–2.5 mm<sup>2</sup> rated section and enables:

- direct terminal without pre-treatment of conductor
- direct terminal with splice protection
- indirect terminal via wire end sleeve or pin cable shoe

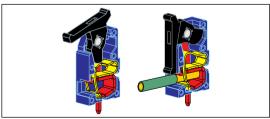
### Spring clamp terminal block with cage clamp (with and without eccentric lever)

- with eccentric lever open terminal chamber in the delivery status
- with eccentric lever tool-less connection of the conductors
- very short assembly times
- the closed power system inside the terminal block prevents pressure from being applied onto the circuit board at the time of connection
- gas-proof connection at the terminal point
- · sequenceability of different colors
- can be installed in the housing
- the spring adapts automatically to changed conductor sections

#### Spring clamp terminal block with leaf spring

- solid wires can be connected by simple insertion without actuation
- stranded wires and thin solid wires are connected using a standard screwdriver
- short assembly times
- gas-proof connection at the terminal point
- sequenceability of different colors
- can be installed in the housing
- the spring adapts automatically to changed conductor sections





#### **Reflow-compatible components**

METZ CONNECT offers a wide range of spring clamp terminal blocks in reflow-compatible designs. The demand for reflow-compatible components is constantly growing thanks to ever increasing degrees of automation in the production processes.

"Tape & Reel" is the name given to a taped form of packaging. The aim of this packaging variant is to automate production processes. The components are packed in a blister tape and welded with a protective foil. This tape is then wound round a reel. Taping corresponds to DIN EN 60286.

## **U** Contact

## Spring clamp terminal blocks

#### **Printing options**

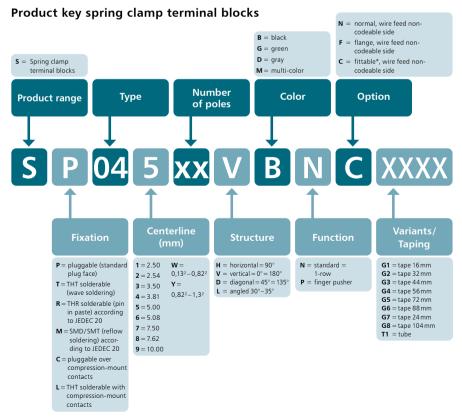
We offer individual printing of your terminal blocks. Figures or symbols, anti-clockwise or clockwise, legible or bottom up depending on the technical feasibility. Ink-jet print, pad printing and hot stamping are available as methods. Design your individual terminal block with us.

#### **Color options**

You can order the terminal blocks in a variety of sizes and also often vary the colors within a terminal block, if required. This is for instance helpful in housing integration to achieve an optically attractive overall picture or to use this as a further coding option. We would be pleased to advise you on the possible combinations.







<sup>\*</sup> Fittable stands for loose sequencing without loss of poles (without dovetails).



## **Symbol Definition**

#### **Guiding icons**



Spring clamp terminal block



IDC terminal block



Screw type terminal block



Pin header



Female connector



Ethernet M12



solderable



pluggable



Centerline



Wire entry 90°



Diagonal wire entry



Wire entry 0°



Lift system



Wire protector



modular



Pin header for vertical mounting



Shrouded pin header for vertical mounting



Pin header with open ends for vertical mounting



Pin header with closed ends for vertical mounting



Pin header for horizontal mounting



Shrouded pin header for horizontal mounting



Pin header with open ends for horizontal mounting



Pin header with closed ends for horizontal mounting



designed for THR



designed for SMT



Tape & Reel possible







Product family Pole size Color Option

ST06 1 XXHDNN \*(AST061)

Centerline Design Function \*old product name

- spring clamp terminal block, solderable
- centerline 2.50 mm, direction of connection 90°
- · color gray
- · without eccentric lever

#### **Technical data**

c Nus V/A/AWG 130/10/28-20

0.5 mm<sup>2</sup> Overvoltage category П Ш Ш Pollution degree 3 2 2 320 V Rated voltage 80 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.2 - 0.5 mm<sup>2</sup> 0.2 - 0.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 20 AWG 28 - 20 Rated wiring stranded wire Clearance and creepage distances 1.7 mm 0.8 x 0.8 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 5 mm Protection category according IP 20 to IEC 60529 6 mm Min. insul. strip length Color gray



- spring clamp terminal block, solderable
- centerline 2.50 mm, direction of connection 90°
- color gray
- · eccentric lever

#### **Technical data**

CNUS V / A / AWG 150 / 8 / 28 - 20

**≤** 0.5 mm² 130 V / 6 A / T60 Overvoltage category Ш Pollution degree 3 2 2 Rated voltage 80 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV **CTI 600** Insulating material class Rated wiring solid wire 0.2 - 0.5 mm<sup>2</sup> 0.2 - 0.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 20

5 mm

IP 20

Rated wiring solid wire

Rated wiring stranded wire

Clearance and creepage distances

Solder pin dimension

Recommended pc board hole dia.

AWG 28 - 20

AWG 28 - 20

AWG 28 - 20

AWG 28 - 20

1.7 mm

0.8 x 0.8 mm

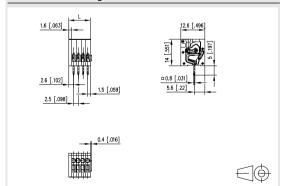
Solder pin length Protection category according

to IEC 60529

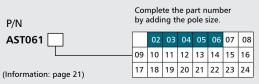
Min. insul. strip length

Min. insul. strip length 6 mm Color gray

#### **Dimensional drawing**

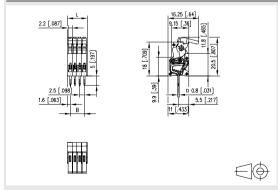


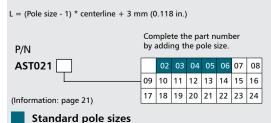
L = (Pole size - 1) \* centerline + 4.1 mm (0.161 in.)



Standard pole sizes

#### **Dimensional drawing**











- · spring clamp terminal block, solderable, double solder pins
- centerline 2.50 mm, direction of connection 45°
- · color gray
- eccentric lever

c **Tu**s V / A / AWG 150 / 8 / 28 - 18

**∫**5€ 0.5 mm² 130 V / 6 A / T60

Overvoltage category Ш Ш П Pollution degree 3 2 2 Rated voltage 80 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

Insulating material class Rated wiring solid wire Rated wiring stranded wire Rated wiring solid wire

Rated wiring stranded wire Clearance and creepage distances 1.7 mm Solder pin dimension

Recommended pc board hole dia. ø 1.3 mm Solder pin length

Protection category according to IEC 60529

Min. insul. strip length

Color

0.2 - 0.5 mm<sup>2</sup> 0.2 - 0.5 mm<sup>2</sup> AWG 28 - 18 AWG 28 - 18

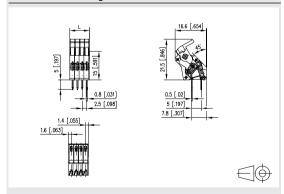
CTI 600

2 x 0.8 x 0.5 mm

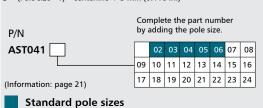
5 mm

IP 20 6 mm gray

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 3 mm (0.118 in.)













- · spring clamp terminal block, solderable, double solder pins
- centerline 2.54 mm, direction of connection 90°
- · color green
- push-button

c **Ti**us V / A / AWG 150 / 6 / 26 - 20

0.5 mm<sup>2</sup> Overvoltage category П Ш Ш Pollution degree 3 2 2 Rated voltage 160 V 400 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.2 - 0.5 mm<sup>2</sup> 0.2 - 0.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 26 - 20 AWG 26 - 20 Rated wiring stranded wire Clearance and creepage distances 2 mm 2 x 0.8 x 0.5 mm Solder pin dimension Recommended pc board hole dia. ø 1.1 mm Solder pin length 3.2 mm Protection category according IP 20

10 mm

green







- spring clamp terminal block, solderable, double solder pins
- centerline 2.54 mm, direction of connection vertical 0°
- color green
- push-button

#### Technical data

**∫**5€ 0.5 mm² 130 V / 6 A / T60 Overvoltage category Ш Pollution degree 3 2 2 Rated voltage 160 V 400 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV **CTI 600** Insulating material class Rated wiring solid wire 0.2 - 0.5 mm<sup>2</sup> 0.2 - 0.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 26 - 20

3.48 mm

AWG 26 - 20 Rated wiring stranded wire Clearance and creepage distances 2 mm 2 x 0.8 x 0.5 mm Solder pin dimension ø 1.1 mm

Recommended pc board hole dia. Solder pin length

Protection category according to IEC 60529

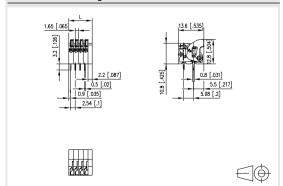
IP 20 10 mm Min. insul. strip length green Color

#### **Dimensional drawing**

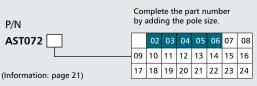
to IEC 60529

Color

Min. insul. strip length

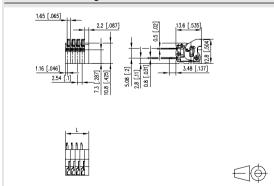


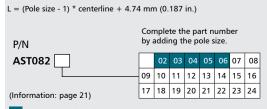
L = (Pole size - 1) \* centerline + 4.74 mm (0.187 in.)



Standard pole sizes

#### Dimensional drawing





Standard pole sizes









Product family Pole size Color Option

SR213 XXH B N C

\*(AST223)

\*old product na

\*old product na

- spring clamp terminal block, THR solderable, double solder pins
- centerline 3.50 mm, direction of connection 90°
- fittable without loss of poles
- color black
- Tape & Reel packaging
- push-button

#### Technical data

c Nus V/A/AWG 150/10/28-16

1.5 mm<sup>2</sup> 130 V / 17.5 A / T60 Overvoltage category Ш Ш Ш Pollution degree 2 Rated voltage 160 V 400 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 Rated wiring solid wire

Rated wiring stranded wire Clearance and creepage distances Solder pin dimension

Recommended pc board hole dia. Solder pin length

Protection category according to IEC 60529

Min. insul. strip length Color AWG 28 - 16 2 mm

2 x 0.4 x 0.8 mm ø 1.2 mm

3.45 mm

IP 20 8.5 mm black

# 146



- spring clamp terminal block, THR solderable, double solder pins
- centerline 3.50 mm, direction of connection 90°
- · fittable without loss of poles
- · color black

1.5 mm<sup>2</sup>

- Tape & Reel packaging
- · finger push-button

#### Technical data

c Nus V/A/AWG 150/10/28-16

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 160 V
 400 V
 400 V

 Rated test voltage
 2.5 kV
 2.5 kV
 2.5 kV

130 V / 17.5 A / T60

Rated test voltage 2.5 kV 2.5 kV 2.5 losulating material class CTI 600

Rated wiring solid wire 0.08 - 1.5 mm²

Rated wiring stranded wire 0.08 - 1.5 mm²

Rated wiring solid wire AWG 28 - 16

Rated wiring stranded wire AWG 28 - 16

Clearance and creepage distances 2 mm

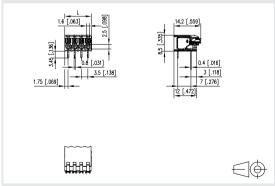
Solder pin dimension 2 x 0.4 x 0.8 mm

Recommended pc board hole dia. Ø 1.2 mm

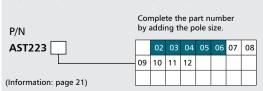
Solder pin length 3.45 mm

Protection category according to IEC 60529 IP 20
Min. insul. strip length 8.5 mm
Color black

#### Dimensional drawing

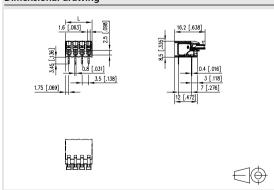


L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

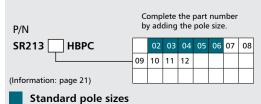


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)











Product family Pole size Color Option

SR213 XXD B N C

\*(AST233)

Centerline Design Function \*old product name

- spring clamp terminal block, THR solderable, double solder pins
- centerline 3.50 mm, direction of connection 45°
- fittable without loss of poles
- · color black
- Tape & Reel packaging
- push-button

#### **Technical data**

c **Ti**us V / A / AWG 150 / 10 / 28 - 16

1.5 mm<sup>2</sup> 130 V / 17.5 A / T60 Overvoltage category Ш Ш Ш Pollution degree Rated voltage 160 V 400 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 Rated wiring solid wire Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 2.2 mm Solder pin dimension 2 x 0.4 x 0.8 mm ø 1.2 mm Recommended pc board hole dia. Solder pin length 3 5 mm Protection category according

IP 20

black

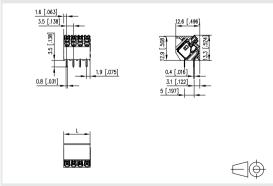
8.5 mm

#### Dimensional drawing

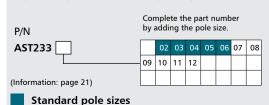
Min. insul. strip length

to IEC 60529

Color



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)





\* Approval pending



SR213xxDBPC

Centerline Design Function

pins
 centerline 3.50 mm, direction of connection 45°

spring clamp terminal block, THR solderable, double solder

- fittable without loss of poles
- color black
- Tape & Reel packaging
- · finger push-button

#### **Technical data**

c % v / A / AWG 130 / 10 / 28 - 16

1.5 mm<sup>2</sup> 130 V / 17.5 A / T60

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 160 V
 400 V
 400 V

 Rated test voltage
 2.5 kV
 2.5 kV
 2.5 kV

Rated test voltage **CTI 600** Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 Rated wiring solid wire Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 2.2 mm Solder pin dimension 2 x 0.4 x 0.8 mm ø 1.2 mm

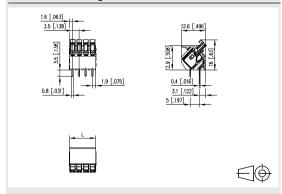
Recommended pc board hole dia. Ø 1.2 mm

Solder pin length 3.5 mm

Protection category according to IEC 60529 IP 20

to IEC 60529 IP 20
Min. insul. strip length 8.5 mm
Color black

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

Standard pole sizes









Product family Pole size Color Option

SR213 XXVBNC \*(AST213)

Centerline Design Function \*old product nam

\*old product

- spring clamp terminal block, THR solderable, double solder pins
- centerline 3.50 mm, direction of connection vertical 0°
   fittable without loss of poles
- color black
- · Tape & Reel packaging
- push-button

#### Technical data

c Nus V / A / AWG 150 / 10 / 28 - 16

1.5 mm<sup>2</sup> 130 V / 17.5 A / T60 Overvoltage category Ш Ш Ш Pollution degree Rated voltage 160 V 400 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 Rated wiring solid wire Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 2 mm Solder pin dimension 2 x 0.4 x 0.8 mm

ø 1.2 mm

3 5 mm

IP 20

Recommended pc board hole dia. Solder pin length Protection category according

to IEC 60529

Min. insul. strip length 8.5 mm Color black



- spring clamp terminal block, THR solderable, double solder pins
- centerline 3.50 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black

1.5 mm<sup>2</sup>

- Tape & Reel packaging
- · finger push-button

#### Technical data

c **Ni**us V / A / AWG 150 / 10 / 28 - 16

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 160 V
 400 V
 400 V

 Rated test voltage
 2.5 kV
 2.5 kV
 2.5 kV

130 V / 17.5 A / T60

Rated test voltage 2.5 kV 2.5 kV 2.5 lV 2.5

Solder pin dimension 2 x 0.4 x 0.8 mm

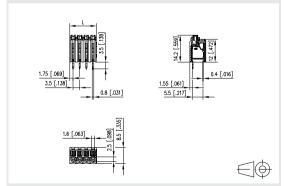
Recommended pc board hole dia. Ø 1.2 mm

Solder pin length 3 5 mm

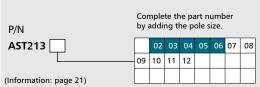
Solder pin length
Protection category according

to IEC 60529 IP 20
Min. insul. strip length 8.5 mm
Color black

#### **Dimensional drawing**

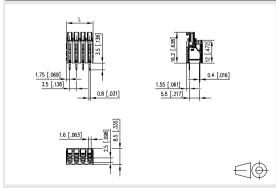


L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

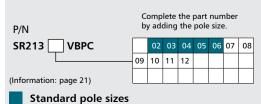


Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)









- centerline 3.81 mm, direction of connection 90°
- · color gray
- eccentric lever

#### c **Tu**s V / A / AWG 150 / 7 / 28 - 20

0.5 mm<sup>2</sup> 250 V / 6 A / T60

Overvoltage category Ш Ш П Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V 4.0 kV 4 kV Rated test voltage 4.0 kV

Insulating material class CTI 600 Rated wiring solid wire 0.2 - 0.5 mm<sup>2</sup> Rated wiring stranded wire 0.2 - 0.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 20 AWG 28 - 20 Rated wiring stranded wire Clearance and creepage distances 3 mm

Solder pin dimension Recommended pc board hole dia. ø 1.3 mm

Solder pin length Protection category according

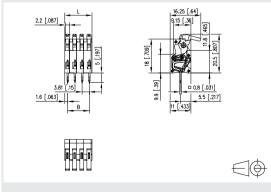
to IEC 60529 Min. insul. strip length Color

IP 20 6 mm gray

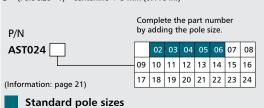
5 mm

0.8 x 0.8 mm

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 3 mm (0.118 in.)









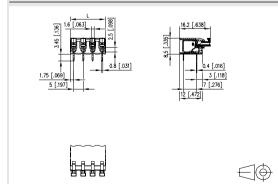


- spring clamp terminal block, THR solderable, double solder pins
- centerline 5.00 mm, direction of connection 90°
- fittable without loss of poles
- · color black
- Tape & Reel packaging
- push-button

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш Ш Ш Pollution degree 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 Rated wiring solid wire Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 3.4 mm Solder pin dimension 2 x 0.4 x 0.8 mm ø 1.2 mm Recommended pc board hole dia. Solder pin length 3.45 mm Protection category according IP 20 to IEC 60529

8.5 mm

black



black

L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

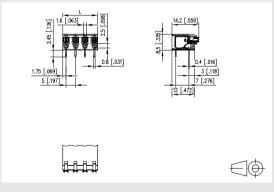
Complete the part number by adding the pole size. P/N SR215 HBPC 02 03 04 05 06 07 08 10 | 11 | 12 | 13 | 14 | 15 | 16 (Information: page 21) Standard pole sizes

Color

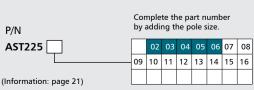
### **Dimensional drawing**

Min. insul. strip length

Color



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)



Standard pole sizes





- spring clamp terminal block, THR solderable, double solder pins
- centerline 5.00 mm, direction of connection 90°
- · fittable without loss of poles
- color black
- · Tape & Reel packaging
- · finger push-button Technical data

CN us V/A/AWG 300/10/28-16 1.5 mm<sup>2</sup> 250 V / 17.5 A / T60

Overvoltage category Ш Ш Ш Pollution degree Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV

**CTI 600** Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 Rated wiring solid wire Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 3.4 mm Solder pin dimension 2 x 0.4 x 0.8 mm ø 1.2 mm Recommended pc board hole dia.

Solder pin length 3.45 mm Protection category according IP 20 to IEC 60529 8.5 mm Min. insul. strip length

Dimensional drawing









- · spring clamp terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- · color gray
- · without eccentric lever

1 mm<sup>2</sup> 250 V / 13.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 Rated voltage 320 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV Insulating material class CTI 600 Rated wiring solid wire 0.2 - 2.0 mm<sup>2</sup> 0.2 - 2.0 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 14 AWG 28 - 14 Rated wiring stranded wire Clearance and creepage distances 4 mm 1.0 x 0.8 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 5 mm Protection category according IP 20 to IEC 60529 6 mm Min. insul. strip length Color gray







- spring clamp terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- fittable without loss of poles
- color gray

П

2

800 V

eccentric lever

#### **Technical data**

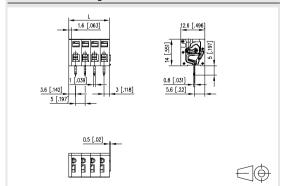
c X us V / A / AWG 300 / 13 / 28 - 14

^				
≤sex 1 mm²	250 V / 13.5 A	/ T60		
Overvoltage catego	ry	III	III	II
Pollution degree		3	2	2
Rated voltage		250 V	500 V	500 V
Rated test voltage		4.0 kV	4 kV	4.0 kV
Insulating material	class	CTI 400		
Rated wiring solid v	vire	0.2 - 2.0	0 mm²	
Rated wiring strand	ed wire	0.2 - 2.0	0 mm²	
Rated wiring solid v	vire	AWG 28	3 - 14	
Rated wiring strand	ed wire	AWG 28	3 - 14	
Clearance and creep	age distances	4 mm		
Solder pin dimension	n	1.0 x 0.	8 mm	
Recommended pc b	oard hole dia.	ø 1.4 m	m	
Solder pin length		5 mm		
Protection category	according	ID 20		
to IEC 60529		IP 20		

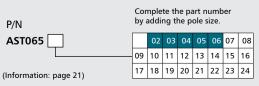
6 mm

gray

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 7.6 mm (0.299 in.)

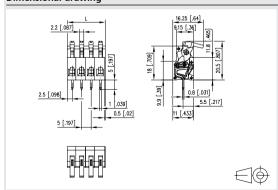


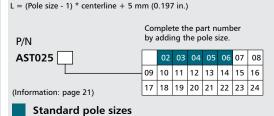
Standard pole sizes

#### **Dimensional drawing**

Min. insul. strip length

Color













\*(AST055)

- · spring clamp terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- fittable without loss of poles
- · color black
- eccentric lever

#### Technical data

c **%** us V / A / AWG 300 / 12 / 28 - 12

2.5 mm<sup>2</sup> 250 V / 20 A / T60 Overvoltage category Ш Ш п Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 4 mm 1.0 x 0.8 mm Solder pin dimension

ø 1.4 mm

Solder pin length 3.1 mm Protection category according **IP 20** to IEC 60529 Min. insul. strip length 6 mm

Recommended pc board hole dia.

black Color







- spring clamp terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection 90°
- color gray
- push-button, double solder pins

#### Technical data

1 mm<sup>2</sup> 250 V / 13.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV **CTI 600** Insulating material class Rated wiring solid wire 0.2 - 2.5 mm<sup>2</sup> 0.2 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances

Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length

Protection category according

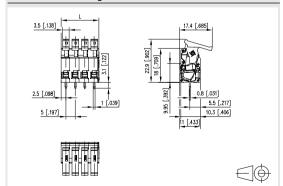
to IEC 60529

Min. insul. strip length Color

4.5 mm 2 x 1.0 x 0.5 mm 3.48 mm IP 20 15 mm

gray

**Dimensional drawing** 

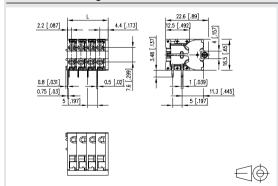


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.) Complete the part number by adding the pole size. P/N 02 03 04 05 06 07 08 AST095 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 17 18 19 20 21 22 23 24 (Information: page 21)





Standard pole sizes







(AST235)

- spring clamp terminal block, THR solderable, double solder pins
- · centerline 5.00 mm, direction of connection 45°
- fittable without loss of poles
- · color black
- Tape & Reel packaging
- push-button

#### **Technical data**

c Nus V/A/AWG 300/10/28-16

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш Ш Ш Pollution degree Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 Rated wiring solid wire Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 3.7 mm Solder pin dimension 2 x 0.4 x 0.8 mm ø 1.2 mm Recommended pc board hole dia. Solder pin length 3 5 mm Protection category according IP 20 to IEC 60529 8.5 mm Min. insul. strip length

# (AST045)

- spring clamp terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection 45°
- fittable without loss of poles
- color gray
- eccentric lever

#### **Technical data**

c X us V / A / AWG 300 / 13 / 28 - 14

1 mm <sup>2</sup>	250 V / 13.5 A	/ T60		
Overvoltage categor	ry	Ш	Ш	II
Pollution degree		3	2	2
Rated voltage		250 V	500 V	500 V
Rated test voltage		4.0 kV	4 kV	4.0 kV
Insulating material	class	CTI 400		
Rated wiring solid v	vire	0.2 - 1.5	5 mm²	
Rated wiring strand	ed wire	0.2 - 1.5	5 mm²	
Rated wiring solid v	vire	AWG 28	3 - 16	
Rated wiring strand	ed wire	AWG 28	3 - 16	
Clearance and creep	age distances	4 mm		
Solder pin dimensio	n	2 x 1.0 x	x 0.8 mm	
Recommended pc b	oard hole dia.	ø 1.4 m	m	
Solder pin length		3.5 mm		

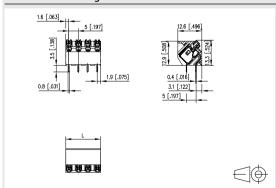
**IP 20** 

6 mm

gray

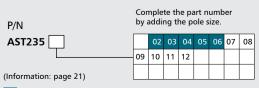
#### **Dimensional drawing**

Color



black

L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)



Standard pole sizes

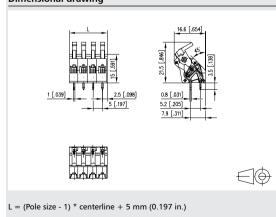
#### **Dimensional drawing**

to IEC 60529

Color

Protection category according

Min. insul. strip length



Complete the part number by adding the pole size. P/N 02 03 04 05 06 07 08 AST045 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16

17 18 19 20 21 22 23 24 (Information: page 21)

Standard pole sizes









\*(AST135) \*old product name

- · spring clamp terminal block, solderable
- centerline 5.00 mm, direction of connection 45°
- fittable without loss of poles
- color gray
- · eccentric lever

#### Technical data

c Nus V / A / AWG 300 / 13 / 28 - 14

2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category Ш Ш п Pollution dearee 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.2 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.2 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 Rated wiring stranded wire AWG 28 - 12 Clearance and creepage distances 4 mm 0.8 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.5 mm

IP 20

6 mm

gray

# \*(AST175)

- spring clamp terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection 60°
- · color gray
- push-button

#### Technical data

**N** V/A/AWG 300/15/28-12

1 mm² 250 V / 13.5 A / T60 Overvoltage category Ш Pollution degree 3 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV **CTI 600** Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 4.5 mm 2 x 0.5 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm

4 mm

IP 20

gray

15 mm

Solder pin length Protection category according

to IEC 60529

Min. insul. strip length Color

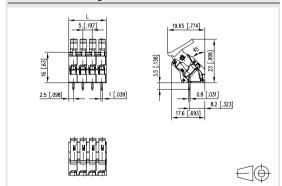
#### **Dimensional drawing**

to IEC 60529

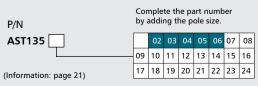
Color

Protection category according

Min. insul. strip length

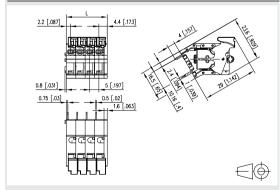


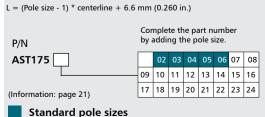
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

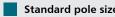


Standard pole sizes

#### **Dimensional drawing**





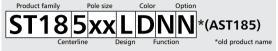












- · spring clamp terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection 60°
- · color gray
- · push-button, double solder pins

# **N** V/A/AWG 300/15/28-12

**≤** 1 mm² 250 V / 13.5 A / T60 Overvoltage category Ш Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire

4.5 mm

4 mm

IP 20

2 x 0.5 x 1.0 mm

Clearance and creepage distances Solder pin dimension Recommended pc board hole dia. ø 1.4 mm

Solder pin length Protection category according to IEC 60529 Min. insul. strip length

15 mm Color gray

(AST215)

- spring clamp terminal block, THR solderable, double solder pins
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- Tape & Reel packaging
- push-button

# Technical data

c X us V / A / AWG 300 / 10 / 28 - 16

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60

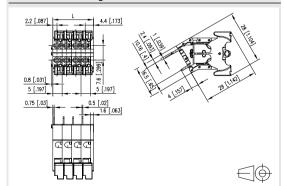
Overvoltage category Ш Ш Ш Pollution degree Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV Insulating material class **CTI 600** 

Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 3.4 mm Solder pin dimension 2 x 0.4 x 0.8 mm

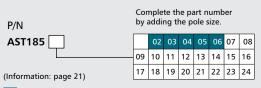
ø 1.2 mm Recommended pc board hole dia. Solder pin length 3 5 mm

Protection category according IP 20 to IEC 60529 8.5 mm Min. insul. strip length black Color

# **Dimensional drawing**

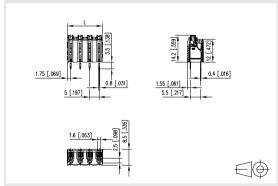


L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)

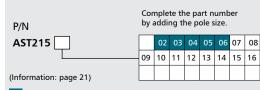


Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

















- · spring clamp terminal block, THR solderable, double solder pins
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- Tape & Reel packaging
- · finger push-button

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш Ш Ш Pollution degree 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 Rated wiring solid wire Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 3.4 mm Solder pin dimension 2 x 0.4 x 0.8 mm Recommended pc board hole dia. ø 1.2 mm Solder pin length 3 5 mm Protection category according IP 20 to IEC 60529

8.5 mm

black

# 1 mm<sup>2</sup> 250 V / 13.5 A / T60

push-button, double solder pins

color gray

Technical data

Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV

spring clamp terminal block, solderable, double solder pins

centerline 5.00 mm, direction of connection vertical 0°

**\** \*(AST105)

**CTI 600** Insulating material class Rated wiring solid wire 0.2 - 2.5 mm<sup>2</sup> 0.2 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 4.5 mm 2 x 0.5 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm

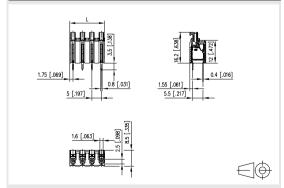
3.4 mm

Protection category according IP 20 to IEC 60529 15 mm Min. insul. strip length Color gray

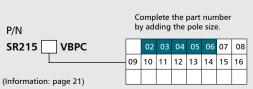
# **Dimensional drawing**

Min. insul. strip length

Color



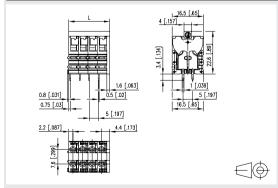
L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)



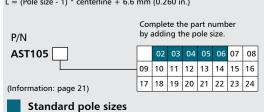
Standard pole sizes

# **Dimensional drawing**

Solder pin length



L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)













- · spring clamp terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection vertical 0°
- · color gray
- finger push-button, double solder pins

- 12 Mar 1/ A / ANG 300 / 15 / 28 - 12

c That us V / A / AWG	300 / 15 / 28 -	12			
1 mm <sup>2</sup>	250 V / 13.5 A	/T60			
Overvoltage catego	ry	III	III	II	
Pollution degree		3	2	2	
Rated voltage		320 V	800 V	800 V	
Rated test voltage		4 kV	4.0 kV	4 kV	
Insulating material	class	CTI 600			
Rated wiring solid v	vire	0.2 - 2.5 mm <sup>2</sup>			
Rated wiring strand	ed wire	0.2 - 2.5 mm <sup>2</sup>			
Rated wiring solid v	AWG 28	AWG 28 - 12			
Rated wiring strand	AWG 28	3 - 12			
Clearance and creep	page distances	4.5 mm			
Solder pin dimension	on	2 x 0.5 x 1.0 mm			
Recommended pc b	ø 1.4 mm				
Solder pin length	3.4 mm				
Protection category according					
to IEC 60529	IP 20				
Min. insul. strip len	gth	15 mm			
Color		gray			





- spring clamp terminal block, solderable, double solder pins
- ullet centerline 5.00 mm, direction of connection vertical  $0^\circ$
- color gray
- push-button, two individual contacts per centerline

# **Technical data**

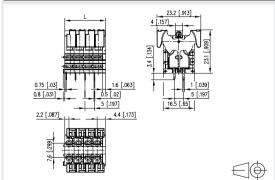
_				
1.5 mm <sup>2</sup> 450 V / 17.5 A	/T60			
Overvoltage category	Ш	Ш	II	
Pollution degree	3	2	2	
Rated voltage	320 V	800 V	800 \	
Rated test voltage	4 kV	4.0 kV	4 kV	
Insulating material class	CTI 600			
Rated wiring solid wire	0.2 - 2.5	mm²		
Rated wiring stranded wire	0.2 - 2.5	mm²		
Rated wiring solid wire	AWG 28 - 12			
Rated wiring stranded wire	AWG 28	3 - 12		
Clearance and creepage distances	4.5 mm			
Solder pin dimension	2 x 0.5 x	( 1.0 mm		
Recommended pc board hole dia.	ø 1.4 m	m		
Solder pin length	3.2 mm			

IP 20

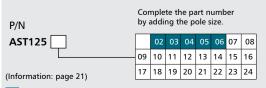
gray

12 mm

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)



Standard pole sizes

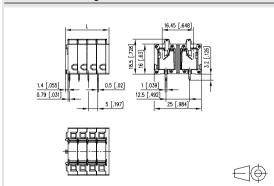
# **Dimensional drawing**

to IEC 60529

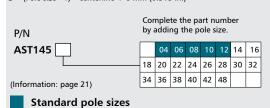
Color

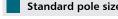
Protection category according

Min. insul. strip length



L = (Pole size - 1) \* centerline + 8 mm (0.315 in.)



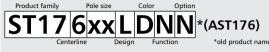












- · spring clamp terminal block, solderable, double solder pins
- centerline 5.08 mm, direction of connection 60°
- · color gray
- push-button

# **N** V/A/AWG 300/15/28-12

**≤** 1 mm² 250 V / 13.5 A / T60 Overvoltage category Ш Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 4.5 mm 2 x 0.5 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 4 mm

IP 20

gray

15 mm

# **N** \*(AST186)

- spring clamp terminal block, solderable, double solder pins
- centerline 5.08 mm, direction of connection 60°
- color gray
- push-button, double solder pins

# Technical data

**N** V/A/AWG 300/15/28-12

1 mm² 250 V / 13.5 A / T60 Overvoltage category Ш Pollution degree 3 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV **CTI 600** Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 Rated wiring stranded wire

Clearance and creepage distances Solder pin dimension Recommended pc board hole dia. ø 1.4 mm

Solder pin length Protection category according

to IEC 60529

Min. insul. strip length Color

AWG 28 - 12 4.5 mm 2 x 0.5 x 1.0 mm 4 mm IP 20 15 mm

gray

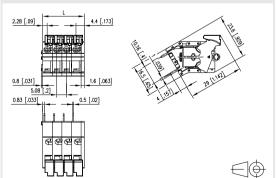
# **Dimensional drawing**

Protection category according

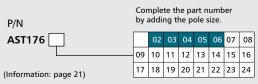
Min. insul. strip length

to IEC 60529

Color

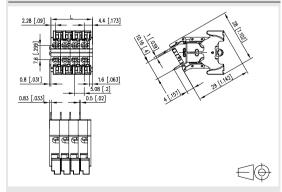


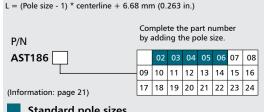
L = (Pole size - 1) \* centerline + 6.68 mm (0.263 in.)



Standard pole sizes

# **Dimensional drawing**















- spring clamp terminal block, solderable
- $\bullet\,$  centerline 7.50 mm, direction of connection  $90^\circ$
- color gray
- · without eccentric lever

r Nis V / A / AWG 600 / 13 / 28 - 14

CTALS V / A / AVVG	600 / 13 / 28 -	14	
1 mm <sup>2</sup>	750 V / 13.5 A	/ T60	
Overvoltage categor	у	III	Ш
Pollution degree		3	2
Rated voltage		400 V	800 V
Rated test voltage		6.0 kV	6 kV
Insulating material of	lass	CTI 400	
Rated wiring solid w	/ire	0.2 - 2.0	mm²
Rated wiring strand	ed wire	0.2 - 2.0	mm²
Rated wiring solid w	/ire	AWG 28	- 14
Rated wiring strand	ed wire	AWG 28	- 14
Clearance and creep	age distances	6.5 mm	
Solder pin dimensio	n	1.0 x 0.8	mm
Recommended pc b	oard hole dia.	ø 1.4 mi	n
Solder pin length		5 mm	
Protection category	according	ID 20	
to IEC 60529	.1	IP 20	
Min. insul. strip leng	yth	6 mm	
Color		gray	

# 44444





- spring clamp terminal block, solderable
- centerline 7.50 mm, direction of connection 90°
- fittable without loss of poles
- color gray

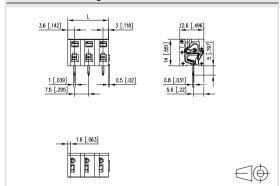
II 2 800 V 6.0 kV · eccentric lever

# **Technical data**

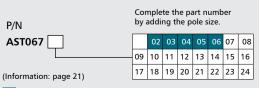
c Sus V / A / AWG 600 / 13 / 28 - 14

	^				
	<b>≤</b> 1 mm <sup>2</sup> 750 V / 13	5 A / T60			
	Overvoltage category	III I	II	II	
	Pollution degree	3 2	2	2	
	Rated voltage	400 V 8	300 V	V 008	
	Rated test voltage	6.0 kV 6	5 kV	6.0 kV	
	Insulating material class	CTI 400			
	Rated wiring solid wire	0.2 - 2.0 r	mm²		
	Rated wiring stranded wire	0.2 - 2.0 r	0.2 - 2.0 mm <sup>2</sup>		
Rated wiring solid wire		AWG 28 -	AWG 28 - 14		
Rated wiring stranded wire		AWG 28 -	14		
Clearance and creepage distances		es 6.5 mm			
	Solder pin dimension	1.0 x 0.8 i	mm		
	Recommended pc board hole of	ia. ø 1.4 mm			
	Solder pin length	5 mm			
	Protection category according				
	to IEC 60529	IP 20			
	Min. insul. strip length	6 mm			
	Color	gray			

# **Dimensional drawing**

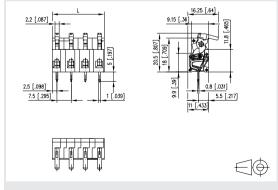


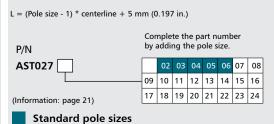
L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)



Standard pole sizes

# **Dimensional drawing**













\*(AST057) \*old product name

- · spring clamp terminal block, solderable
- centerline 7.50 mm, direction of connection 90°
- fittable without loss of poles
- · color black
- eccentric lever

# Technical data

c **Su**s V / A / AWG 300 / 17 / 28 - 12

2.5 mm<sup>2</sup> 250 V / 20 A / T60 Overvoltage category Ш Pollution degree 3 2 Rated voltage 500 V 1250 V 1250 V

Rated test voltage 6.0 kV 6.0 kV 6 kV CTI 600

Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire

Clearance and creepage distances 6.5 mm 1.0 x 0.8 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.1 mm

Protection category according **IP 20** to IEC 60529 6 mm Min. insul. strip length black Color

- spring clamp terminal block, THR solderable, double solder pins
- centerline 7.50 mm, direction of connection 45°
- · color black

П

2

· push-button, double solder pins

# Technical data

c Nus V/A/AWG 300/16/20-14

2.5 mm<sup>2</sup> 250 V / 24 A / T60

Overvoltage category Ш п Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V 4 kV 4 kV 4 kV

Rated test voltage CTI 600 Insulating material class Rated wiring solid wire 0.5 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.5 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 20 - 14 AWG 20 - 14

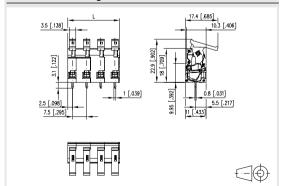
Rated wiring stranded wire Clearance and creepage distances 4.7 mm 2 x 0.5 x 1.5 mm Solder pin dimension

Recommended pc board hole dia. ø 1.8 mm Solder pin length 3 mm

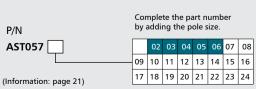
Protection category according to IEC 60529

IP20 9 mm Min. insul. strip length black Color

# **Dimensional drawing**

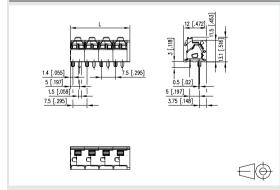


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

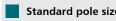
## Dimensional drawing



L = (Pole size - 1) \* centerline + 9,1 mm (0,354 in.)

Standard pole sizes

Complete the part number by adding the pole size. P/N SR207xxDBVN 02 03 04 05 06 07 08 09 10 11 12 (Information: page 21)





PC board terminal blocks





- STO4 7 XXDDNC \*(AST047)

  Centerline Design Function \*old product name
- spring clamp terminal block, solderable, double solder pins
- centerline 7.50 mm, direction of connection 45°
- fittable without loss of poles
- · color gray
- · eccentric lever

# **Technical data**

# r**Ali**us V / A / AWG 600 / 13 / 28 - 14

C Masus V / A / AVVG	000/13/20-	14			
1 mm <sup>2</sup>	750 V / 13.5 A	/T60			
Overvoltage catego	ry	III	III	II	
Pollution degree		3	2	2	
Rated voltage		400 V	800 V	800 V	
Rated test voltage		6.0 kV	6 kV	6.0 kV	
Insulating material	class	CTI 400			
Rated wiring solid v	vire	0.2 - 1.5 mm <sup>2</sup>			
Rated wiring stranded wire		0.2 - 1.5 mm <sup>2</sup>			
Rated wiring solid wire		AWG 28	AWG 28 - 16		
Rated wiring stranded wire		AWG 28	- 16		
Clearance and creepage distances		6.5 mm			
Solder pin dimension		2 x 1.0 x 0.8 mm			
Recommended pc board hole dia.		ø 1.4 mm			
Solder pin length		3.5 mm			
Protection category	according	ID 20			
to IEC 60529		IP 20			
Min. insul. strip leng	gth	6 mm			
Color		gray			



- · spring clamp terminal block, solderable
- centerline 7.50 mm, direction of connection 45°
- · fittable without loss of poles
- · color gray
- · eccentric lever

# **Technical data**

# c Nus V / A / AWG 300 / 13 / 28 - 14

2.5 mm<sup>2</sup> 750 V / 24 A / T60 Overvoltage category Ш П Pollution degree 3 2 2 Rated voltage 500 V 1250 V 1250 V Rated test voltage 6.0 kV 6.0 kV 6 kV CTI 600 Insulating material class Rated wiring solid wire 0.2 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.2 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12

Rated wiring stranded wire AWG 28 - 14
Clearance and creepage distances 6.5 mm
Solder pin dimension 0.8 x 1.0 mm

Solder pin length Protection category according

Recommended pc board hole dia.

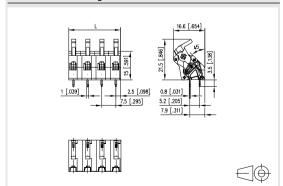
to IEC 60529
Min. insul. strip length

IP 20 6 mm gray

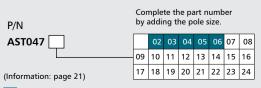
ø 1.4 mm

3.5 mm

# **Dimensional drawing**



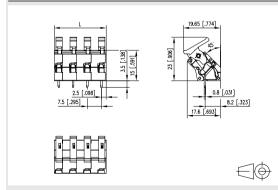
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

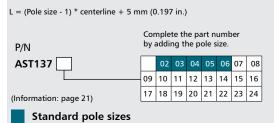


Standard pole sizes

# **Dimensional drawing**

Color













- · spring clamp terminal block, solderable, double solder pins
- centerline 7.50 mm, direction of connection 60°
- · color gray
- push-button

c **N**us V/A/AWG 750/15/28-12

1 mm<sup>2</sup> 250 V / 13.5 A / T60 Overvoltage category Ш П Ш Pollution degree 3 2 Rated voltage 500 V 1250 V 1250 V Rated test voltage 6.0 kV 6.0 kV 6 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 7.12 mm 2 x 0.5 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 4 mm Protection category according IP 20 to IEC 60529 15 mm Min. insul. strip length Color gray



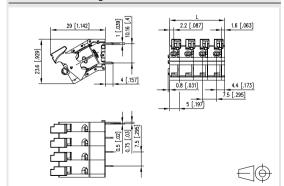
- · spring clamp terminal block, solderable, double solder pins
- centerline 7.50 mm, direction of connection 60°
- · color gray
- · push-button, double solder pins

# Technical data

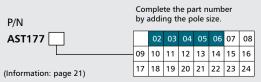
c **Ti**us V / A / AWG 750 / 15 / 28 - 12

	<u>∕sev</u> 1 mm²	250 V / 13.5 A	/ T60		
	Overvoltage categor	y	III	III	II
	Pollution degree		3	2	2
	Rated voltage		500 V	1250 V	1250 V
·····		6.0 kV 6.0 kV 6 kV			
	Insulating material of	lass	CTI 600		
	Rated wiring solid w	/ire	0.08 - 2	.5 mm <sup>2</sup>	
	Rated wiring strand	ed wire	0.08 - 2.5 mm <sup>2</sup>		
	Rated wiring solid w	/ire	AWG 28 - 12		
Rated wiring stranded wire		AWG 28	- 12		
Clearance and creepage distances		7.12 mn	n		
	Solder pin dimensio	n	2 x 0.5 x	1.0 mm	
	Recommended pc b	oard hole dia.	ø 1.4 m	m	
	Solder pin length		4 mm		
	Protection category	according	ID 20		
	to IEC 60529		IP 20		
	Min. insul. strip leng	gth	15 mm		
	Color		gray		

# **Dimensional drawing**

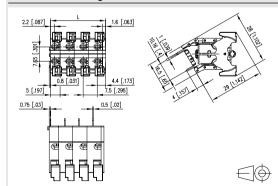


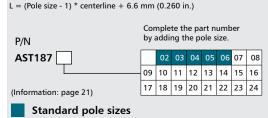
L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)



Standard pole sizes

# **Dimensional drawing**



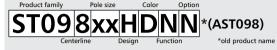












- · spring clamp terminal block, solderable, double solder pins
- centerline 7.62 mm, direction of connection 90°
- · color gray
- · push-button, double solder pins

# c **Ni**us V / A / AWG 600 / 15 / 28 - 12

C Mass V / A / AVVG	000/13/20-	12			
1 mm <sup>2</sup>	250 V / 13.5 A	/T60			
Overvoltage categor	у	III	III	II	
Pollution degree		3	2	2	
Rated voltage		500 V	1250 V	1250 V	
Rated test voltage		6.0 kV	6.0 kV	6 kV	
Insulating material of	lass	CTI 600			
Rated wiring solid wire		0.2 - 2.5 mm <sup>2</sup>			
Rated wiring strand	ed wire	0.2 - 2.5 mm <sup>2</sup>			
Rated wiring solid wire		AWG 28	- 12		
Rated wiring stranded wire		AWG 28	- 12		
Clearance and creep	age distances	7.12 mm			
Solder pin dimensio	n	2 x 1.0 x 0.8 mm			
Recommended pc board hole dia.		ø 1.4 mm			
Solder pin length		3.48 mm			
Protection category to IEC 60529	according	IP 20			
Min. insul. strip leng	yth	15 mm			



- spring clamp terminal block, solderable, double solder pins
- centerline 7.62 mm, direction of connection 60°
- · color gray
- push-button

# **Technical data**

# CNUs V/A/AWG 750/15/28-12

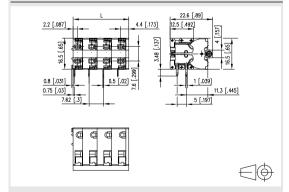
1 mm<sup>2</sup> 250 V / 13.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 500 V 1250 V 1250 V Rated voltage Rated test voltage 6.0 kV 6.0 kV 6 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 7.12 mm 2 x 0.5 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 4 mm Protection category according IP 20 to IEC 60529

15 mm

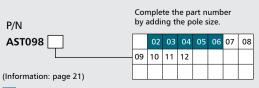
gray

# **Dimensional drawing**

Color



L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)

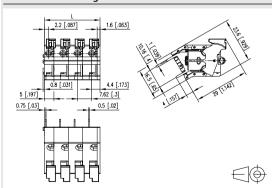


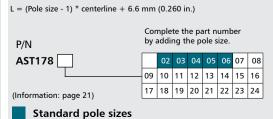
Standard pole sizes

# **Dimensional drawing**

Min. insul. strip length

Color





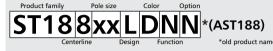






\* Approval pending





- spring clamp terminal block, solderable, double solder pins
- centerline 7.62 mm, direction of connection 60°
- color gray
- push-button, double solder pins

# **Technical data**

**Dimensional drawing** 

2.2 [.087]

5 [.197] 0.75 [.03]

c Nus V/A/AWG 750/15/28-12

1 mm<sup>2</sup> 250 V / 13.5 A / T60 Overvoltage category Ш П Ш Pollution degree 3 2 2 Rated voltage 500 V 1250 V 1250 V Rated test voltage 6.0 kV 6.0 kV 6 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 7.12 mm Solder pin dimension 2 x 0.5 x 1.0 mm Recommended pc board hole dia. ø 1.4 mm Solder pin length 4 mm Protection category according IP 20 to IEC 60529 15 mm Min. insul. strip length Color gray

# nily Pole size Color Option O 8 XX V D N X\*(AST108)

- spring clamp terminal block, solderable, double solder pins
- centerline 7.62 mm, direction of connection vertical 0°
- color gray
- · push-button, double solder pins

# **Technical data**

c Nus V/A/AWG 600/15/28-12

1 mm<sup>2</sup> 250 V / 13.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 Rated voltage 500 V 1250 V 1250 V 6.0 kV 6.0 kV 6 kV Rated test voltage **CTI 600** Insulating material class Rated wiring solid wire 0.2 - 2.5 mm<sup>2</sup> 0.2 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 7.12 mm 2 x 0.5 x 1.0 mm Solder pin dimension

3.4 mm

IP 20

Solder pin length
Protection category according

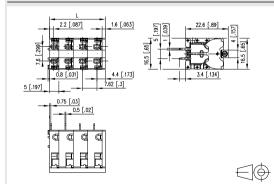
to IEC 60529

Min. insul. strip length 15 mm Color gray

Recommended pc board hole dia. ø 1.4 mm

# **Dimensional drawing**

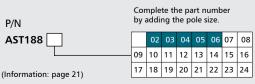
 $\in \bigcirc$ 



L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)

RIA CONNECT BTR NETCOM

L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)





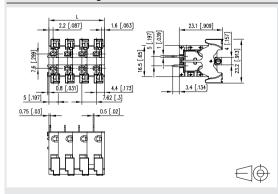


- spring clamp terminal block, solderable, double solder pins
- $\bullet\,$  centerline 7.62 mm, direction of connection vertical  $0^\circ$
- color gray
- finger push-button, double solder pins

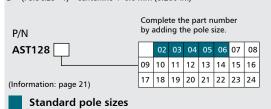
# c **Ni**us V / A / AWG 600 / 15 / 28 - 12

1 mm <sup>2</sup> 250 V / 13.5 A	/ T60				
Overvoltage category	III	Ш	II		
Pollution degree	3	2	2		
Rated voltage	500 V	1250 V	1250 V		
Rated test voltage	6.0 kV	6.0 kV	6 kV		
Insulating material class	CTI 600				
Rated wiring solid wire	0.2 - 2.5	5 mm²			
Rated wiring stranded wire	0.2 - 2.5	5 mm²			
Rated wiring solid wire	AWG 28	AWG 28 - 12			
Rated wiring stranded wire	AWG 28	3 - 12			
Clearance and creepage distances	7.12 mr	n			
Solder pin dimension	2 x 0.5	k 1.0 mm			
Recommended pc board hole dia.	ø 1.4 m	m			
Solder pin length	3.4 mm				
Protection category according	10.20				
to IEC 60529	IP 20				
Min. insul. strip length	15 mm				
Color	gray				

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)











(AST059) \*old product name

- · spring clamp terminal block, solderable
- centerline 10.00 mm, direction of connection 90°
- fittable without loss of poles
- · color black
- eccentric lever

# Technical data

# c **Su**s V / A / AWG 600 / 12 / 28 - 12

2.5 mm<sup>2</sup> 250 V / 10 A / T60 Overvoltage category Ш Ш п Pollution degree 3 2 2 Rated voltage 1600 V 1600 V 630 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 9 mm 1.0 x 0.8 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.1 mm Protection category according **IP 20** 

6 mm

black

# (AST139)

- spring clamp terminal block, solderable
- centerline 10.00 mm, direction of connection 45°
- fittable without loss of poles
- color gray
- eccentric lever

# **Technical data**

# c Nus V / A / AWG 300 / 13 / 28 - 14

2.5 mm<sup>2</sup> 800 V / 24 A / T60 Overvoltage category Ш п Pollution dearee 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 600 Insulating material class Rated wiring solid wire 0.2 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.2 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 9 mm

0.8 x 1.0 mm

ø 1.4 mm

3.5 mm

Solder pin length Protection category according to IEC 60529 Min. insul. strip length

Recommended pc board hole dia.

Solder pin dimension

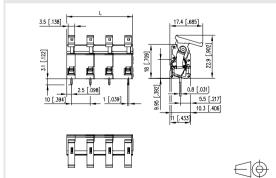
IP 20 6 mm gray

# **Dimensional drawing**

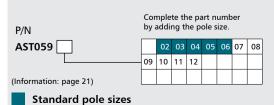
Min. insul. strip length

to IEC 60529

Color

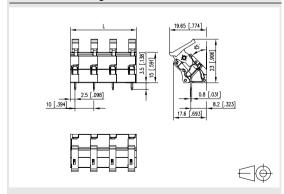


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

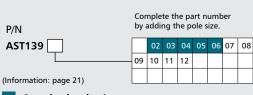


# **Dimensional drawing**

Color



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)







for SP051xxVGNN Page FT091xxHGBN (Type 374) 145

PT091xxVGBN (Type 373) 145



- · spring clamp terminal block, pluggable
- centerline 2.50 mm, direction of connection vertical  $0^{\circ}$
- · color green
- · push-button, wire entry uncodeable side parallel to plug direction

# Technical data

c Tius V / A / AWG 150 / 5 / 28 - 20

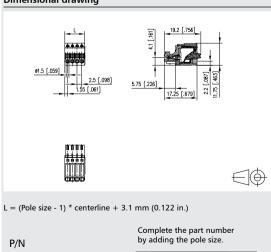
6 A / 80 V / 2.5 kV / 3 / 0.08 - 0.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution degree 3 2 2 Rated voltage 80 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class

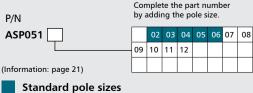
Rated wiring solid wire 0.08 - 0.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 0.5 mm<sup>2</sup> AWG 28 - 20 Rated wiring solid wire AWG 28 - 20 Rated wiring stranded wire Clearance and creepage distances 1.7 mm

Protection category according

IP 20 to IEC 60529 Min. insul. strip length 8 mm Color green

# **Dimensional drawing**







PC board terminal blocks

Page

# **Pin Headers** for SP043xxVBNN

PR043xxHBBN (Type 188)	146
PT093xxHBBN (Type 342)	149
PR043xxVBBN (Type 189)	151
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# **Pin Headers**

for SW063xxVBNN	Page
PW063xxHBEC (Type 527)	147

- PW063xxHBBN (Type 523) 148
- PW063xxVBEC (Type 528) 152







- · spring clamp terminal block, pluggable
- centerline 3.50 mm, direction of connection vertical 0°
- · color black
- eccentric lever, wire entry uncodeable side parallel to plug direction

# Technical data

c <b>%</b> Us V /	A / AWG	150	) / 10 / 28	3 - 16	
<b>SEX</b> 10	A / 130 V / 2.5 kV / 3	/ 0.	08 - 1.5 เ	mm² / IEC	61984
Overvoltag	ge category		Ш	Ш	II
Pollution of	legree		3	2	2
Rated volta	age		160 V	320 V	320 V
Rated test	voltage		2.5 kV	2.5 kV	2.5 kV
Insulating	material class		CTI 400		
Rated wiri	ng solid wire		0.08 - 1	.5 mm²	
Rated wiri	ng stranded wire		0.08 - 1	.5 mm²	
Rated wiri	ng solid wire		AWG 28	i - 16	
Rated wiri	ng stranded wire		AWG 28	3 - 16	
Clearance	and creepage distand	ces	2.3 mm		
to IEC 605	=-		IP 20		
Min. insul.	strip length		6 mm		

black



\* Approval pending



- spring clamp terminal block, pluggable
- centerline 3.50 mm, direction of connection vertical 0°
- color black
- push-button, wire entry uncodeable side parallel to plug direction

# **Technical data**

c Rus V / A / AWG 150 / 8 / 28 - 16

\* 8 A / 130 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution degree 2 2 Rated voltage 125 V 320 V 320 V

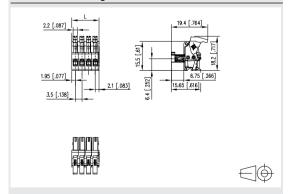
Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 1.9 mm

Protection category according

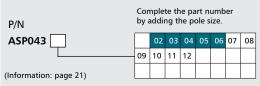
IP 20 to IEC 60529 Min. insul. strip length 9 mm Color black

# **Dimensional drawing**

Color

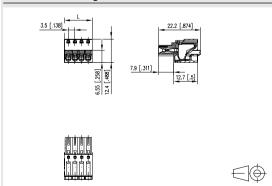


L = (Pole size - 1) \* centerline + 4 mm (0.157 in.)

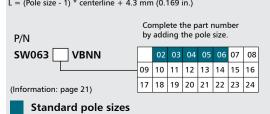


Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 4.3 mm (0.169 in.)







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# **Pin Headers** for SP063xxVGNN

PR043xxHBBN (Type 188) 146 **PT093xxHBBN (Type 342)** 149 PR043xxVBBN (Type 189) 151

PT093xxVBBN (Type 343) 154

## Pin Headers

for SP063xxVGNE Page PR043xxHBBF (Type 388) PT093xxHBBF (Type 394) 149

PR043xxVBBF (Type 389) 151



\* Approval pending





- · spring clamp terminal block, pluggable
- centerline 3.50 mm, direction of connection vertical 0°
- · color green
- push-button, wire entry uncodeable side parallel to plug direction

# Technical data

c Tius V / A / AWG 150 / 8 / 28 - 16

8 A / 130 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution dearee 2 2 3 Rated voltage 125 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 1.9 mm Protection category according IP 20 to IEC 60529 9 mm Min. insul. strip length Color green



\* Approval pending





- spring clamp terminal block, pluggable
- centerline 3.50 mm, direction of connection vertical 0°
- color green, mounting flange
- push-button, wire entry uncodeable side parallel to plug

# Technical data

c**W**us V / A / AWG 150 / 8 / 28 - 16

\* 8 A / 130 V / 2.5 kV / 3 / 0.08 - 1.5 mm² / IEC 61984 Overvoltage category Ш Ш ш

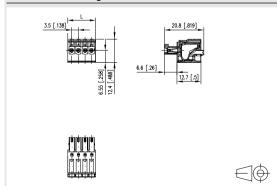
Pollution dearee 2 2 Rated voltage 125 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 28 - 16 Rated wiring stranded wire

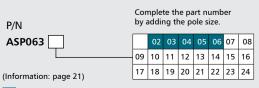
Clearance and creepage distances 1.9 mm

Protection category according IP 20 to IEC 60529 9 mm Min. insul. strip length Color green

# **Dimensional drawing**

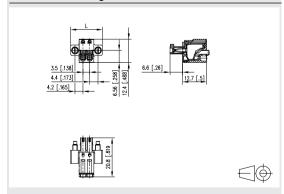


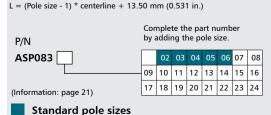
L = (Pole size - 1) \* centerline + 4.3 mm (0.169 in.)



Standard pole sizes

## Dimensional drawing









for SP044xxVBNN	Page
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PT094xxVBBN (Type 383) 158

### Accessories Page

for SP064xxVGNN 700025 298







- · spring clamp terminal block, pluggable
- centerline 3.81 mm, direction of connection vertical 0°
- · color black
- eccentric lever, wire entry uncodeable side parallel to plug direction

# Technical data

c**TL**us V / A 150 / 10

10 A / 130 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution dearee 3 2 2 Rated voltage 160 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 400 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 2.6 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 6 mm Color black







- spring clamp terminal block, pluggable
- centerline 3.81 mm, direction of connection vertical 0°
- color green
- push-button, wire entry uncodeable side parallel to plug direction

# Technical data

c Rus V / A / AWG 150 / 8 / 28 - 16

9 A / 130 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution dearee 2 2

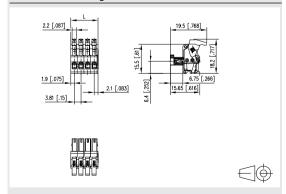
Rated voltage 125 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 28 - 16 Rated wiring stranded wire

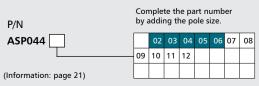
Clearance and creepage distances 1.9 mm

Protection category according IP 20 to IEC 60529 Min. insul. strip length 9 mm Color green

# **Dimensional drawing**

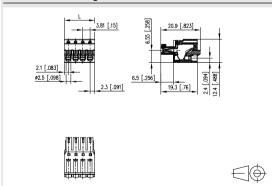


L = (Pole size - 1) \* centerline + 4 mm (0.157 in.)

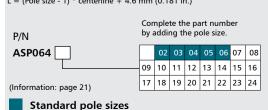


Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 4.6 mm (0.181 in.)









# Pin Headers for SP064xxVGNF

PR044xxHBBF (Type 390) 155

PT094xxHBBF (Type 392) 156

PR044xxVBBF (Type 391) 157

PT094xxVBBF (Type 393) 1

# Accessories Page

for **SP064xxVGNF 700025**298



- spring clamp terminal block, pluggable
- centerline 3.81 mm, direction of connection vertical 0°
- color green, mounting flange
- push-button, wire entry uncodeable side parallel to plug direction

# **Technical data**

c**Al**us V / A / AWG 150 / 8 / 28 - 16

9 A / 130 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category III III II

 Pollution degree
 3
 2
 2

 Rated voltage
 125 V
 320 V
 320 V

 Rated test voltage
 2.5 kV
 2.5 kV
 2.5 kV

Insulating material class CTI 600
Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup>

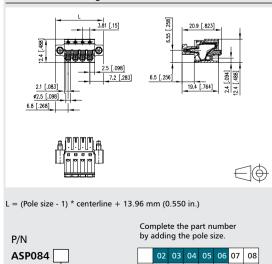
Rated wiring stranded wire 0.08 - 1.5 mm²
Rated wiring solid wire AWG 28 - 16
Rated wiring stranded wire AWG 28 - 16

Clearance and creepage distances 1.9 mm

Protection category according to IEC 60529 IP 20 Min. insul. strip length 9 mm

Color green

# **Dimensional drawing**



09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24





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PT055xxHBHC (Type 039)	163
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# **Pin Headers**

for SP145xxHBNC	Page
PR035xxVBHC (Type 046)	168



(ASP025) \*old product name

- · spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- fittable without loss of poles
- · eccentric lever, wire entry perpendicular to plug direction

# Technical data

c Wus V / A / AWG 300 / 8 / 28 - 16 10 A / 250 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution dearee 3 2 2 Rated voltage 250 V 500 V 500 V Rated test voltage 4.0 kV 4 kV 4.0 kV CTI 400 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 0.75 mm<sup>2</sup> AWG 28 - 16

Rated wiring solid wire AWG 28 - 18 Rated wiring stranded wire Clearance and creepage distances 3.7 mm Protection category according

IP 20 to IEC 60529 Min. insul. strip length 4 mm Color gray

# (ASP145)

- spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- fittable without loss of poles
- color black
- push-button, wire entry perpendicular or parallel to plug direction, three plugging directions

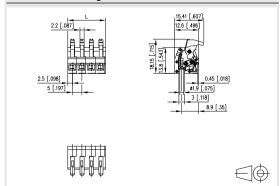
# Technical data

c Tius V / A / AWG 300 / 6 / 28 - 16 13.5 A / 250 V / 4 kV / 3 / 0.08 - 1.5 mm² / IEC 61984 Overvoltage category Ш Ш Pollution degree 3 2 2 630 V Rated voltage 250 V 630 V Rated test voltage 2.5 kV 6 kV 4 kV Insulating material class CTI 225 Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 16 Rated wiring stranded wire AWG 28 - 16

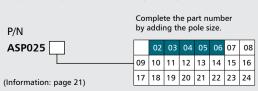
Clearance and creepage distances 3.2 mm Protection category according

to IEC 60529 IP 20 7 mm Min. insul. strip length black Color

# **Dimensional drawing**

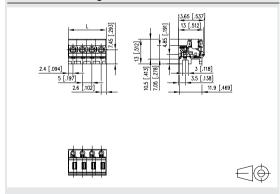


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

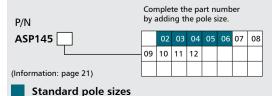


Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)





# CONNECT

# **Pin Headers**

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700025

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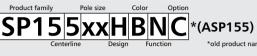
PT115xxVBBN (Type 320) 174

**H** PT165xxVGDN (Type 274) 175

PT175xxVGDN (Type 270) 175







- · spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- · fittable without loss of poles
- · color black
- push-button,wire entry perpendicular or parallel to plug direction, three plugging directions, clip system for mounting into a housing

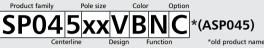
# **Technical data**

c <b>Al'</b> us V / A / AWG	300 / 6 / 28 - 16	
13.5 A / 250 V / 4 kV / 3	/ 0.08 - 1.5 mm² / IEC 6 <sup>-1</sup>	1984
Overvoltage category	III III II	
Pollution degree	3 2 2	
Rated voltage	250 V 630 V 63	30 V
Rated test voltage	4.0 kV 4.0 kV 4	kV
Insulating material class	CTI 600	
Rated wiring solid wire	0.08 - 1.5 mm <sup>2</sup>	
Rated wiring stranded wire	0.08 - 1.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 28 - 16	
Rated wiring stranded wire	AWG 28 - 16	
Clearance and creepage distance	es 3.2 mm	
Protection category according	ID 20	
to IEC 60529	IP 20	
Min. insul. strip length	7 mm	
Color	black	



\* Approval pending





- spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- eccentric lever, wire entry uncodeable side parallel to plug direction

# **Technical data**

 \*\*\* V / A / AWG
 300 / 10 / 28 - 16

 \*\*\* 10 A / 250 V / 4 kV / 3 / 0.08 - 1 mm² / IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 250 V
 500 V
 500 V

AWG 28 - 16

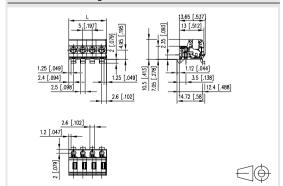
AWG 28 - 16

Rated wiring stranded wire AWG : Clearance and creepage distances 4 mm Protection category according

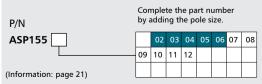
Rated wiring solid wire

to IEC 60529 IP 20 Min. insul. strip length 4 mm Color black

# **Dimensional drawing**

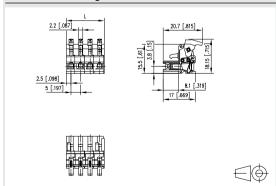


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)





for SP065xxVBNC	Page
PR065xxHBEC (Type 476)	159
PR065xxHBBN (Type 176)	159
PR075xxHBEL (Type 337)	160
PR075xxHBER (Type 338)	161
PT105xxHGDN (Type 280)	163

PT115xxHBEC (Type 329)	164
PT115xxHBBN (Type 330)	164

PT165xxHGDN (Type 276)	165
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PR065xxVBEC (Type 477)	169
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PT105xxVGDN (Type 278) 1	73
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#	PT115xxVBBN (Type 320)	174
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PT165xxVGDN (Type 274)	175
PT175xxVGDN (Type 270)	175

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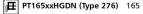
# **Pin Headers**

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Æ	PT105xxHGDN (Type 280)	163

PT115xxHBEC (Type 329)	164

PT115xxHBBN (Type 330)
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PR065xxVBEC (Type 477) 169

PR065xxVBBN (Type 177) 169

PT105xxVGDN (Type 278) 173

PT115xxVBBN (Type 320) 174

PT165xxVGDN (Type 274) 175

PT175xxVGDN (Type 270) 175

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\* Approval pending





- · spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- push-button, wire entry uncodeable side parallel to plug

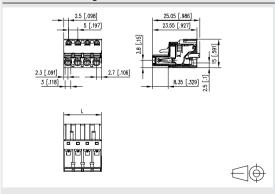
# **Technical data**

<b>5</b> 1.	
	00 / 12 / 28 - 12
12 A / 250 V / 4 kV / 3 / 0	0.08 - 2.5 mm <sup>2</sup> / IEC 61984
Overvoltage category	111 111 11
Pollution degree	3 2 2
Rated voltage	250 V 630 V 630 V
Rated test voltage	4.0 kV 4.0 kV 4 kV
Insulating material class	CTI 600
Rated wiring solid wire	0.08 - 2.5 mm <sup>2</sup>
Rated wiring stranded wire	0.08 - 2.5 mm <sup>2</sup>
Rated wiring solid wire	AWG 28 - 12
Rated wiring stranded wire	AWG 28 - 12
Clearance and creepage distance	es 3.5 mm
Protection category according	
to IEC 60529	IP 20
Min. insul. strip length	10 mm

black

# **Dimensional drawing**

Color



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

P/N	Complete the part number by adding the pole size.							
SP065 VBNC		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 21)	17	18	19	20	21	22	23	24

Standard pole sizes



\* Approval pending





- spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- finger push-button, wire entry uncodeable side parallel to plug direction

# **Technical data**

c Tius V / A / AWG 300 / 12 / 28 - 12

12 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984

Overvoltage category Ш Ш Pollution degree 3 2 2 630 V Rated voltage 250 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV Insulating material class **CTI 600** 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire

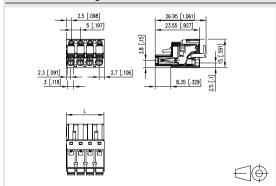
AWG 28 - 12

AWG 28 - 12

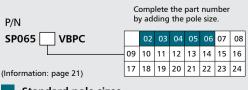
Rated wiring solid wire Rated wiring stranded wire Clearance and creepage distances 3.5 mm Protection category according

IP 20 to IEC 60529 10 mm Min. insul. strip length black Color

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)





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PR065xxHBBF (Type 396)	160
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# Pin Headers

PR065xxHBBF (Type 396)	160
FT115xxHBBF (Type 336)	165
PR065xxVBBF (Type 397)	170
H PT115xxVBBF (Type 335)	174

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\* Approval pending





- · spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- · color black, mounting flange
- push-button, wire entry uncodeable side parallel to plug direction

# Technical data

c Tus V / A / AWG 300 / 12 / 28 - 12 12 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution dearee 2 2 3 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 3.5 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 10 mm

black



\* Approval pending



Product family Pole size Color Option

SP065 XXV BPF

Centerline Design Function

- spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- color black, mounting flange
- finger push-button, wire entry uncodeable side parallel to plug direction

# **Technical data**

c**Al**us V / A / AWG 300 / 12 / 28 - 12

12 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 250 V
 630 V
 630 V

 Rated test voltage
 4.0 kV
 4.0 kV
 4 kV

 Insulating material class
 CTI 600
 CTI 600

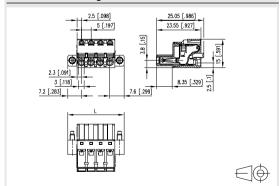
Rated wiring solid wire 0.08 - 2.5 mm²
Rated wiring stranded wire 0.08 - 2.5 mm²
Rated wiring solid wire AWG 28 - 12
Rated wiring stranded wire AWG 28 - 12

Clearance and creepage distances 3.5 mm Protection category according

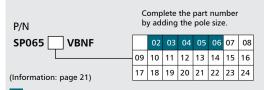
to IEC 60529 IP 20
Min. insul. strip length 10 mm
Color black

# **Dimensional drawing**

Color

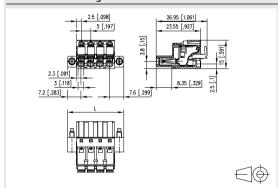


L = (Pole size - 1) \* centerline + 14.8 mm (0.583 in.)

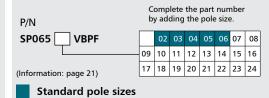


Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.8 mm (0.583 in.)







Page

# **Pin Headers** for SP995xxVBNC

PR065xxHBEC (Type 476)	159
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PT105xxHGDN (Type 280) 163

FT115xxHBEC (Type 329) 164 FT115xxHBBN (Type 330) 164

**PT165xxHGDN (Type 276)** 165

PR065xxVBEC (Type 477) 169

PR065xxVBBN (Type 177) 169

PT045xxVBBN (Type 020) 171

PT105xxVGDN (Type 278) 173

PT115xxVBEC (Type 319) 173

PT115xxVBBN (Type 320) 174

PT165xxVGDN (Type 274) 175

PT175xxVGDN (Type 270) 175

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\* Approval pending

- · spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black
- · two connections per pole

# Technical data

c Sus V/A/AWG

10.5 A / 250 V / 4 kV / 3 / 0.2 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш П Pollution degree 2 2 3 Rated voltage 250.0 V 630.0 V 630.0 V

250 / 10.5 / 24 - 14

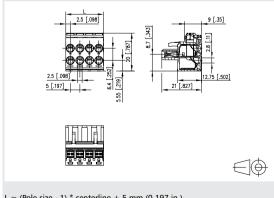
black

Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class 0.2 - 2.5 mm<sup>2</sup> Rated wiring solid wire Rated wiring stranded wire 0.2 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 24 - 14 AWG 24 - 12 Rated wiring stranded wire Clearance and creepage distances 3.2 mm

Protection category according IP 20 to IEC 60529 Min. insul. strip length 9 mm

# **Dimensional drawing**

Color



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)





# CONNECT

# **Pin Headers**

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PR066xxHBEC (Type 478)	176
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PT116xxHBEC (Type 229)	177
PT116xxHBBN (Type 230)	178
PT166xxHGDN (Type 288)	179
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PT116xxVBBN (Type 220)	184

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\* Approval pending





- · spring clamp terminal block, pluggable
- centerline 5.08 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- eccentric lever, wire entry uncodeable side parallel to plug direction

# **Technical data**

c <b>Ni</b> us V / A / AWG	300 / 10 / 28	- 16	
* 10 A / 250 V / 4 kV / 3	/ 0.08 - 1 mm	<sup>2</sup> / IEC 61	984
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	250 V	500 V	500 V
Rated test voltage	4.0 kV	4 kV	4.0 kV
Insulating material class	CTI 400	ı	
Rated wiring solid wire	0.08 - 1	.5 mm <sup>2</sup>	
Rated wiring stranded wire	0.08 - 1	.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 2	8 - 16	
Rated wiring stranded wire	AWG 2	8 - 16	
Clearance and creepage dista	nces 4 mm		
Protection category according			
to IEC 60529	IP 20		
Min. insul. strip length	4 mm		
Color	black		

# 0.0.0.0.0

\* Approval pending



Product family Pole size Color Option

SP06 6 XX V B N C

Centerline Design Function

- spring clamp terminal block, pluggable
- centerline 5.08 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- push-button, wire entry uncodeable side parallel to plug direction

# **Technical data**

c**Ni**us V / A / AWG 300 / 12 / 28 - 12

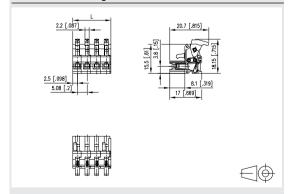
12 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984

Overvoltage category Ш Ш 2 Pollution degree 3 2 250 V 630 V 630 V Rated voltage Rated test voltage 4.0 kV 4.0 kV 4 kV Insulating material class **CTI 600** 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire AWG 28 - 12 Rated wiring solid wire Rated wiring stranded wire AWG 28 - 12 Clearance and creepage distances 3.58 mm

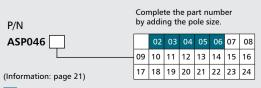
Protection category according to IEC 60529

to IEC 60529 IP 20 Min. insul. strip length 10 mm Color black

# **Dimensional drawing**

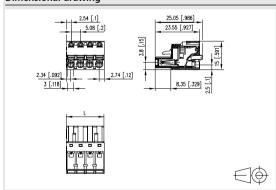


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)

P/N Complete the part number by adding the pole size.								
SP066 VBNC		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 21)	17	18	19	20	21	22	23	24
Standard polo sizos								





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PT116xxVBBF (Type 235)	184

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\* Approval pending





- spring clamp terminal block, pluggable
- centerline 5.08 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- finger push-button, wire entry uncodeable side parallel to plug direction

# Technical data

c Nius V / A / AWG 3	00 / 12	2 / 28 -	- 12	
12 A / 250 V / 4 kV / 3 /	0.08 -	2.5 m	m² / IEC 6	51984
Overvoltage category	III	l	Ш	II
Pollution degree	3		2	2
Rated voltage	2	50 V	630 V	630 V
Rated test voltage	4.	.0 kV	4.0 kV	4 kV
Insulating material class	C	TI 600		
Rated wiring solid wire	0.	.08 - 2	.5 mm²	
Rated wiring stranded wire	0.	.08 - 2	.5 mm²	
Rated wiring solid wire	Α	WG 28	3 - 12	
Rated wiring stranded wire	Α	WG 28	3 - 12	
Clearance and creepage distant	es 3	.58 mr	n	
Protection category according				
to IEC 60529	IP	20		
Min. insul. strip length	1	0 mm		
Color	b	lack		

\* Approval pending



SP066xxVBNF

Centerline Design Function

- spring clamp terminal block, pluggable
- $\bullet\,$  centerline 5.08 mm, direction of connection vertical  $0^\circ$
- color black, mounting flange
- push-button, wire entry uncodeable side parallel to plug direction

# **Technical data**

c **Nu**s V / A / AWG 300 / 12 / 28 - 12

12 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984

Overvoltage category III III II

Pollution degree 3 2 2
Rated voltage 250 V 630 V 630 V
Rated test voltage 4.0 kV 4.0 kV 4 kV

Insulating material class

Rated wiring solid wire

Rated wiring stranded wire

Rated wiring solid wire

Rated wiring solid wire

Rated wiring stranded wire

AWG 28 - 12

Rated wiring stranded wire

Clearance and creepage distances

AWG 28 - 12

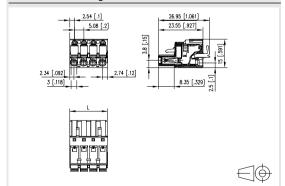
AWG 28 - 12

AWG 28 - 12

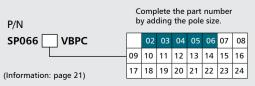
Protection category according

to IEC 60529 IP 20
Min. insul. strip length 10 mm
Color black

# **Dimensional drawing**

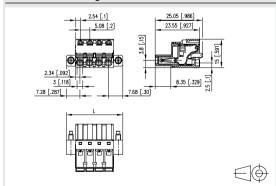


L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)



Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.96 mm (0.589 in.)

P/N by adding the pole s								
SP066 VBNF		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 21)	17	18	19	20	21	22	23	24
Standard pole sizes								





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\* Approval pending





- · spring clamp terminal block, pluggable
- $\bullet$  centerline 5.08 mm, direction of connection vertical  $0^\circ$
- · color black, mounting flange
- · finger push-button, wire entry uncodeable side parallel to plug direction

# Technical data

c Tius V / A / AWG 300 / 12 / 28 - 12

12 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution degree 3 2 2

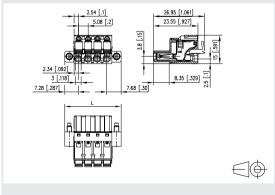
Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV

CTI 600 Insulating material class

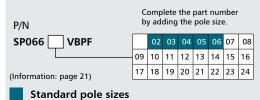
Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 Rated wiring solid wire AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 3.58 mm

Protection category according IP 20 to IEC 60529 Min. insul. strip length 10 mm Color black

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.96 mm (0.589 in.)







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PT119xxVBBF (Type 335)

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### Accessories Page for SP129xxVBNF

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\* Approval pending





- · spring clamp terminal block, pluggable
- centerline 10.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- · eccentric lever, wire entry uncodeable side parallel to plug

# **Technical data**

c Wus V / A / AWG 300 / 8 / 28 - 16 10 A / 630 V / 6 kV / 3 / 0.08 - 1 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Pollution degree 3 2 2 1250 V 1250 V Rated voltage 630 V Rated test voltage 8.0 kV 8 kV 8.0 kV Insulating material class **CTI 400** 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire 0.08 - 1 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 16 Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 9 mm Protection category according IP 20 to IEC 60529 4 mm Min. insul. strip length

black



\* Approval pending



\*(ASP129)

- spring clamp terminal block, pluggable
- centerline 10.00 mm, direction of connection vertical 0°
- color black, mounting flange
- eccentric lever, wire entry uncodeable side parallel to plug direction

# Technical data

c Rus V / A / AWG 300 / 10 / 28 - 12

12 A / 630 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984

Overvoltage category Ш Ш ш Pollution degree 2 2 Rated voltage 800 V 1600 V 1600 V Rated test voltage 8.0 kV 8 kV 8.0 kV

CTI 400 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 Rated wiring solid wire AWG 28 - 12 Rated wiring stranded wire

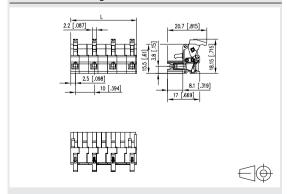
Clearance and creepage distances 11 mm Protection category according

to IEC 60529 Min. insul. strip length Color

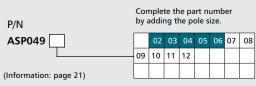
IP 20 9 mm black

# **Dimensional drawing**

Color

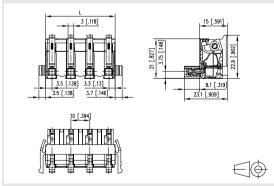


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

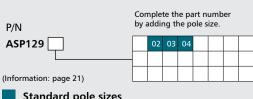


Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 6.8 mm (0.268 in.)





\*old product name



# **Pin Headers**

for SP04AxxVBNC	Page
PT11AxxHBEC (Type 229)	192
FT11AxxHBBN (Type 230)	192
PT11AxxVBEC (Type 219)	193
PT11AxxVBBN (Type 220)	194

### Accessories Page

for SP04AxxVBNC 700025 298





- · spring clamp terminal block, pluggable
- centerline 10.16 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black
- · eccentric lever, wire entry uncodeable side parallel to plug direction

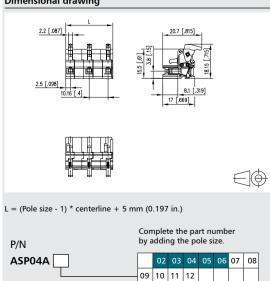
# **Technical data**

0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 / 10 A

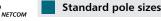
Overvoltage category Ш П Pollution degree 3 2 Rated voltage 630 V 1250 V 1250 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 400 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 9.16 mm Protection category according IP 20 to IEC 60529 4 mm Min. insul. strip length Color black

# **Dimensional drawing**

(Information: page 21)



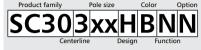












- · spring clamp terminal block, pluggable
- centerline 3.50 mm, direction of connection vertical 90°
- · color black

c Nus V / A / AWG 150 / 4 / 28 - 16 1.5 mm<sup>2</sup> 130 V / 4A / T60 Overvoltage category П Pollution degree 2 2 Rated voltage 400 V 400 V 160 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class CTI 600 Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 2.4 mm Protection category according IPOO to IEC 60529 Min. insul. strip length 7.5 mm

black





- spring clamp terminal block, solderable
- centerline 3.50 mm, direction of connection vertical 90°
- · color black

# Technical data

c Wus V / A / AWG 150 / 4 / 28 - 16 1.5 mm<sup>2</sup> 130 V / 4A / T60

Overvoltage category Ш Pollution degree Rated voltage 160 V 400 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class **CTI 600** Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire AWG 28 - 16 Rated wiring solid wire Rated wiring stranded wire AWG 28 - 16

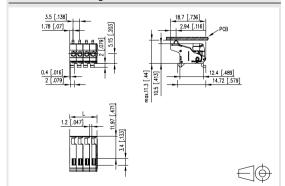
Clearance and creepage distances 2.4 mm 3.95 mm Solder pin dimension Protection category according to IEC 60529

Min. insul. strip length Color

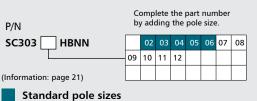
IP00 7.5 mm black

# **Dimensional drawing**

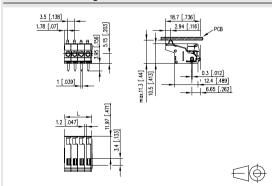
Color



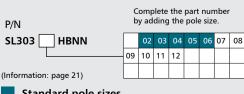
L = (Pole size - 1) \* centerline + 4,5 mm (0.177 in.)



# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 4,5 mm (0.177 in.)









\* Approval pending



Product family Pole size Color Option

SC305 xxH B N N

Centerline Design Function

- · spring clamp terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- color black

# **Technical data**

c**N**us V/A/AWG 250/4/28-16

4 A / 250 V / 4 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 250 V
 630 V
 630 V

 Rated test voltage
 4.0 kV
 4.0 kV
 4 kV

Insulating material class

Rated wiring solid wire

Rated wiring stranded wire

Rated wiring stranded wire

Rated wiring solid wire

Rated wiring stranded wire

Rated wiring stranded wire

Rated wiring stranded wire

Clearance and creepage distances

Protection category according

Min. insul. strip length

Color black



\* Approval pending



Product family Pole size Color Option

SL30 5 XX H B N N

Centerline Design Function

- spring clamp terminal block, solderable
- centerline 5.00 mm, direction of connection vertical  $0^{\circ}$
- · color black

# Technical data

c Wus\* V/A/AWG 250/4/28 - 16

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 250 V
 630 V
 630 V

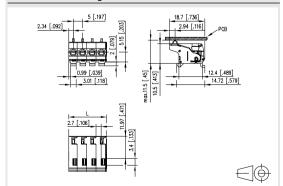
Rated voltage 230 V 030 V 030 V 130 V 130

Rated wiring solid wire AWG 28 - 16
Rated wiring stranded wire AWG 28 - 16
Clearance and creepage distances 3.2 mm
Solder pin dimension 1.0 x 0.3 mm

Solder pin dimension 1.0 x 0.3 r Recommended pc board hole dia. Ø 1.2 mm Solder pin length 3.95 mm Protection category according

to IEC 60529 IP 20 Min. insul. strip length 7.5 mm Color black

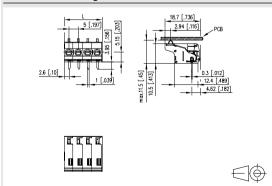
# **Dimensional drawing**



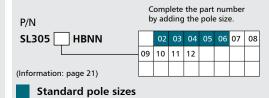
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

















# **SM99S**

- · spring clamp terminal block, SMT solderable
- direction of connection 90°
- fittable without loss of poles
- · color black
- Tape & Reel packaging
- finger push-button
- · test point and wire connection indicator
- Variants: black, creme white, yellow, green, red, blue

# Technical data

c**Fli**us A / AWG 9 / 24 - 16

0.2 - 0.75 mm<sup>2</sup>

Rated wiring solid wire 0.2 - 1.5 mm<sup>2</sup> 0.2 - 1.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 24 - 16 AWG 24 - 16 Rated wiring stranded wire

Protection category according

**IP 20** to IEC 60529 7 mm Min. insul. strip length Color black

# Drill pattern



# **Dimensional drawing**









P/N	Color	Feature 1	Feature 2	EAN
SM99S01VBNN00G7	black			4250184193647
SM99S01VBNN01G7	white			4250184193654
SM99S01VBNN02G7	yellow			4250184193661
SM99S01VBNN03G7	green			4250184193722
SM99S01VBNN04G7				4250184193678
SM99S01VBNN05G7	blue			4250184193715













# **SR99S**

- spring clamp terminal block, THR solderable, double solder pins
- direction of connection 90°
- fittable without loss of poles
- color black
- Tape & Reel packaging
- · finger push-button
- test point and wire connection indicator
- · Variants: black, creme white, yellow, green, red, blue

# **Technical data**

c**Al'**us A/AWG 9 / 24 - 16 0.2 - 0.75 mm<sup>2</sup>

Rated wiring solid wire 0.2 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.2 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 24 - 16 Rated wiring stranded wire AWG 24 - 16 2 x 1.3 x 0.4 mm Solder pin dimension Recommended pc board hole dia. ø 1.6 mm 2.4 mm Solder pin length

Protection category according

IP 20 to IEC 60529 7 mm Min. insul. strip length black Color

**Drill pattern** 



# **Dimensional drawing**









P/N	Color	Feature 1	Feature 2	EAN
SR99S01VBNN00G7	black			4250184193692
SR99S01VBNN01G7	white			4250184193739
SR99S01VBNN02G7	yellow			4250184193746
SR99S01VBNN03G7	green			4250184193708
SR99S01VBNN04G7				4250184193753
SR99S01VBNN05G7	blue			4250184193760









# SM01W

- · spring clamp terminal block, SMT solderable
- direction of connection vertical 0°
- · Tape & Reel packaging
- Variants: 7" Reel, 13" Reel, 15" Reel, each variant for mounting soldering side or mounting component side

# Technical data

 $0.1 - 0.75 \ mm^2 \ AWG \ 26 - 18 \ / \ 13 \ A$ 

Overvoltage category Ш Ш Pollution degree 3 2 2 1600 V 1600 V Rated voltage 630 V Rated test voltage 6 kV 6 kV 8 kV

0.1 - 0.75 mm<sup>2</sup>

AWG 26 - 18

Rated wiring solid wire Rated wiring solid wire Protection category according

to IEC 60529

IP 00 Min. insul. strip length 4 mm





# SM01Y

- · spring clamp terminal block, SMT solderable
- direction of connection vertical 0°
- Tape & Reel packaging
- Variants: 7" Reel, 13" Reel, 15" Reel, each variant for mounting soldering side or mounting component side

# **Technical data**

0.75 - 1.5 mm<sup>2</sup> AWG 18 - 16 / 13 A

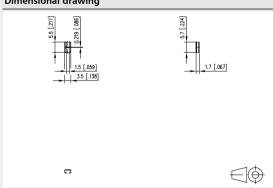
Ш Overvoltage category Pollution degree 3 2 2 630 V 1600 V 1600 V Rated voltage Rated test voltage 8 kV 6 kV 6 kV

Rated wiring solid wire 0.75 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 18 - 16

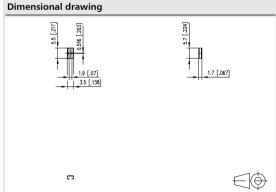
Protection category according to IEC 60529

IP 00 Min. insul. strip length 4 mm

# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
ASM01W0164- 0G16		15 " Reel	Mounting soldering side	4250184183945
ASM01W0164- 1G16		15 " Reel	Mounting compo- nent side	4250184183952
ASM01W0164- 2G16		7 " Reel	Mounting soldering side	4250184183969
ASM01W0164- 3G16		7 " Reel	Mounting compo- nent side	4250184183976
ASM01W0164- 4G16		13 " Reel	Mounting soldering side	4250184183983
ASM01W0164- 5G16		13 " Reel	Mounting compo- nent side	4250184183990



P/N	Color	Feature 1	Feature 2	EAN
ASM01Y0164- 0G16		15 " Reel	Mounting soldering side	4250184184027
ASM01Y0164- 1G16		15 " Reel	Mounting compo- nent side	4250184184034
ASM01Y0164- 2G16		7 " Reel	Mounting soldering side	4250184184041
ASM01Y0164- 3G16		7 " Reel	Mounting compo- nent side	4250184184058
ASM01Y0164- 4G16		13 " Reel	Mounting soldering side	4250184184065
ASM01Y0164- 5G16		13 " Reel	Mounting compo- nent side	4250184184072



# **U** Contact

# Screw-type terminal blocks

# **Design specification**

# Terminal body

The terminal bodies consist of a copper wrought alloy. The surface is galvanically nickel-plated. With the types with soldering pin, the surface is given a galvanic nickel base and tin-plated to generate high corrosion resistance and superb soldering ability. All terminal bodies are installed in the insusulation housing to ensure that they cannot be lost.



# **Terminal screws**

The terminal screws in M2–M4 can optionally be produced in different materials. The screws are rounded at the pressure areas, meaning that it is possible to connect the conductor without wire protection. Usually the screws are secured against unwanted loosening themselves.

# Contact systems for the METZ CONNECT plug system

a) Lamella contacts

The lamella contacts are silver plated, optionally tinplated or gold-plated and are suitable for rounded pins. The lamella-like design of the contact bars means that currents of up to 10 A can be transferred. Even after the 100th plugging, the transfer resistance between the jack contact and the pin header is  $\leq 5~\text{m}\Omega.$ 

b) Plug system with integrated contact The tulip-shaped plug system is made of bronze and is suited for both round and square pins.

# Wire protector

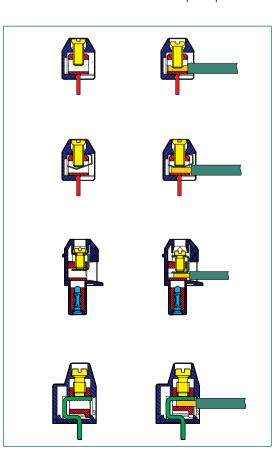
The wire protector prevents damage to the conductors during terminal connection.

# Rising wire protector

Some types are equipped with a rising wire protector that works according to the principle of the lift system. When the screw is turned, the wire protector lifts parallel to the base of the terminal body.

# Lift system

Through the lift effect of the terminal body, the conductor is clamped over a large area and in parallel. A damage to the conductor by the screw is entirely eliminated here too.



# **U** Contact

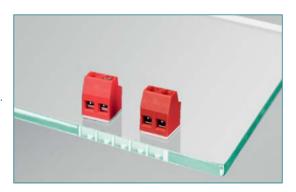
# Screw-type terminal blocks

# **Printing options**

We offer individual printing of your terminal blocks. Figures or symbols, left- or right flush, legible or standing on their head depending on the technical feasibility. Ink-jet print, pad printing and hot stamping are available as methods. Design your individual terminal block with us.

# Color options

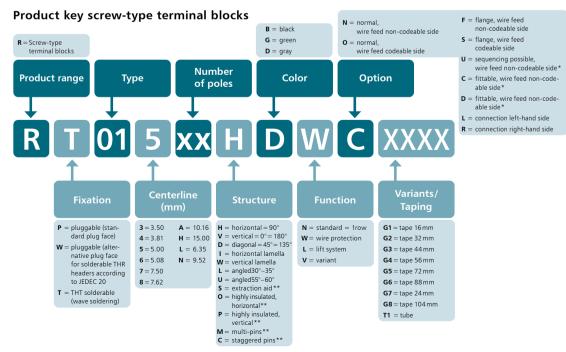
You can order the terminal blocks in a variety of basic colors. This is for instance helpful in housing integration to achieve an optically attractive overall picture or to use this as a further coding option. We would be pleased to advise you on the possible colors.



# Torques - Extract from DIN EN 60947-1 and DIN EN 60999-1

Start-up torque for documenting the mechanical rigidity of screw connections.

Thread diameter (mm)				Tightening	torque (Nm)		
Metric standard value	[	Diame <sup>.</sup>	ter range	9		Test moment	Recommended
2.5	≤	2.8				0.4	0.4-0.6
3.0	>	2.8	up to	3.0		0.5	0.5-0.7
-	>	3.0	up to	3.2		0.6	0.6-0.8
3.5	>	3.2	up to	3.6		0.8	0.8-1.0
4	>	3.6	up to	4.1		1.2	1.2-1.6



<sup>\*</sup> Sequencing possible means the mechanical sequencing without loss of poles (by dovetails). Fittable stands for a loose sequencing without loss of poles (without dovetails).
\*\* Only applicable if two variants are available.



# **Symbol Definition**

# **Guiding icons**



Spring clamp terminal block



IDC terminal block



Screw type terminal block



Pin header



Female connector



Ethernet M12



solderable



pluggable



Centerline



Wire entry 90°



Diagonal wire entry



Wire entry 0°



Lift system



Wire protector



modular



Pin header for vertical mounting



Shrouded pin header for vertical mounting



Pin header with open ends for vertical mounting



Pin header with closed ends for vertical mounting



Pin header for horizontal mounting



Shrouded pin header for horizontal mounting



Pin header with open ends for horizontal mounting



Pin header with closed ends for horizontal mounting



designed for THR



designed for SMT



Tape & Reel possible









\*(Type 060) \*old product name

- · screw type terminal block, solderable
- centerline 3.50 mm, direction of connection 90°
- fittable without loss of poles
- · color black

# **Technical data**

1 mm<sup>2</sup> 125 V / 13.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 Rated voltage 160 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.0 mm<sup>2</sup> 0.08 - 2.0 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 14 AWG 28 - 14 Rated wiring stranded wire Clearance and creepage distances 2.1 mm Solder pin dimension 0.9 mm Recommended pc board hole dia. ø 1.2 mm Solder pin length 3.4 mm Protection category according IP 00 to IEC 60529 5 mm Min. insul. strip length





- · screw type terminal block, solderable
- centerline 3.50 mm, direction of connection 90°
- wire protector, fittable without loss of poles
- · color black

П

2

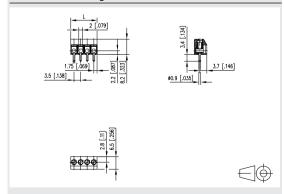
400 V

# Technical data

1 mm<sup>2</sup> 125 V / 13.5 A / T60 Overvoltage category Ш Pollution degree 3 2 2 Rated voltage 160 V 400 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV **CTI 600** Insulating material class Rated wiring solid wire 0.33 - 1.5 mm<sup>2</sup> 0.33 - 0.75 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 16 AWG 22 - 18 Rated wiring stranded wire Clearance and creepage distances 2.1 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.2 mm Solder pin length 3.4 mm Protection category according IP 20 to IEC 60529 5 mm Min. insul. strip length black Color

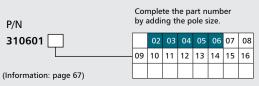
# **Dimensional drawing**

Color



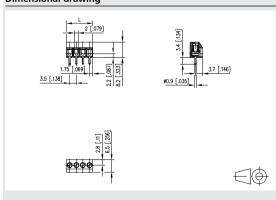
black

L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

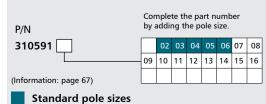


Standard pole sizes

# **Dimensional drawing**



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)











RT063xx0BWC \*(Type 459)

- · screw type terminal block, solderable
- centerline 3.50 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- · color black
- · insulating proof

# **Technical data**

c **Ti**us V / A / AWG 300 / 7 / 28 - 16

1.5 mm<sup>2</sup> 125 V / 13.5 A / T60 Overvoltage category Ш Ш п Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.33 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.33 - 0.75 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 16 AWG 22 - 18 Rated wiring stranded wire Clearance and creepage distances 2.6 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.2 mm Solder pin length 3.4 mm Protection category according IP OO to IEC 60529 Min. insul. strip length 5 mm black Color

# 

- screw type terminal block, solderable
- centerline 3.50 mm, direction of connection vertical 0°
- wire protector, fittable without loss of poles
- color black
- · insulating proof

# **Technical data**

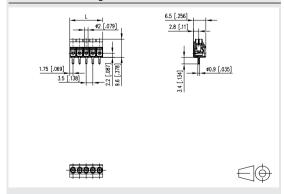
c Nus V/A/AWG 130/10/20-16

1.5 mm<sup>2</sup> 125 V / 13.5 A / T60 Overvoltage category Ш Ш ш Pollution dearee 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.33 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.5 - 2.0 mm<sup>2</sup>

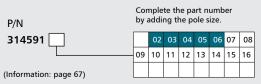
Rated wiring solid wire AWG 22 - 16
Rated wiring stranded wire AWG 20 - 14
Clearance and creepage distances 2.65 mm
Solder pin dimension 0.9 mm
Recommended pc board hole dia. Ø 1.2 mm
Solder pin length 3.4 mm

Protection category according to IEC 60529 IP 00 Min. insul. strip length 5 mm Color black

# **Dimensional drawing**

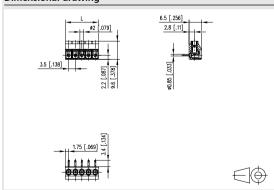


L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

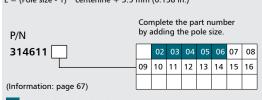


Standard pole sizes

## **Dimensional drawing**



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)









- · screw type terminal block, solderable
- centerline 3.50 mm, direction of connection 90°
- · lift system, modular
- color black
- Tape & Reel packaging
- Max. recommended number of poles: 16

### c **Π**us V / Δ / ΔWG 150 / 10 / 28 - 16

CTALS V / A / AVVG	150/10/28 -	16		
1.0 mm <sup>2</sup>	130 V / 12 A /	T60		
Overvoltage categor	y	III	Ш	II
Pollution degree		3	2	2
Rated voltage		80 V	320 V	320 V
Rated test voltage		2.5 kV	2.5 kV	2.5 kV
Insulating material c	lass	CTI 600		
Rated wiring solid wire		0.2 - 1.5 mm <sup>2</sup>		
Rated wiring stranded wire		0.2 - 1.5 mm <sup>2</sup>		
Rated wiring solid w	rire	AWG 26	- 16	
Rated wiring stranded wire		AWG 26	- 16	
Clearance and creepage distances		1.7 mm		
Solder pin dimension		0.5 x 0.9 mm		
Recommended pc board hole dia.		ø 1.1 mm		
Solder pin length		3.5 mm		
Protection category	according	ID 00		
to IEC 60529		IP 00		
Min. insul. strip leng	th	5 mm		
Color		black		





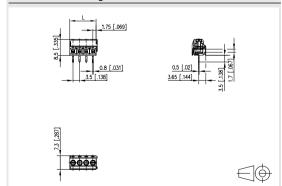
- · screw type terminal block, solderable
- centerline 3.50 mm, direction of connection 45°
- wire protector, fittable without loss of poles
- color black

### **Technical data**

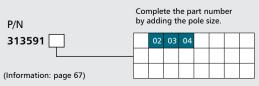
### c **Ni**us V / A / AWG 300 / 10 / 28 - 16

-	500, .0, 20	. •		
1.0 mm <sup>2</sup>	130 V / 13.5 A	/ T60		
Overvoltage categor	у	III	III	II
Pollution degree		3	2	2
Rated voltage		160 V	400 V	400 V
Rated test voltage		2.5 kV	2.5 kV	2.5 kV
Insulating material c	lass	CTI 600		
Rated wiring solid w	rire	0.34 - 1.	0 mm²	
Rated wiring strande	ed wire	0.34 - 1.	0 mm <sup>2</sup>	
Rated wiring solid w	rire	AWG 22	- 18	
Rated wiring strande	ed wire	AWG 22	- 18	
Clearance and creep	age distances	2.1 mm		
Solder pin dimension	n	0.9 mm		
Recommended pc be	oard hole dia.	ø 1.2 mr	n	
Solder pin length		3.7 mm		
Protection category	according	IP 20		
to IEC 60529	.1			
Min. insul. strip leng	tn	5 mm		
Color		black		

### **Dimensional drawing**

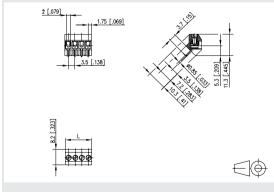


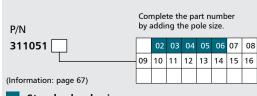
L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)



Standard pole sizes

### **Dimensional drawing**















\*(Type 305) \*old product name

- · screw type terminal block, solderable
- centerline 3.50 mm, direction of connection 35°
- · lift system, fittable without loss of poles
- · color black

### **Technical data**

1.0 mm<sup>2</sup> 130 V / 13.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 Rated voltage 200 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 1.5 mm<sup>2</sup> 0.34 - 1.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 16 AWG 22 - 16 Rated wiring stranded wire Clearance and creepage distances 2.6 mm 0.5 x 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.1 mm Solder pin length 3.5 mm Protection category according IP 20 to IEC 60529 5 mm Min. insul. strip length Color black

- · screw type terminal block, solderable
- centerline 3.50 mm, direction of connection vertical 0°
- wire protector, fittable without loss of poles
- · color black

П

2

500 V

### Technical data

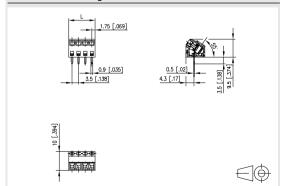
1.0 mm<sup>2</sup> 125 V / 13.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 160 V 400 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV **CTI 600** Insulating material class Rated wiring solid wire 0.33 - 1.5 mm<sup>2</sup> 0.5 - 2.0 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 16

AWG 20 - 14 Rated wiring stranded wire Clearance and creepage distances 2.1 mm 0.9 mm Solder pin dimension

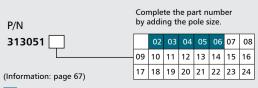
Recommended pc board hole dia. ø 1.2 mm Solder pin length 3.4 mm Protection category according

IP 00 to IEC 60529 5 mm Min. insul. strip length black Color

### **Dimensional drawing**

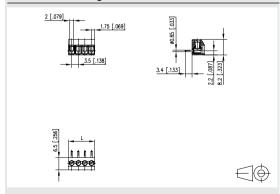


L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)



Standard pole sizes

### Dimensional drawing



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)











- centerline 3.50 mm, direction of connection vertical 0°
- · lift system, modular
- color black
- Max. recommended number of poles: 16

### c Nus V / A / AWG 150 / 10 / 28 - 16

1.0 mm<sup>2</sup> 130 V / 12 A / T60

Overvoltage category Ш Ш Ш Pollution degree 3 2 2 Rated voltage 80 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

CTI 600 Insulating material class Rated wiring solid wire 0.2 - 1.5 mm<sup>2</sup>

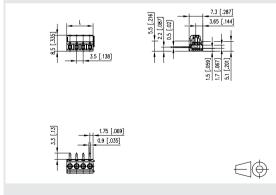
Rated wiring stranded wire 0.2 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 26 - 16

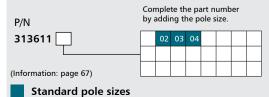
AWG 26 - 16 Rated wiring stranded wire Clearance and creepage distances 1.7 mm

Solder pin dimension 0.5 x 0.9 mm Recommended pc board hole dia. ø 1.1 mm Solder pin length 3.3 mm

Protection category according IP 20 to IEC 60529 5 mm Min. insul. strip length black Color

### **Dimensional drawing**











- centerline 3.81 mm, direction of connection 90°
- lift system, fittable without loss of poles
- color black

c **Su**s V / A / AWG 150 / 10 / 28 - 18

1.0 mm<sup>2</sup> 130 V / 13.5 A / T60 Overvoltage category Ш

Pollution degree 3 2 2 Rated voltage 160 V 400 V 400 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class CTI 600

Rated wiring solid wire Rated wiring stranded wire Rated wiring solid wire Rated wiring stranded wire Clearance and creepage distances

Solder pin dimension Recommended pc board hole dia. ø 1.1 mm

Solder pin length Protection category according

to IEC 60529 Min. insul. strip length Color

0.2 - 1.5 mm<sup>2</sup> 0.2 - 1 mm<sup>2</sup> AWG 28 - 16 AWG 28 - 18 2 mm 0.5 x 0.9 mm 3.5 mm IP 00

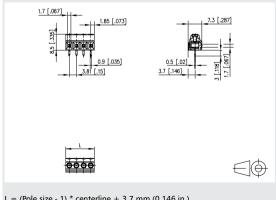
5 mm

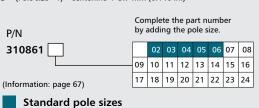
black

Ш

П

### **Dimensional drawing**







2







\*(Type 001) \*old product name

- · screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- color gray

### **Technical data**

1.5 mm<sup>2</sup> 130 V / 17.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 Rated voltage 200 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 2 mm<sup>2</sup> 0.34 - 2 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 14 AWG 22 - 14 Rated wiring stranded wire Clearance and creepage distances 2.6 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.8 mm Protection category according IP 10 to IEC 60529 6 mm Min. insul. strip length





\*old product name

- screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- · wire protector, modular
- color gray

П

2

500 V

### Technical data

1.5 mm<sup>2</sup> 130 V / 13 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 Rated voltage 200 V 500 V

500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.0 mm<sup>2</sup>

Rated wiring stranded wire 0.34 - 2.0 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 14 AWG 22 - 14 Rated wiring stranded wire

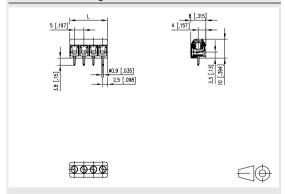
Clearance and creepage distances 2.6 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm

Solder pin length 3.8 mm Protection category according

IP 10 to IEC 60529 6 mm Min. insul. strip length gray Color

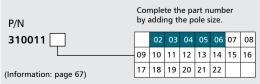
### **Dimensional drawing**

Color



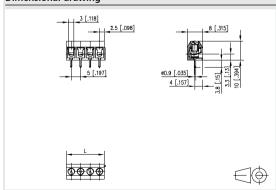
gray

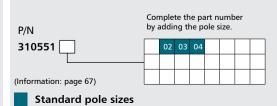
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

### **Dimensional drawing**













\*(Type 271)

- · screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- · color black

### **Technical data**

2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category П Ш Ш Pollution degree 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 26 - 14 AWG 26 - 14 Rated wiring stranded wire Clearance and creepage distances 3.3 mm Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm Solder pin length 4 mm Protection category according IP 20 to IEC 60529

8 mm

black

\*old product name

Ш

- screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- wire protector, fittable without loss of poles
- · color black

### Technical data

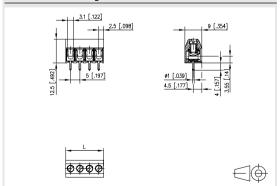
2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category Ш

Pollution degree 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 3.9 mm Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm Solder pin length 4 mm Protection category according IP 20 to IEC 60529 8 mm Min. insul. strip length black Color

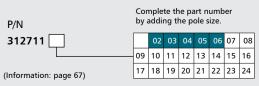
### **Dimensional drawing**

Min. insul. strip length

Color

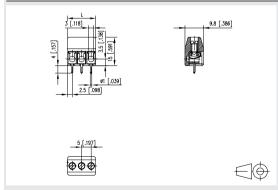


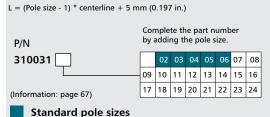
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



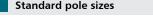
Standard pole sizes

### **Dimensional drawing**















RT045 xx MBWC \*(Type 069)

Centerline Design Function \*old product name

- screw type terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection 90°
- wire protector, fittable without loss of poles
- · color black

### **Technical data**

2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category П Ш Ш Pollution degree 3 2 2 630 V Rated voltage 250 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 3.9 mm 2 x 0.9 x 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.5 mm Protection category according

IP 20

8 mm

black







- screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- lift system, fittable without loss of poles
- · color black

### **Technical data**

c Nus V / A / AWG 300 / 15 / 28 - 14

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 3.9 mm 0.8 x 1.0 mm

Solder pin dimension 0.8 x 1.0 r Recommended pc board hole dia. Ø 1.4 mm Solder pin length 4.1 mm

Protection category according

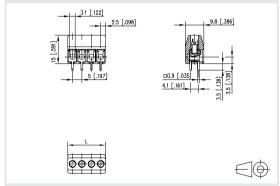
to IEC 60529 IP 20
Min. insul. strip length 7 mm
Color black

### **Dimensional drawing**

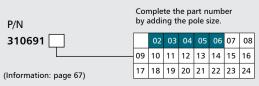
to IEC 60529

Color

Min. insul. strip length

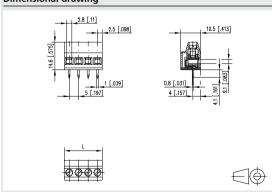


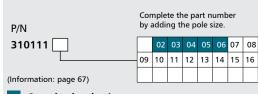
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

### **Dimensional drawing**





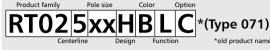












- · screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- · lift system, fittable without loss of poles
- color black

c **N** us V / A / AWG 300 / 20 / 22 - 12

2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category П Ш Ш Pollution degree 3 2 2 800 V Rated voltage 320 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 4 mm 0.8 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm

4.1 mm

IP 20

8 mm

black

## Product family Pole size Color Option RTO25 XXHBLU\*(Type 072) Centerline Design Function \*old product name

- screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- · lift system, modular
- · color black

### **Technical data**

c Nus V / A / AWG 300 / 20 / 22 - 12

2.5 mm<sup>2</sup> 250 V / 16 A / T60

Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 4 mm 0.8 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 4.1 mm Protection category according IP 20 to IEC 60529 8 mm Min. insul. strip length

black

### **Dimensional drawing**

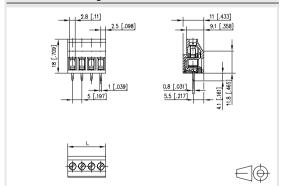
Solder pin length

Min. insul. strip length

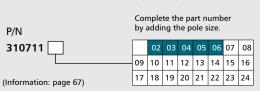
to IEC 60529

Color

Protection category according



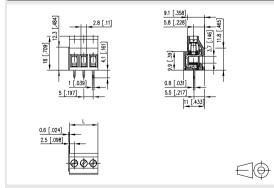
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

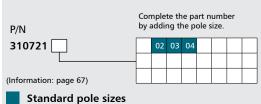


Standard pole sizes

### **Dimensional drawing**

Color













\*(Type 204) \*old product name

- · screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- · lift system, fittable without loss of poles
- · color black

### **Technical data**

2.5 mm<sup>2</sup> 250 V / 16 A / T60 Overvoltage category П Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 4 mm 0.8 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.6 mm Protection category according

IP 20

8 mm

black





- screw type terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection 90°
- · lift system, fittable without loss of poles
- color black
- multiple pins

### **Technical data**

c **Ti**us V / A / AWG 300 / 15 / 28 - 12

2.5 mm<sup>2</sup> 250 V / 16 A / T60

Overvoltage category Ш Ш ш Pollution dearee 3 2 2 Rated voltage 800 V 800 V 320 V Rated test voltage 4 kV 4.0 kV 4 kV

2 x 0.8 x 1.0 mm

ø 1.4 mm

3.2 mm

CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 Rated wiring solid wire

AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 4 mm

Solder pin dimension Recommended pc board hole dia.

Solder pin length

Protection category according to IEC 60529

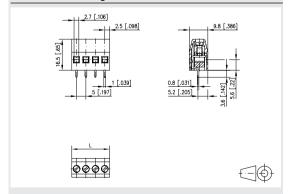
IP 20 8 mm Min. insul. strip length black Color

### **Dimensional drawing**

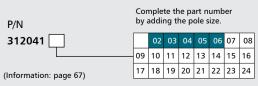
to IEC 60529

Color

Min. insul. strip length

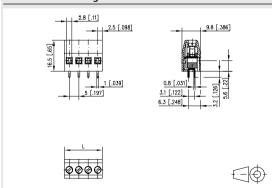


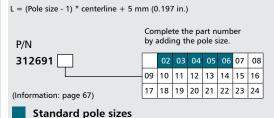
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

### **Dimensional drawing**













(Type 170)

- · screw type terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection 90°
- fittable without loss of poles
- big chamber for wire entry 2 x 2.50 mm<sup>2</sup> / 2 x 13.00 AWG

### **Technical data**

c **%** us V / A / AWG 300 / 20 / 20 - 10

2x2.5 mm<sup>2</sup> 250 V / 24 A / T60

Overvoltage category Ш Ш п Pollution dearee 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.5 - 4 mm<sup>2</sup> Rated wiring stranded wire 0.5 - 4 mm<sup>2</sup> Rated wiring solid wire AWG 20 - 10 AWG 20 - 10 Rated wiring stranded wire Clearance and creepage distances 3.5 mm 2 x 1.5 x 1.5 mm Solder pin dimension Recommended pc board hole dia. ø 2.4 mm Solder pin length 2.9 mm Protection category according

IP 10

black

9.5 mm

### \*old product name

- · screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- · lift system, modular
- color black

### Technical data

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 250 V 630 V 630 V 4.0 kV 4.0 kV Rated test voltage 4 kV **CTI 600** Insulating material class Rated wiring solid wire 0.2 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.2 - 1.5 mm<sup>2</sup>

Rated wiring solid wire AWG 26 - 16 AWG 26 - 16 Rated wiring stranded wire Clearance and creepage distances 3.2 mm

0.5 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.4 mm Protection category according

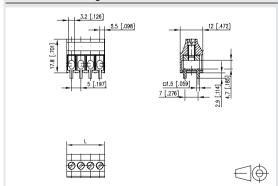
IP 20 to IEC 60529 6 mm Min. insul. strip length black Color

### **Dimensional drawing**

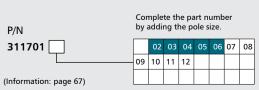
Min. insul. strip length

to IEC 60529

Color

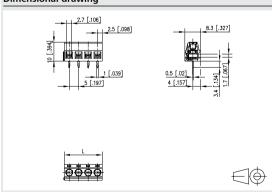


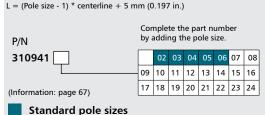
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

### **Dimensional drawing**





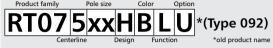




for RT075xxHBLU 711401 294







- · screw type terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection 90°
- · lift system, modular
- color black
- double stacked

### **Technical data**

c Sus V/A/AWG 300/10/26-16

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш Ш п Pollution degree 3 2 2 Rated voltage 630 V 630 V 250 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 26 - 16 Rated wiring stranded wire AWG 26 - 16 Clearance and creepage distances 3.2 mm 2 x 0.5 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm

3.4 mm

IP 20

6 mm

black

# (Type 096)

- · screw type terminal block, solderable, double solder pins
- centerline 5.00 mm, direction of connection 90°
- lift system, modular
- color black
- double stacked

### **Technical data**

c **Ti**us V / A / AWG 300 / 20 / 22 - 12

2.5 mm<sup>2</sup> 250 V / 24 A / T60

Overvoltage category Ш Ш ш Pollution dearee 3 2 2 Rated voltage 800 V 800 V 320 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 2.5 mm<sup>2</sup>

AWG 22 - 12 Rated wiring solid wire AWG 22 - 12 Rated wiring stranded wire

Clearance and creepage distances 4 mm 2 x 0.8 x 1.0 mm Solder pin dimension

Recommended pc board hole dia. ø 1.4 mm 5 mm

Solder pin length

Protection category according

IP 20 to IEC 60529 6 mm Min. insul. strip length black Color

### **Dimensional drawing**

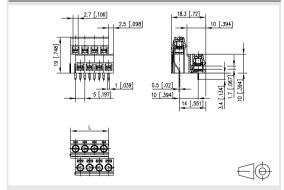
Solder pin length

Min. insul. strip length

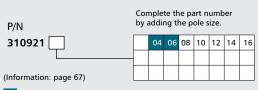
to IEC 60529

Color

Protection category according

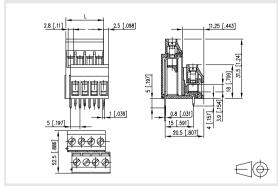


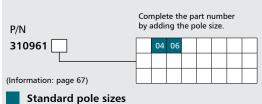
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

### **Dimensional drawing**











- · screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- · lift system, modular
- color green
- · distribution terminal block, all poles with same potential, insulating proof

c Sus V / A / AWG 300 / 20 / 22 - 12

2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 800 V 800 V Rated voltage 320 V Rated test voltage 4 kV 4.0 kV Insulating material class **CTI 600** 0.34 - 2.5 mm<sup>2</sup> Rated wiring solid wire Rated wiring stranded wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 12 Rated wiring stranded wire AWG 22 - 12 Clearance and creepage distances 4 mm Solder pin dimension 0.8 x 1.0 mm Recommended pc board hole dia. ø 1.4 mm Solder pin length 5.1 mm Protection category according

IP 20

8 mm

areen

### \*(Type 385) \*old product name

- screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- lift system, fittable without loss of poles
- color gray
- solder pins right-angled to the left

### **Technical data**

c **Tu**s V / A / AWG 300 / 20 / 20 - 12

2.50 mm<sup>2</sup> 250 V / 24 A / T60

Overvoltage category Ш п Pollution dearee 2 2 Rated voltage 800 V 800 V 320 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class

Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 2.5 mm<sup>2</sup> AWG 20 - 12 Rated wiring solid wire AWG 20 - 12 Rated wiring stranded wire Clearance and creepage distances 4 mm

see drawing mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm

Solder pin length

Protection category according

to IEC 60529 Min. insul. strip length Color

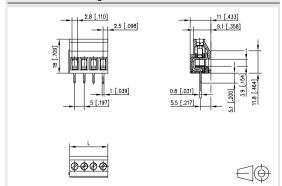
3.9 mm IP 20 8 mm gray

### **Dimensional drawing**

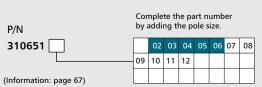
Min. insul. strip length

to IEC 60529

Color

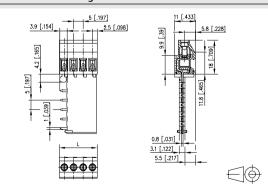


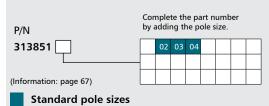
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

### **Dimensional drawing**











- · screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 90°
- lift system, fittable without loss of poles
- color gray
- · solder pins right-angled to the right

c **%** us V / A / AWG 300 / 20 / 20 - 12

2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category Ш Ш п Pollution dearee 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 4 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 20 - 12 Rated wiring stranded wire AWG 20 - 12 Clearance and creepage distances 4 mm see drawing mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.9 mm Protection category according IP 20 to IEC 60529 8 mm

gray



- · screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 45°
- wire protector, fittable without loss of poles
- · color black

### **Technical data**

2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup>

0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 2.6 mm 1.0 mm Solder pin dimension

ø 1.3 mm Recommended pc board hole dia. Solder pin length 5 mm

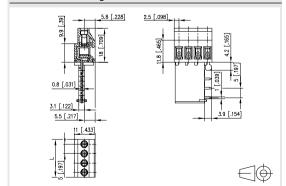
Protection category according to IEC 60529

IP 20 8 mm Min. insul. strip length black Color

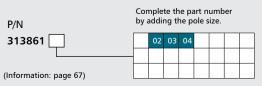
### **Dimensional drawing**

Min. insul. strip length

Color

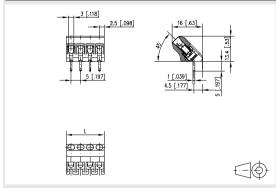


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

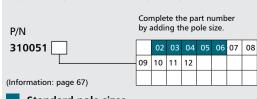


Standard pole sizes

### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)













\*(Type 205) \*old product name

- · screw type terminal block, solderable
- centerline 5.00 mm, direction of connection 55°
- · lift system, fittable without loss of poles
- · color black

### **Technical data**

2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category П Ш Ш Pollution degree 3 2 2 630 V Rated voltage 250 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 3.2 mm 0.8 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.4 mm

IP 20

7 mm

black

- screw type terminal block, solderable
- centerline 5.00 mm, direction of connection vertical 0°
- wire protector, fittable without loss of poles
- color gray

### Technical data

1.5 mm<sup>2</sup> 130 V / 13 A / T60

Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV **CTI 600** Insulating material class

Rated wiring solid wire 0.34 - 2.0 mm<sup>2</sup> 0.34 - 2.0 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 14 AWG 22 - 14 Rated wiring stranded wire Clearance and creepage distances 2.6 mm

0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.4 mm

Protection category according

IP 10 to IEC 60529 6 mm Min. insul. strip length gray Color

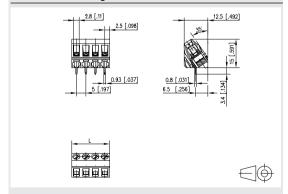
### **Dimensional drawing**

Protection category according

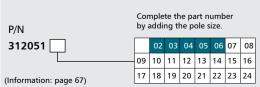
Min. insul. strip length

to IEC 60529

Color

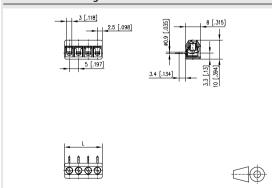


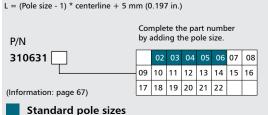
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

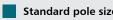


Standard pole sizes

### **Dimensional drawing**













- $\bullet\,$  centerline 5.00 mm, direction of connection vertical  $0^\circ$
- wire protector, fittable without loss of poles
- · color black

### c Sus V / A / AWG 300 / 15 / 22 - 14

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 Rated voltage

Rated test voltage

Insulating material class Rated wiring solid wire 0.34 - 2.0 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 2.0 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 14 AWG 22 - 14 Rated wiring stranded wire Clearance and creepage distances 4 mm

Solder pin dimension

Recommended pc board hole dia. ø 1.3 mm Solder pin length

Protection category according

to IEC 60529 Min. insul. strip length

Color

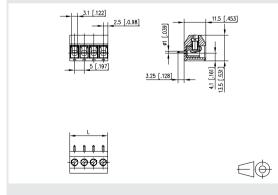
2 320 V 800 V 800 V 4 kV 4.0 kV 4 kV CTI 600

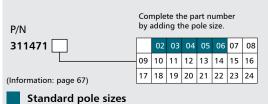
П

1.0 mm 3.25 mm

IP 00 8 mm black

### **Dimensional drawing**













RT016 xxHBWC \*(Type 101)

Centerline Design Function \*old product name

- · screw type terminal block, solderable
- centerline 5.08 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- color black

### **Technical data**

c Nius V / A / AWG 300 / 15 / 28 - 14

1.5 mm<sup>2</sup> 130 V / 13 A / T60 Overvoltage category П Ш Ш Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 2.0 mm<sup>2</sup> 0.34 - 2.0 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 14 AWG 28 - 14 Rated wiring stranded wire Clearance and creepage distances 2.7 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.8 mm Protection category according IP 10 to IEC 60529 6 mm Min. insul. strip length

## Product family Pole size Color Option RT056xxHBLU \*(Type 015) Centerline Design Function \*old product name

- screw type terminal block, solderable
- centerline 5.08 mm, direction of connection 90°
- · lift system, modular
- color black

### **Technical data**

c Nus V/A/AWG 300/15/22-14

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.0 mm<sup>2</sup> 0.34 - 2.0 mm<sup>2</sup> Rated wiring stranded wire

Rated wiring solid wire AWG 22 - 14
Rated wiring stranded wire AWG 22 - 14
Clearance and creepage distances 3.9 mm
Solder pin dimension 0.8 x 1.0 mm

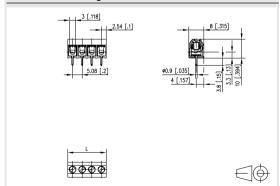
Recommended pc board hole dia. ø 1.4 mm Solder pin length 4.1 mm

to IEC 60529 IP 20
Min. insul. strip length 7 mm
Color black

Protection category according

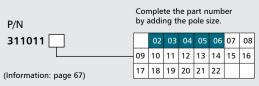
### **Dimensional drawing**

Color



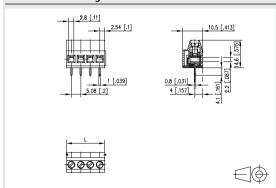
black

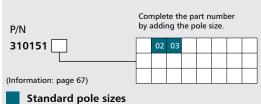
L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)



Standard pole sizes

### **Dimensional drawing**











- · screw type terminal block, solderable
- centerline 5.08 mm, direction of connection 90°
- · lift system, modular
- color black

c **Ni**us V / A / AWG 300 / 10 / 26 - 16

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш П Ш Pollution degree 3 2 2 630 V Rated voltage 250 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.2 - 1.5 mm<sup>2</sup> 0.2 - 1 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 26 - 16 AWG 26 - 16 Rated wiring stranded wire Clearance and creepage distances 3.2 mm 0.5 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.4 mm Protection category according IP 20 to IEC 60529 6 mm Min. insul. strip length

black



- · screw type terminal block, solderable
- centerline 5.08 mm, direction of connection 90°
- · wire protector, modular
- · color black

### **Technical data**

c **Nu**s V / A / AWG 300 / 20 / 22 - 14

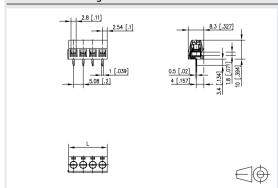
250 V / 24 A / T60

Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 3.9 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 4 mm Protection category according IP 20 to IEC 60529 8 mm Min. insul. strip length

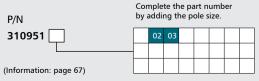
black

### **Dimensional drawing**

Color



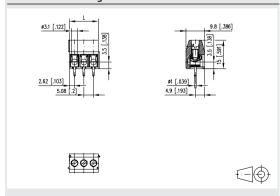
L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)

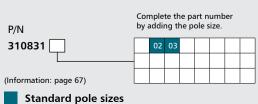


Standard pole sizes

### **Dimensional drawing**

Color









Accessories Page

for RT076xxHBLU 711401 294







- screw type terminal block, solderable, double solder pins
- centerline 5.08 mm, direction of connection 90°
- · lift system, modular
- color black
- double stacked

### **Technical data**

c Nus V/A/AWG 300/10/26-16

1.5 mm<sup>2</sup> 250 V / 17.5 A / T60 Overvoltage category Ш Ш п Pollution dearee 3 2 2 Rated voltage 630 V 630 V 250 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 26 - 16 Rated wiring stranded wire AWG 26 - 16 Clearance and creepage distances 3.2 mm 2 x 0.5 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.4 mm Protection category according IP 10 to IEC 60529 Min. insul. strip length 6 mm

black

# Product family Pole size Color Option RT206xxHBLU\*(Type 097) Centerline Design Function \*old product name

- · screw type terminal block, solderable, double solder pins
- centerline 5.08 mm, direction of connection 90°
- lift system, modular
- · color black
- double stacked

### Technical data

c **%** us V / A / AWG 300 / 20 / 22 - 12

250 V / 24 A / T60

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 320 V
 800 V
 800 V

 Rated test voltage
 4 kV
 4.0 kV
 4 kV

Rated test voltage 4 kV 4.0 kV 4 k
Insulating material class CTI 600

Rated wiring solid wire 0.34 - 2.5 mm²
Rated wiring stranded wire 0.34 - 2.5 mm²
Rated wiring solid wire AWG 22 - 12

Rated wiring stranded wire AWG 22 - 12

Clearance and creepage distances 4 mm
Solder pin dimension 2 x 0.8 x 1.0 mm

Recommended pc board hole dia.

Solder pin length Protection category according

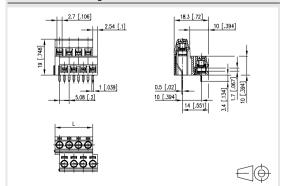
Protection category according to IEC 60529 IP Min. insul. strip length 6

5 mm
IP 20
6 mm
black

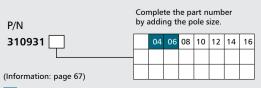
ø 1.4 mm

### **Dimensional drawing**

Color



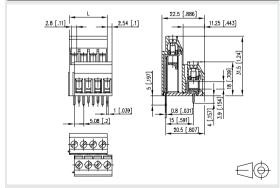
L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)

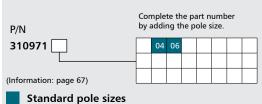


Standard pole sizes

### **Dimensional drawing**

Color













Product family Pole size Color Option

RT026 xxHBLU \*(Type 073)

Centerline Design Function \*old product name

- · screw type terminal block, solderable
- centerline 5.08 mm, direction of connection 90°
- lift system, modular
- · color black
- Max. recommended number of poles: 6

### **Technical data**

c Nus V/A/AWG 300/20/22 - 12

2.5 mm<sup>2</sup> 250 V / 16 A / T60 Overvoltage category Ш Ш п Pollution dearee 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 4 mm

Recommended pc board hole dia. ø 1.4 mm

0.8 x 1.0 mm

4.1 mm

**IP 20** 

8 mm

black

### Product family Pole size Color Option RT016xxVBWC \*(Type 163) Centerline Design Function \*old product name

- screw type terminal block, solderable
- centerline 5.08 mm, direction of connection vertical 0°

Ш

- wire protector, fittable without loss of poles
- · color black

### **Technical data**

c **Ni**us V / A / AWG 300 / 15 / 28 - 14

1.5 mm<sup>2</sup> 130 V / 13 A / T60 Overvoltage category

Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2 mm<sup>2</sup> 0.34 - 1.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 14 AWG 28 - 14 Rated wiring stranded wire Clearance and creepage distances 2.6 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.4 mm Protection category according IP 10 to IEC 60529 6 mm Min. insul. strip length black Color

### **Dimensional drawing**

Solder pin dimension

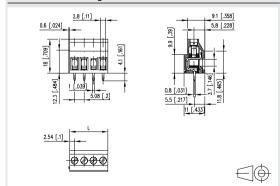
Min. insul. strip length

Protection category according

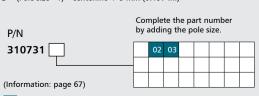
Solder pin length

to IEC 60529

Color

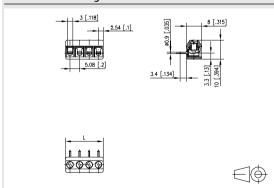


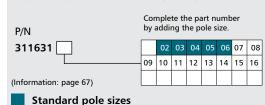
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

### **Dimensional drawing**









- · screw type terminal block, solderable
- centerline 6.35 mm, direction of connection 90°
- · lift system, modular
- color green

c **Si**us V / A / AWG 300 / 30 / 26 - 10

450 V / 32 A / T60

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 400 V
 1000 V
 1000 V

 Rated test voltage
 4 kV
 4.0 kV
 4.0 kV

Insulating material class CTI 600

Rated wiring solid wire 0.2 - 4 mm<sup>2</sup>

Rated wiring stranded wire 0.2 - 4 mm<sup>2</sup>

Rated wiring solid wire AWG 26 - 1

Rated wiring stranded wire Clearance and creepage distances Solder pin dimension

Recommended pc board hole dia. Ø 1.3 mm Solder pin length 4.5 mm

Protection category according to IEC 60529

Min. insul. strip length
Color

CIT 600

0.2 - 4 mm<sup>2</sup>

0.2 - 4 mm<sup>2</sup>

AWG 26 - 10

AWG 26 - 10

5 mm

0.8 x 1.0 mm

Ø 1.3 mm

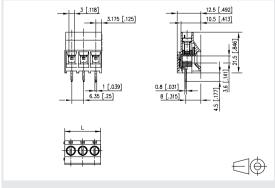
4.5 mm

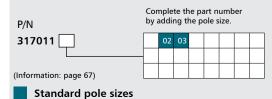
IP 20

7 mm

green

### **Dimensional drawing**













\*(Type 171)

- · screw type terminal block, solderable
- centerline 7.50 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- · color black

### **Technical data**

2.5 mm<sup>2</sup> 450 V / 24 A / T60 Overvoltage category П Ш Pollution degree 3 2 Rated voltage 400 V 1000 V 1000 V Rated test voltage 6.0 kV 6.0 kV 6 kV CTI 600 Insulating material class Rated wiring solid wire 0.12 - 2.5 mm<sup>2</sup> 0.12 - 1.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 26 - 14 AWG 26 - 14 Rated wiring stranded wire Clearance and creepage distances 5.8 mm Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm Solder pin length 2.8 mm Protection category according IP 20

8 mm

black





- · screw type terminal block, solderable
- centerline 7.50 mm, direction of connection 90°
- lift system, fittable without loss of poles
- · color black

### **Technical data**

2.50 mm<sup>2</sup> 750 V / 24 A / T60

Overvoltage category Ш Pollution degree 3 2 2 500 V 1250 V 1250 V Rated voltage 6.0 kV 6.0 kV 6 kV Rated test voltage **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 4 mm<sup>2</sup> 0.34 - 4 mm<sup>2</sup> Rated wiring stranded wire

Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 6.5 mm

0.8 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 4.1 mm

Protection category according IP 20 to IEC 60529

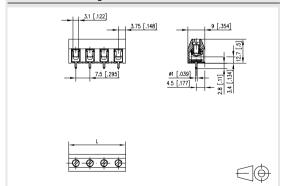
8 mm Min. insul. strip length black Color

### **Dimensional drawing**

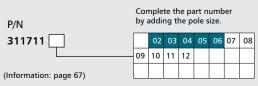
to IEC 60529

Color

Min. insul. strip length

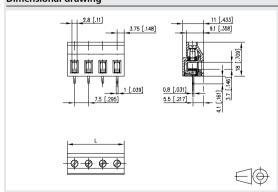


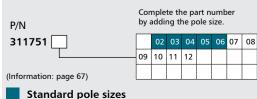
L = (Pole size - 1) \* centerline + 7.5 mm (0.295 in.)



Standard pole sizes

### **Dimensional drawing**











- · screw type terminal block, solderable
- centerline 9.52 mm, direction of connection 90°
- · lift system, modular
- color green

c **Si**us V / A / AWG 300 / 30 / 26 - 10

4 mm<sup>2</sup> 800 V / 32 A / T60 Overvoltage category Ш

Ш П Pollution degree 3 2 2 1600 V 1600 V Rated voltage 630 V Rated test voltage 8.0 kV 8 kV 8.0 kV

Insulating material class Rated wiring solid wire Rated wiring stranded wire Rated wiring solid wire

Rated wiring stranded wire Clearance and creepage distances 8.5 mm Solder pin dimension

Recommended pc board hole dia. ø 1.3 mm Solder pin length

Protection category according to IEC 60529

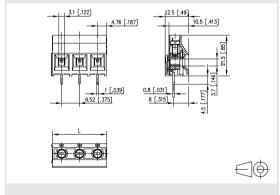
Min. insul. strip length Color

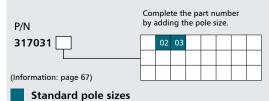
CTI 600 0.2 - 4 mm<sup>2</sup> 0.2 - 4 mm<sup>2</sup> AWG 26 - 10 AWG 26 - 10 0.8 x 1.0 mm

IP 20 7 mm green

4.5 mm

### **Dimensional drawing**











- · screw type terminal block, solderable
- centerline 10.00 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- · color gray

- N. V. A. / A.W.C. 600 / 15 / 22 14

c <b>TL</b> us V / A / AWG	600 / 15 / 22 -	14			
1.5 mm <sup>2</sup>	750 V / 13 A /	T60			
Overvoltage categor	ry	III	Ш	II	
Pollution degree		3	2	2	
Rated voltage		500 V	1250 V	1250 \	
Rated test voltage		6.0 kV	6.0 kV	6 kV	
Insulating material of	class	CTI 600			
Rated wiring solid wire		0.34 - 2 mm <sup>2</sup>			
Rated wiring stranded wire		0.34 - 2 mm <sup>2</sup>			
Rated wiring solid wire		AWG 22	AWG 22 - 14		
Rated wiring stranded wire		AWG 22	- 14		
Clearance and creepage distances		7.6 mm			
Solder pin dimension		0.9 mm			
Recommended pc b	oard hole dia.	ø 1.3 m	m		
Solder pin length		3.8 mm			
Protection category	according	IP 10			
to IEC 60529	415				
Min. insul. strip leng	gui	6 mm			
Color		grav			



- · screw type terminal block, solderable
- centerline 10.00 mm, direction of connection 90°
- · wire protector
- · color gray

### **Technical data**

\_\_\_\_\_ 1.5 mm² 750 V / 13 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 630 V 1600 V 1600 V Rated voltage Rated test voltage 8.0 kV 8 kV 8.0 kV Insulating material class CTI 600 Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 14 AWG 22 - 14 Rated wiring stranded wire

3.8 mm

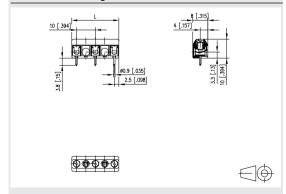
Clearance and creepage distances 9.1 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm

Solder pin length Protection category according

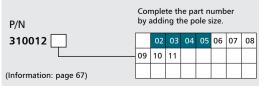
to IEC 60529 Min. insul. strip length

IP 10 7 mm Color gray

### **Dimensional drawing**

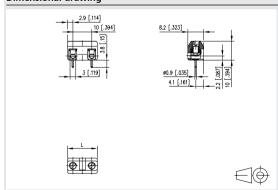


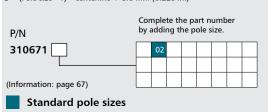
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

### **Dimensional drawing**













\*(Type 271)

- · screw type terminal block, solderable
- centerline 10.00 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- · color black

### **Technical data**

2.5 mm<sup>2</sup> 750 V / 24 A / T60 Overvoltage category П Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 26 - 14 AWG 26 - 14 Rated wiring stranded wire Clearance and creepage distances 8.8 mm Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm Solder pin length 4 mm Protection category according IP 20 to IEC 60529 8 mm Min. insul. strip length Color black

- screw type terminal block, solderable
- centerline 10.00 mm, direction of connection 90°
- wire protector, fittable without loss of poles
- · color black

### Technical data

2.5 mm<sup>2</sup> 630 V / 24 A / T60 Overvoltage category Ш

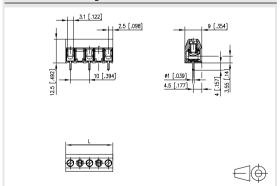
Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V 8.0 kV 8 kV Rated test voltage 8.0 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 8.9 mm

Ш

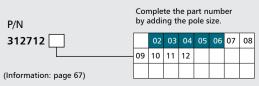
Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm Solder pin length 4 mm

Protection category according IP 20 to IEC 60529 8 mm Min. insul. strip length black Color

### **Dimensional drawing**

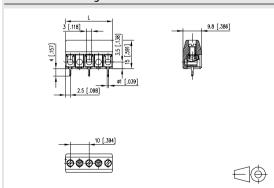


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

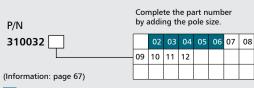


Standard pole sizes

### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)















(Type 069)

- · screw type terminal block, solderable, double solder pins
- centerline 10.00 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- · color black

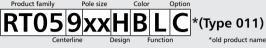
### **Technical data**

2.5 mm<sup>2</sup> 630 V / 24 A / T60 Overvoltage category П Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 8.9 mm 2 x 0.9 x 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.5 mm Protection category according IP 20 to IEC 60529 8 mm Min. insul. strip length Color

black







- · screw type terminal block, solderable
- centerline 10.00 mm, direction of connection 90°
- lift system, fittable without loss of poles
- · color black

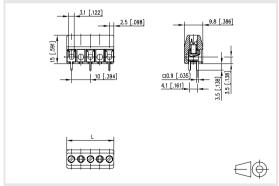
### Technical data

1.5 mm<sup>2</sup> 500 V / 17.5 A / T60 Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V 8.0 kV 8 kV Rated test voltage 8.0 kV **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 8.9 mm 0.8 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 4.1 mm Protection category according IP 20

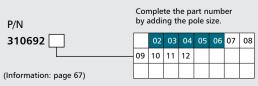
7 mm

black

### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



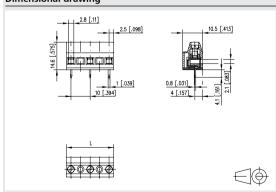
Standard pole sizes

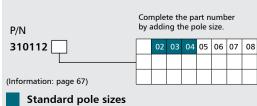
### **Dimensional drawing**

to IEC 60529

Color

Min. insul. strip length



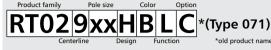




PC board terminal blocks







- · screw type terminal block, solderable
- centerline 10.00 mm, direction of connection 90°
- · lift system, fittable without loss of poles
- · color black

### **Technical data**

2.5 mm<sup>2</sup> 750 V / 24 A / T60 Overvoltage category П Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 2.5 mm<sup>2</sup> 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 9 mm 0.8 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 4.1 mm Protection category according IP 20 to IEC 60529 8 mm Min. insul. strip length

black

- · screw type terminal block, solderable, double solder pins
- centerline 10.00 mm, direction of connection 90°
- · lift system, fittable without loss of poles
- · color black

### Technical data

2.5 mm<sup>2</sup>

Overvoltage category Ш Ш Pollution degree 3 2 Rated voltage 630 V 1600 V 1600 V 8.0 kV 8 kV Rated test voltage 8.0 kV **CTI 600** Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 9 mm

Solder pin dimension Recommended pc board hole dia.

Solder pin length Protection category according

to IEC 60529 Min. insul. strip length Color

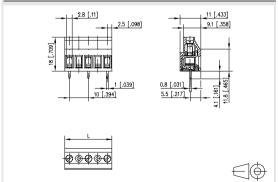
3.2 mm IP 20 8 mm black

ø 1.4 mm

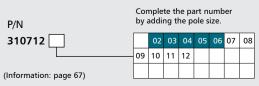
2 x 0.8 x 1.0 mm

### **Dimensional drawing**

Color

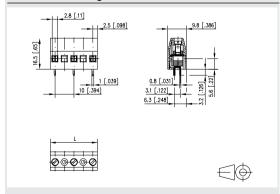


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

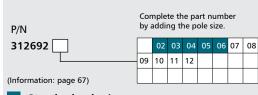


Standard pole sizes

### Dimensional drawing



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)











\*(Type 205) \*old product name

- · screw type terminal block, solderable
- centerline 10.00 mm, direction of connection 55°
- · lift system, fittable without loss of poles
- · color black

### **Technical data**

2.5 mm<sup>2</sup> 250 V / 24 A / T60 Overvoltage category П Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 600 Insulating material class Rated wiring solid wire 0.34 - 4 mm<sup>2</sup> 0.34 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 8.2 mm 0.8 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.4 mm Protection category according IP 20 to IEC 60529 7 mm Min. insul. strip length

black



- · screw type terminal block, solderable
- centerline 10.00 mm, direction of connection vertical 0°
- wire protector, fittable without loss of poles
- color gray

### Technical data

1.5 mm<sup>2</sup> Overvoltage category Ш

Pollution degree 3 2 2 500 V 1250 V 1250 V Rated voltage 6.0 kV 6.0 kV 6 kV Rated test voltage **CTI 600** Insulating material class Rated wiring solid wire 0.34 - 2.0 mm<sup>2</sup> 0.34 - 2.0 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 14 AWG 22 - 14 Rated wiring stranded wire

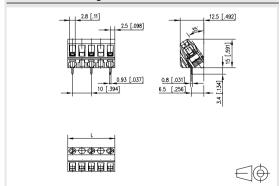
Clearance and creepage distances 7.6 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.4 mm

Protection category according to IEC 60529

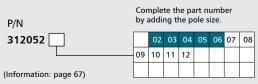
IP 10 6 mm Min. insul. strip length gray Color

### **Dimensional drawing**

Color

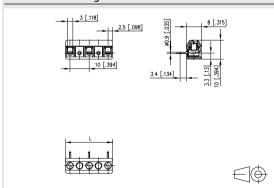


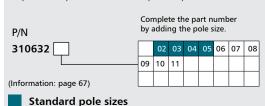
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

### **Dimensional drawing**











- $\bullet\,$  centerline 10.00 mm, direction of connection vertical  $0^\circ$
- wire protector, fittable without loss of poles
- color black

### c Nus V/A/AWG 600/15/22-14

1.5 mm<sup>2</sup> 800 V / 17.5 A / T60 Overvoltage category III

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 630 V
 1600 V
 1600 V

 Rated test voltage
 8.0 kV
 8 kV
 8.0 kV

 Insulating material class
 CTI 600
 CTI 600

Insulating material class Rated wiring solid wire

Rated wiring solid wire 0.34 - 2.0 mm²
Rated wiring stranded wire 0.34 - 2.0 mm²
Rated wiring solid wire AWG 22 - 14
Rated wiring stranded wire AWG 22 - 14

Clearance and creepage distances Solder pin dimension

Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.25 mm

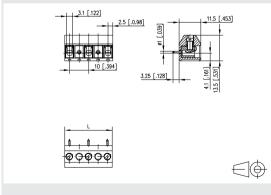
Protection category according to IEC 60529

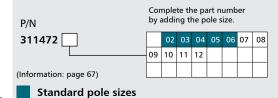
Min. insul. strip length Color 3.25 mm IP 00 8 mm

black

9 mm 1.0 mm

### **Dimensional drawing**











- centerline 10.16 mm, direction of connection vertical  $0^{\circ}$
- wire protector, fittable without loss of poles
- color black

### c Sus V/A/AWG 600/15/28-14

1.5 mm<sup>2</sup> 750 V / 13 A / T60 Overvoltage category Ш Ш П Pollution degree 3 2 2 Rated voltage 500 V 1250 V 1250 V Rated test voltage 6.0 kV 6.0 kV 6 kV Insulating material class CTI 600 Rated wiring solid wire 0.34 - 2 mm<sup>2</sup> Rated wiring stranded wire 0.34 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 14 AWG 28 - 14 Rated wiring stranded wire

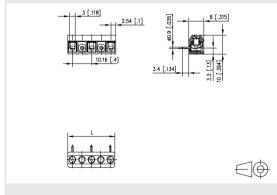
3.4 mm

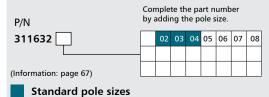
Clearance and creepage distances 7.68 mm 0.9 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm

Solder pin length Protection category according

IP 10 to IEC 60529 6 mm Min. insul. strip length Color black

### **Dimensional drawing**









for RP023xxHBWC	Page
PR033xxVBHC (Type 224)	150

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### **Pin Headers**

for RP023xxHBNF	Page
PR013xxVBHC (Type 024)	146

### Accessories Page for RP023xxHBNF 720158 288

720159 291



\*(Type 166) \*old product name

- · screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- · Wire entry perpendicular to plug direction

### Technical data

c Tus V / A / AWG 125 / 8 / 28 - 16

6 A / 200 V / 2.5 kV / 3 / 0.08 - 1 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution degree 2 3 2 Rated voltage 400 V 400 V 160 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 0.75 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 0.75 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 18 AWG 28 - 18 Rated wiring stranded wire Clearance and creepage distances 2 mm Protection category according IP 00 to IEC 60529 5 mm Min. insul. strip length

black



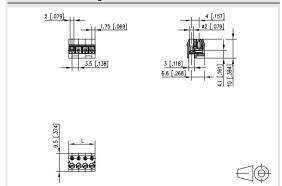
- screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- wire protector, fittable without loss of poles
- · color black

### Technical data

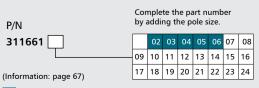
c Sus V / A / AWG 125 / 10 / 28 - 16 6 A / 200 V / 2.5 kV / 3 / 0.08 - 1 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution degree 3 2 2 Rated voltage 160 V 400 V 400 V 2.5 kV 2.5 kV 2.5 kV Rated test voltage **CTI 600** Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 16 AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 2 mm Protection category according IP 00 to IEC 60529 Min. insul. strip length 5 mm black Color

### **Dimensional drawing**

Color

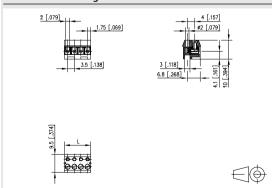


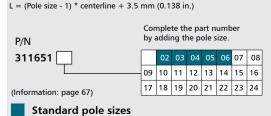
L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)



Standard pole sizes

### **Dimensional drawing**









TOT RPU43XXHBLC	Pag
PR043xxHBBN (Type 188)	146
PT093xxHBBN (Type 342)	149
PR043xxVBBN (Type 189)	151
PT093xxVBBN (Type 343)	154

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<b>暦</b> PT093xxHBBN (Type 342)	149
PR043xxVBBN (Type 189)	151
PT093xxVBBN (Type 343)	154







- · screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- lift system, fittable without loss of poles
- · color black
- with alternative face, wire entry uncodeable side perpendicular to plug direction

### **Technical data**

c <b>Ni</b> us V / A / AWG 30	00 / 10 / 2	8 - 16	
10 A / 130 V / 2.5 kV / 3 / 0	0.34 - 1 m	ım² / IEC 6	51984
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	200 V	500 V	500 V
Rated test voltage	2.5 kV	2.5 kV	2.5 kV
Insulating material class	CTI 600	)	
Rated wiring solid wire	0.08 - 1	.5 mm <sup>2</sup>	
Rated wiring stranded wire	0.08 - 1	.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 2	8 - 16	
Rated wiring stranded wire	AWG 2	8 - 16	
Clearance and creepage distances	2.7 mm	1	
Protection category according	10.20		
to IEC 60529	IP 20		
Min. insul. strip length	7 mm		
Color	black		





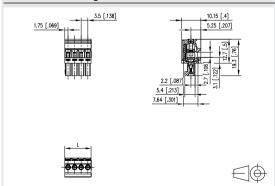
- screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- lift system, fittable without loss of poles
- color black
- with alternative face, wire entry codeable side perpendicular to plug direction

### **Technical data**

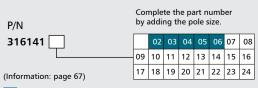
c <b>Ni</b> us V / A / AWG	300/10/2	8 - 16	
10 A / 130 V / 2.5 kV / 3	/ 0.34 - 1 m	nm² / IEC (	51984
Overvoltage category	III	Ш	II
Pollution degree	3	2	2
Rated voltage	200 V	500 V	500 V
Rated test voltage	2.5 kV	2.5 kV	2.5 kV
Insulating material class	CTI 600	)	
Rated wiring solid wire	0.08 -	1.5 mm²	
Rated wiring stranded wire	0.08 -	1.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 2	8 - 16	
Rated wiring stranded wire	AWG 2	8 - 16	
Clearance and creepage distance	es 2.7 mn	า	
Protection category according			
to IEC 60529	IP 20		
Min. insul. strip length	7 mm		

black

### **Dimensional drawing**



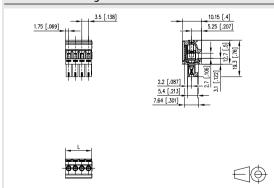
L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

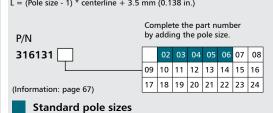


Standard pole sizes

### **Dimensional drawing**

Color









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PT093xxHBBF (Type 394)	149
PR043xxVBBF (Type 389)	151

### **Pin Headers**

for RP043xxHBLS	Page
PR043xxHBBF (Type 388)	147
FT093xxHBBF (Type 394)	149
PR043xxVBBF (Type 389)	151





- · screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- · lift system
- · color black, mounting flange
- wire entry uncodeable side perpendicular to plug direction

### Technical data

c Wus V / A / AWG 300 / 10 / 28 - 16 10 A / 130 V / 2.5 kV / 3 / 0.34 - 1 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 2.7 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 7 mm Color black

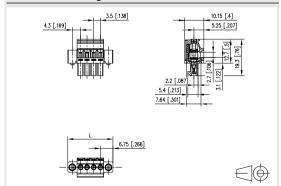


- screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- · lift system
- color black, mounting flange
- wire entry codeable side perpendicular to plug direction

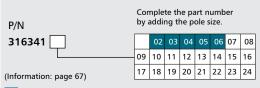
### Technical data

c Rus V / A / AWG 300 / 10 / 28 - 16 10 A / 130 V / 2.5 kV / 3 / 0.34 - 1 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution dearee 2 3 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 16 Rated wiring solid wire AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 2.7 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 7 mm Color black

### **Dimensional drawing**

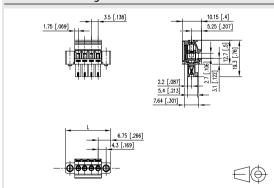


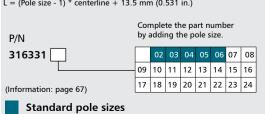
L = (Pole size - 1) \* centerline + 13.5 mm (0.531 in.)



Standard pole sizes

### **Dimensional drawing**









for RW043xxHBLC Page
PW063xxHBBN (Type 523) 148

PW063xxVBBN (Type 524) 152

### **Pin Headers**

for RW043xxHBLD Page
PW063xxHBBN (Type 523) 148

PW063xxVBBN (Type 524) 152







- · screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- · lift system, fittable without loss of poles
- color black
- with alternative face, wire entry uncodeable side perpendicular to plug direction

### **Technical data**

c Nus V / A / AWG 300 / 10 / 28 - 16

10 A / 130 V / 2.5 kV / 3 / 0.08 - 1 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш П Pollution degree 3 2 2 500 V Rated voltage 200 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

Clearance and creepage distances 2
Protection category according

to IEC 60529 IP 20 Min. insul. strip length 7 mm Color black

### 20000



- screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- · lift system, fittable without loss of poles
- color black
- with alternative face, wire entry codeable side perpendicular to plug direction

### **Technical data**

**Sus** V / A / AWG 300 / 10 / 28 - 16

10 A / 130 V / 2.5 kV / 3 / 0.08 - 1 mm<sup>2</sup> / IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 200 V
 500 V
 500 V

 Rated test voltage
 2.5 kV
 2.5 kV
 2.5 kV

 Insulating material class
 CTI 600
 CTI 600
 CTI 600

Rated wiring solid wire 0.08 - 1.5 mm²
Rated wiring stranded wire 0.08 - 1.5 mm²
Rated wiring solid wire AWG 28 - 16
Rated wiring stranded wire AWG 28 - 16

Clearance and creepage distances

Protection category according to IEC 60529

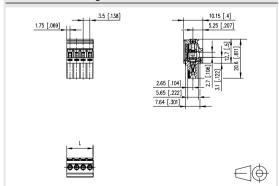
Min. insul. strip length

Color

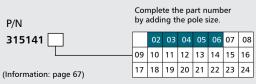
IP 20 7 mm black

2.7 mm

### **Dimensional drawing**

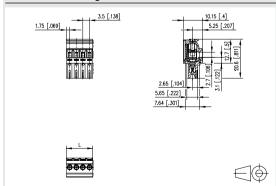


L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)



Standard pole sizes

### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)







for RW043xxHBLF Page **PW063xxHBBF (Type 525)** 148

PW063xxVBBF (Type 526) 153

### **Pin Headers**

for RW043xxHBLS Page PW063xxHBBF (Type 525) 148

PW063xxVBBF (Type 526) 153





- · screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- · lift system
- · color black, mounting flange
- · with alternative face, wire entry uncodeable side perpendicular to plug direction

### **Technical data**

c Wus V / A / AWG 300 / 10 / 28 - 16 10 A / 130 V / 2.5 kV / 3 / 0.08 - 1 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш П Pollution degree 3 2 2 500 V Rated voltage 200 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class **CTI 600** 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 2.7 mm Protection category according IP 20 to IEC 60529 7 mm Min. insul. strip length black Color



- screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection 90°
- lift system
- color black, mounting flange
- with alternative face, wire entry codeable side perpendicular to plug direction

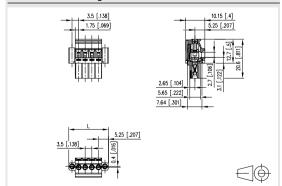
### Technical data

c Tius V / A / AWG 300 / 10 / 28 - 16 10 A / 130 V / 2.5 kV / 3 / 0.08 - 1 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Pollution degree 3 2 2 500 V 500 V Rated voltage 200 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class **CTI 600** 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 16 Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 2.7 mm Protection category according to IEC 60529 IP 20

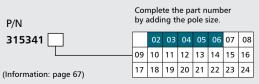
7 mm

black

### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 10.5 mm (0.413 in.)

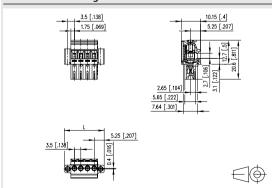


Standard pole sizes

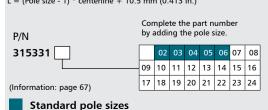
### **Dimensional drawing**

Min. insul. strip length

Color



L = (Pole size - 1) \* centerline + 10.5 mm (0.413 in.)





for RP013xxVBWN	Page
PT113xxHBBN (Type 182)	150

METZ

PT113xxVBBN (Type 183) 154

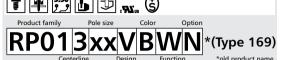
Accessories	Pag
for RP013xxVBWN	
720243	296
720242	207

### **Pin Headers**

for RP033xxVBLC	Page
PR043xxHBBN (Type 188)	146
PT093xxHBBN (Type 342)	149
PR043xxVBBN (Type 189)	151

PT093xxVBBN (Type 343) 154





- · screw type terminal block, pluggable
- centerline 3.50 mm, direction of connection vertical 0°
- · wire protector
- · color black
- · wire entry codeable side perpendicular to plug direction

### **Technical data**

c <b>Ali</b> us V / A / AWG	250 / 10 / 28 - 16
<b>A</b>	/ 0.08 - 1 mm <sup>2</sup> / IEC 61984
9 371, 123 1, 2.3 11, 3	
Overvoltage category	III III II
Pollution degree	3 2 2
Rated voltage	160 V 400 V 400 V
Rated test voltage	2.5 kV 2.5 kV 2.5 kV
Insulating material class	CTI 600
Rated wiring solid wire	0.08 - 1.5 mm <sup>2</sup>
Rated wiring stranded wire	0.08 - 1 mm <sup>2</sup>
Rated wiring solid wire	AWG 28 - 16
Rated wiring stranded wire	AWG 28 - 16
Clearance and creepage distar	ices 2 mm
Protection category according	
to IEC 60529	IP 20
Min. insul. strip length	5 mm
Color	black





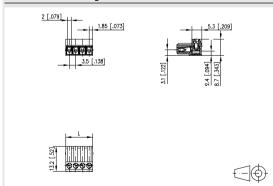
- screw type terminal block, pluggable
- $\bullet\,$  centerline 3.50 mm, direction of connection vertical  $0^\circ$
- lift system, fittable without loss of poles
- color black
- wire entry codeable side perpendicular to plug direction

### **Technical data**

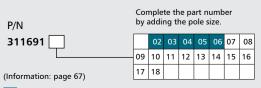
c <b>AL</b> us V / A / AWG	300 / 8 / 28 -	16	
9 A / 125 V / 2.5 kV / 3	/ 0.08 - 1.5 m	m² / IEC	61984
Overvoltage category	III	Ш	II
Pollution degree	3	2	2
Rated voltage	160 V	400 V	400 V
Rated test voltage	2.5 kV	2.5 kV	2.5 k\
Insulating material class	CTI 600		
Rated wiring solid wire	0.08 - 1	.5 mm²	
Rated wiring stranded wire	0.08 - 1	.5 mm²	
Rated wiring solid wire	AWG 28	3 - 16	
Rated wiring stranded wire	AWG 28	3 - 16	
Clearance and creepage distar	nces 2.2 mm		
Protection category according to IEC 60529	IP 20		
Min. insul. strip length	6 mm		

black

### **Dimensional drawing**



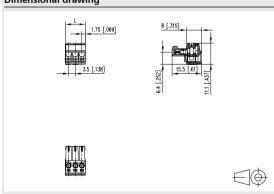
L = (Pole size - 1) \* centerline + 3.7 mm (0.146 in.)



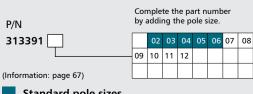
Standard pole sizes

### **Dimensional drawing**

Color



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)







Page

### **Pin Headers** for RP034xxHBLN

PR044xxHBBN (Type 190)	155
PT094xxHBBN (Type 382)	156
PR044xxVBBN (Type 191)	157
PT094xxVBBN (Type 383)	158

### **Pin Headers**

TOT KPU34XXHBLO	Page
PR044xxHBBN (Type 190)	155
PT094xxHBBN (Type 382)	156
PR044xxVBBN (Type 191)	157

PT094xxVBBN (Type 383) 158





- · screw type terminal block, pluggable
- centerline 3.81 mm, direction of connection 90°
- · lift system
- · color black
- wire entry uncodeable side perpendicular to plug direction

### Technical data

c Wus V / A / AWG 300 / 11 / 28 - 16 9 A / 160 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.0 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 14 AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 2.9 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 7 mm Color black



- screw type terminal block, pluggable
- centerline 3.81 mm, direction of connection 90°
- · lift system
- color black
- wire entry codeable side perpendicular to plug direction

### Technical data

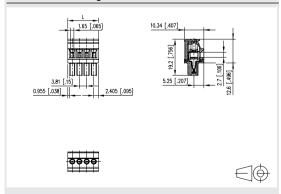
**Dimensional drawing** 

1.65 [.065]

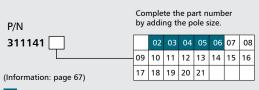
2,405 [.095]

c Rus V / A / AWG 300 / 11 / 28 - 16 9 A / 160 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution dearee 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.0 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> AWG 28 - 14 Rated wiring solid wire AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 2.9 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 7 mm Color black

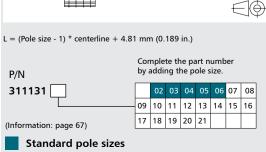
### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 4.81 mm (0.189 in.)



RIA CONNECT BTR NETCOM









for RP034xxVBLN	Pag
PR044xxHBBN (Type 190)	155
PT094xxHBBN (Type 382)	156
PR044xxVBBN (Type 191)	157
PT094xxVBBN (Type 383)	158

#### **Pin Headers**

for RP034xxVBLF	Page
PR044xxHBBF (Type 390)	155
PT094xxHBBF (Type 392)	156
PR044xxVBBF (Type 391)	157
PT094xxVBBF (Type 393)	158



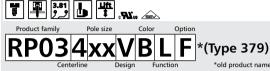


- · screw type terminal block, pluggable
- centerline 3.81 mm, direction of connection vertical 0°
- · lift system
- color black
- wire entry uncodeable side perpendicular to plug direction

#### Technical data

c Wus V / A / AWG 300 / 8 / 28 - 16 9 A / 160 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution dearee 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 22 - 16 Rated wiring stranded wire Clearance and creepage distances 3.5 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 7 mm Color black



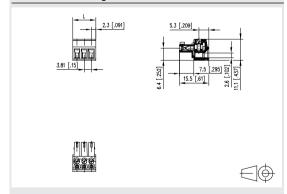


- screw type terminal block, pluggable
- centerline 3.81 mm, direction of connection vertical 0°
- lift system
- color black, mounting flange
- wire entry uncodeable side perpendicular to plug direction

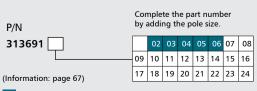
#### **Technical data**

c Rus V / A / AWG 300 / 8 / 28 - 16 9 A / 160 V / 2.5 kV / 3 / 0.08 - 1.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution dearee 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 22 - 16 Rated wiring stranded wire Clearance and creepage distances 3.5 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 7 mm Color black

#### **Dimensional drawing**

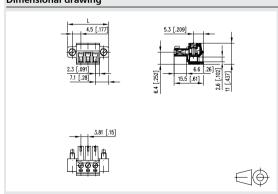


L = (Pole size - 1) \* centerline + 4.6 mm (0.181 in.)

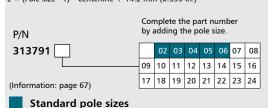


Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 14.2 mm (0.559 in.)







for RP025xxIBWC	Pag
PT055xxHBHC (Type 039)	163
PR015xxVBHC (Type 017)	166
PR015xxVBVC (Type 027)	166
PM035xxVBHC (Type 417)	170
PT065xxVBEN (Type 041)	172

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for RP025xxIBWC	
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710085	285
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PT065xxVBVN (Type 042) 172

#### **Pin Headers**

716846

for RP025xxIBWU	Page
PT055xxHBHC (Type 039)	163
PR015xxVBHC (Type 017)	166
PR015xxVBVC (Type 027)	166
PM035xxVBHC (Type 417)	170
PT065xxVBEN (Type 041)	172
PT065xxVBVN (Type 042)	172

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for RP025xxIBWU 750150	286
750151	286
710121	290
710122	290
716846	293



- · screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- wire protector, fittable without loss of poles
- · color black

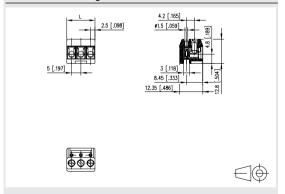
293

• wire entry perpendicular to plug direction, lamella

#### **Technical data**

c Nus V / A / AWG	300 / 15 /	22 - 12		
10 A / 250 V / 2.5 kV / 3 /	0.33 - 2.	5 mm² / IE0	C 61984	
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Rated voltage	160 V	400 V	400 V	
Rated test voltage	2.5 kV	2.5 kV	2.5 kV	
Insulating material class	CTI 60	0		
Rated wiring solid wire	0.33 -	2.5 mm <sup>2</sup>		
Rated wiring stranded wire	0.33 -	2.5 mm <sup>2</sup>		
Rated wiring solid wire	AWG	AWG 22 - 12		
Rated wiring stranded wire	AWG	AWG 22 - 12		
Clearance and creepage distance	es 2.3 m	m		
Protection category according	10.20			
to IEC 60529	IP 20			
Min. insul. strip length	6 mm			
Color	black			

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

P/N	Complete the part number by adding the pole size.							
310071		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 67)	17	18	19	20	21	22	23	24

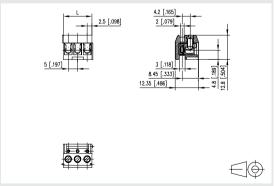


- screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- · wire protector, modular
- · color black
- wire entry perpendicular to plug direction, lamella

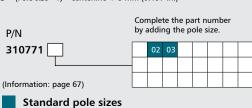
#### **Technical data**

c <b>AL</b> us V / A / AWG	300	) / 15 / 22	2 - 14	
10 A / 250 V / 2.5 kV / 3	/ 0.	33 - 2.5 ı	mm² / IEC	61984
Overvoltage category		III	Ш	II
Pollution degree		3	2	2
Rated voltage		160 V	400 V	400 V
Rated test voltage		2.5 kV	2.5 kV	2.5 kV
Insulating material class		CTI 600		
Rated wiring solid wire		0.33 - 2	.0 mm <sup>2</sup>	
Rated wiring stranded wire		0.33 - 2	.0 mm <sup>2</sup>	
Rated wiring solid wire		AWG 22	! - 14	
Rated wiring stranded wire		AWG 22	! - 14	
Clearance and creepage distance	es	2.3 mm		
Protection category according		ID 00		
to IEC 60529		IP 00		
Min. insul. strip length		6 mm		
Color		black		

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)





# METZ

#### **Pin Headers**

**Accessories** 

710122

716846

for RP025xxHBWC	Page
PT055xxHBHC (Type 039)	163
PR015xxVBHC (Type 017)	166
PR015xxVBVC (Type 027)	166
PM035xxVBHC (Type 417)	170
PT065xxVBEN (Type 041)	172
PT065xxVBVN (Type 042)	172

for RP025xxHBWC 710084	285
710085	285
710121	290
710122	290
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Accessories	Page
710084	285
710085	285
710121	290



- · screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- · color black

Page

290 293 • Wire entry perpendicular to plug direction

#### **Technical data**

c <b>Pl</b> us V / A / AWG	300 / 10 / 28 - 12	
10 A / 250 V / 2.5 kV / 3	/ 0.33 - 2.5 mm² / IEC 6198	34
Overvoltage category	III III II	
Pollution degree	3 2 2	
Rated voltage	160 V 400 V 400	V
Rated test voltage	2.5 kV 2.5 kV 2.5 k	٠V
Insulating material class	CTI 600	
Rated wiring solid wire	0.08 - 2.5 mm <sup>2</sup>	
Rated wiring stranded wire	0.08 - 2.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 28 - 12	
Rated wiring stranded wire	AWG 28 - 12	
Clearance and creepage distance	es 2.3 mm	
Protection category according		
to IEC 60529	IP 00	
Min. insul. strip length	6 mm	
Color	black	



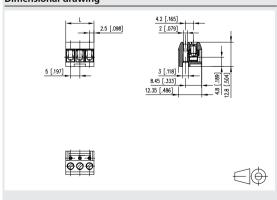


- screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- wire protector, fittable without loss of poles
- color black
- wire entry perpendicular to plug direction, factory inserted

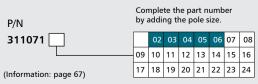
#### **Technical data**

c <b>Ni</b> us V / A / AWG	300	/ 10 / 28	3 - 12	
10 A / 250 V / 2.5 kV / 3	/ 0.3	3 - 2.5 r	mm² / IEC	61984
Overvoltage category	- 1	II	III	II
Pollution degree	3	3	2	2
Rated voltage	•	160 V	400 V	400 V
Rated test voltage	2	2.5 kV	2.5 kV	2.5 kV
Insulating material class	(	CTI 600		
Rated wiring solid wire	(	0.08 - 2.	.5 mm²	
Rated wiring stranded wire	(	0.08 - 2.	.5 mm²	
Rated wiring solid wire	-	AWG 28	- 12	
Rated wiring stranded wire	-	AWG 28	- 12	
Clearance and creepage distance	es 2	2.3 mm		
Solder pin dimension	•	1.0 x 1.0	) mm	
Recommended pc board hole d	ia. 🤉	ฮ 1.5 mı	m	
Solder pin length	4	4.3 mm		
Protection category according				
to IEC 60529		P 00		
Min. insul. strip length		5 mm		
Color	ŀ	olack		

#### **Dimensional drawing**

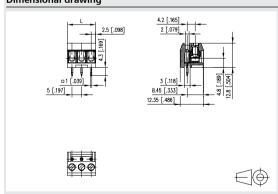


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

#### **Dimensional drawing**

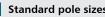


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

Standard pole sizes









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PR055xxVBHC (Type 048)	168	

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750314	287
720159	291

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for RP025xxIBLC	Page
PR015xxVBVC (Type 027)	166

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for RP025xxIBLC 750313	287
750314	287
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716846	293



Product family Pole size Color Option

RP025 XXHBLC \*(Type 207)

Centerline Design Function \*old product name

- · screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- lift system, fittable without loss of poles
- · color black
- · Wire entry perpendicular to plug direction

#### **Technical data**

c <b>AL'</b> us V / A / AWG	300 / 15 / 28	3 - 12	
10 A / 250 V / 2.5 kV / 3	/ 0.08 - 2.5	mm² / IEC	61984
Overvoltage category	Ш	Ш	II
Pollution degree	3	2	2
Rated voltage	250 V	630 V	630 V
Rated test voltage	4.0 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Rated wiring solid wire	0.08 - 2	.5 mm <sup>2</sup>	
Rated wiring stranded wire	0.08 - 2	.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 28	3 - 12	
Rated wiring stranded wire	AWG 28	3 - 12	
Clearance and creepage distance	es 3.2 mm		
Protection category according			
to IEC 60529	IP 20		
Min. insul. strip length	6 mm		
Color	black		



- · screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- lift system, fittable without loss of poles
- · color black
- · wire entry perpendicular to plug direction, lamella

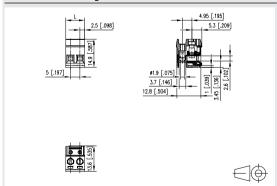
#### **Technical data**

c Sus V / A / AWG 300 / 15 / 26 - 12 10 A / 250 V / 2.5 kV / 3 / 0.12 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш П Pollution degree 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.13 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.13 - 2.5 mm<sup>2</sup> AWG 26 - 12 Rated wiring solid wire AWG 26 - 12 Rated wiring stranded wire Clearance and creepage distances 3.2 mm Protection category according IP 20

8 mm

black

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

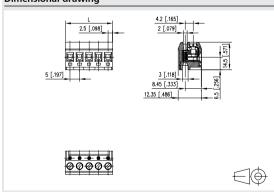
						er	
	02	03	04	05	06	07	08
09	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
	by a	02 - 09 10	02 03 -09 10 11	by adding the p  02 03 04  09 10 11 12	by adding the pole s 02 03 04 05 09 10 11 12 13	by adding the pole size.    02   03   04   05   06	02 03 04 05 06 07 09 10 11 12 13 14 15

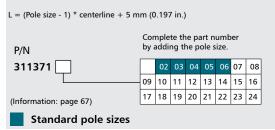
Standard pole sizes

#### **Dimensional drawing**

to IEC 60529 Min. insul. strip length

Color









for RP095xxRBWC Page
PM025xxVBHC (Type 318) 167

PR035xxVBHC (Type 046) 168

#### **Pin Headers**

for RP095xxBBWC Page
PM025xxVBHC (Type 318) 167

PR035xxVBHC (Type 046) 168



- screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- color black
- pluggable, top side pin insertion, snap-in technique for mounting into a housing

#### **Technical data**

c Tius V / A / AWG 300 / 5 / 28 - 20 13.5 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш П Pollution degree 3 2 2 800 V 800 V Rated voltage 320 V Rated test voltage 4 kV 4.0 kV Insulating material class **CTI 600** 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 16 Rated wiring stranded wire AWG 28 - 16 Clearance and creepage distances 4.15 mm Protection category according IP 20 to IEC 60529 6 mm Min. insul. strip length

black



- screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- wire protector, fittable without loss of poles
- color black

\*old product name

· flat bottom for minimal installation height

#### **Technical data**

**2 X us** V / A / AWG 300 / 5 / 28 - 20

2 13.5 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984

Overvoltage category III III II

 Pollution degree
 3
 2
 2

 Rated voltage
 320 V
 800 V
 800 V

 Rated test voltage
 4 kV
 4.0 kV
 4 kV

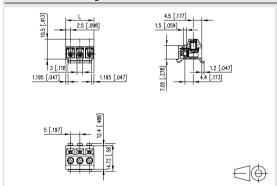
Insulating material class CTI 600
Rated wiring solid wire 0.08 - 2.5 mm²
Rated wiring stranded wire 0.08 - 2.5 mm²
Rated wiring solid wire AWG 28 - 16
Rated wiring stranded wire AWG 28 - 16

Clearance and creepage distances 4.15 mm Protection category according

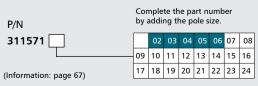
rotection category according to IEC 60529 IP 20
Min. insul. strip length 6 mm
Color black

#### **Dimensional drawing**

Color

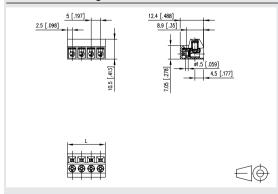


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

Complete the part number by adding the pole size.

P/N

311571 -002730 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 (Information: page 67)

oole sizes Standard pole sizes





for RP095xxHBWC	Page	
PM025xxVBHC (Type 318)	167	

PR035xxVBHC (Type 046) 168

## Pin Headers

IOI III O I SAXVVBVVC		ı agı
PT045xxHBEC (Type 02	29)	161
PT045xxHBBN (Type 03	30)	162
PT045xxHBVC (Type 03	31)	162

Ш	PT045xxVBEC (Type 019)	171

PT045xxVBBN (Type 020) 171

# Accessories Page for RP015xxWBWC

for RP015xxWBWC 716906 293





- · screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- color black
- · with ridge

#### Technical data

c Wus V / A / AWG 300 / 5 / 28 - 20 13.5 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring solid wire AWG 28 - 16 AWG 28 - 16 Rated wiring stranded wire Clearance and creepage distances 4.15 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 6 mm Color black



- screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- wire protector, fittable without loss of poles
- color black
- wire entry uncodeable side parallel to plug direction, lamella

#### **Technical data**

c Mus V / A / AWG	300 / 15 /	22 - 12	
13.5 A / 150 V / 2.5 kV / 3	/ 0.08 - 2.	5 mm² / I	EC 6198
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	125 V	320 V	320 V
Rated test voltage	2.5 kV	2.5 kV	2.5 kV
Insulating material class	CTI 600		
Pated wiring colid wire	0 22 2	E mm?	

Rated wiring solid wire

Rated wiring stranded wire

Rated wiring stranded wire

Rated wiring solid wire

Rated wiring solid wire

Rated wiring stranded wire

AWG 22 - 12

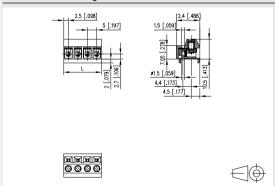
Rated wiring stranded wire

Clearance and creepage distances

1.9 mm

Protection category according to IEC 60529 IP 20 Min. insul. strip length 6 mm Color black

#### **Dimensional drawing**



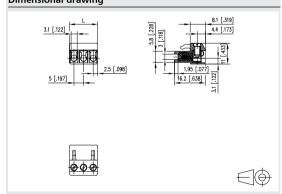
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

P/N Solution by adding the pole size.

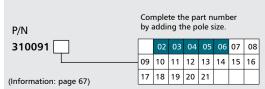
311571 -002740 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 (Information: page 67) 17 18 19 20 21 22 23 24

Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes



# METZ

#### **Pin Headers**

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PT045xxHBEC (Type 029)	161
PT045xxHBBN (Type 030)	162
PT045xxHBVC (Type 031)	162
PT045xxVBEC (Type 019)	171
PT045xxVBBN (Type 020)	171

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#### **Pin Headers**

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PR065xxHBBN (Type 176)	159
PR075xxHBEL (Type 337)	160
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PT105xxHGDN (Type 280)	163
PT115xxHBEC (Type 329)	164
PT115xxHBBN (Type 330)	164
PT165xxHGDN (Type 276)	165
PR065xxVBEC (Type 477)	169
PR065xxVBBN (Type 177)	169
PT105xxVGDN (Type 278)	173
PT115xxVBEC (Type 319)	173
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PT175xxVGDN (Type 270) 175

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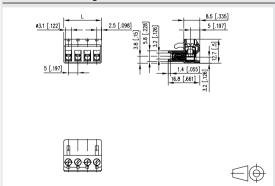


- · screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- lift system, fittable without loss of poles
- · color black
- · wire entry uncodeable side parallel to plug direction,

#### **Technical data**

c <b>Ni</b> us V / A / AWG	300 / 15 / 2	2 - 12		
13.5 A / 320 V / 4 kV / 3	/ 0.08 - 2.5	mm² / IEO	6198	
Overvoltage category	III	Ш	II	
Pollution degree	3	2	2	
Rated voltage	320 V	800 V	800 V	
Rated test voltage	4 kV	4.0 kV	4 kV	
Insulating material class	CTI 600			
Rated wiring solid wire	0.33 - 2	0.33 - 2.5 mm <sup>2</sup>		
Rated wiring stranded wire	0.33 - 2	0.33 - 2.5 mm <sup>2</sup>		
Rated wiring solid wire	AWG 2	AWG 22 - 12		
Rated wiring stranded wire	AWG 2	2 - 12		
Clearance and creepage distance	es 4.7 mm	1		
Protection category according				
to IEC 60529	IP 20			
Min. insul. strip length	6 mm			
Color	black			

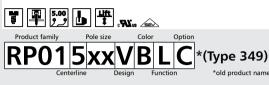
#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

P/N	Complete the part number by adding the pole size.							
310491		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 67)	17	18	19	20	21	22	23	24



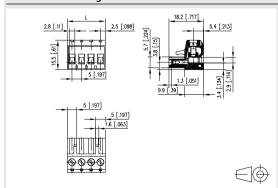


- screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- lift system, fittable without loss of poles
- color black
- wire entry codeable side perpendicular to plug direction

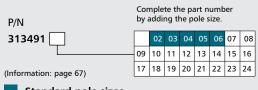
#### **Technical data**

c Rus V / A / AWG 300 / 16 / 28 - 12 13.5 A / 320 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш П Pollution degree 2 2 3 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 Rated wiring solid wire AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 3.6 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 8 mm Color black

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes





#### **Pin Headers** for RP015xxSBLC

PR065xxHBEC (Type 476)	159
PR065xxHBBN (Type 176)	159
PR075xxHBEL (Type 337)	160
PR075xxHBER (Type 338)	161
PT105xxHGDN (Type 280)	163
PT115xxHBEC (Type 329)	164

Æ	PT115xxHBBN (Type 330)	164

PT165xxHGDN (Type 276)	165
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Ш	PR065xxVBEC (Type 477)	169
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ш	PR065xxVBBN (Type 177)	16
144	1 1003XXVBBI4 (Type 177)	

PT105xxVGDN (Type 278) 1	73
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PT115xxVBEC (Type 319)	173
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PT115xxVBBN (Type 320)	174
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PT 165XXVGDN (Type 274)	1/5
PT175xxVGDN (Type 270)	175

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#### **Pin Headers**

700025

for RP015xxVBLF	Pag
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PT115xxHBBF (Type 336)	165
PR065xxVBBF (Type 397)	170
PT115xxVBBF (Type 335)	174

#### Accessories Page for RP015xxVBLF

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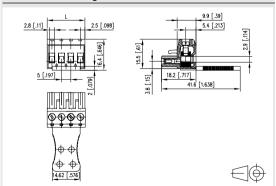
وروا 📳 📑	R. T 🔃	Lus SEX	
Product family	Pole size	Color Optio	n
RP01	5xxS	BLC	*(Type 350)
Cent	terline Desig	n Function	*old product name

- · screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- lift system, fittable without loss of poles
- wire entry uncodeable side parallel to plug direction, drawoff accessory

#### **Technical data**

c <b>%</b> us V / A / AWG 30	300 / 16 / 28 - 12					
13.5 A / 320 V / 4 kV / 3 / 0.08 - 2.5 mm <sup>2</sup> / IEC 61984						
Overvoltage category	III III II					
Pollution degree	3	2	2			
Rated voltage	250 V	630 V	630 V			
Rated test voltage	4.0 kV	4.0 kV	4 kV			
Insulating material class	CTI 600	CTI 600				
Rated wiring solid wire	0.08 - 2	0.08 - 2.5 mm <sup>2</sup>				
Rated wiring stranded wire	0.08 - 2.5 mm <sup>2</sup>					
Rated wiring solid wire	AWG 28 - 12					
Rated wiring stranded wire	AWG 28 - 12					
Clearance and creepage distances	3.6 mm					
Protection category according	ID 00					
to IEC 60529	IP 00					
Min. insul. strip length	8 mm					
Color	black					

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

P/N	Complete the part number by adding the pole size.							
313501		03	04	05	06	07	08	09
	10	11	12					
(Information: page 67)								
Chandand male since								



- screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- lift system
- color black, mounting flange
- wire entry codeable side perpendicular to plug direction

#### **Technical data**

c**Tu**s V / A / AWG 300 / 16 / 28 - 12

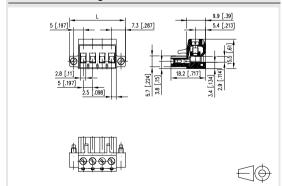
13.5 A / 320 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution degree 2 2 Rated voltage 250 V 630 V 630 V

Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 Rated wiring solid wire AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 3.6 mm

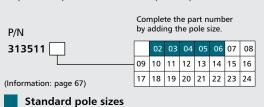
Protection category according

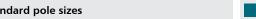
IP 20 to IEC 60529 Min. insul. strip length 8 mm Color black

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.6 mm (0.575 in.)







# CONNECT

#### **Pin Headers**

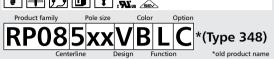
for RP085xxVBLC	Page
PR075xxHBEL (Type 337)	160
PR075xxHBER (Type 338)	161
PT045xxHBBN (Type 030)	162
PT045xxHBVC (Type 031)	162
PT045xxVBBN (Type 020)	171

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PT045xxHBBN (Type 030)	162
PT045xxHBVC (Type 031)	162
PT045xxVBEC (Type 019)	171
PT045xxVBBN (Type 020)	171



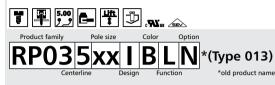


- · screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- lift system, fittable without loss of poles
- color black

#### **Technical data**

c Nus V / A / AWG	300 / 17 / 24	- 12					
12 A / 250 V / 4 kV / 3 / 0.08 - 2.5 mm <sup>2</sup> / IEC 61984							
Overvoltage category	Ш	III III II					
Pollution degree	3	2	2				
Rated voltage	400 V	1000 V	1000 V				
Rated test voltage	6.0 kV	6.0 kV	6 kV				
Insulating material class	CTI 600	CTI 600					
Rated wiring solid wire	0.2 - 2.	0.2 - 2.5 mm <sup>2</sup>					
Rated wiring stranded wire	0.2 - 2.	0.2 - 2.5 mm <sup>2</sup>					
Rated wiring solid wire	AWG 2	AWG 24 - 12					
Rated wiring stranded wire	AWG 2	AWG 24 - 12					
Clearance and creepage distar	ices 5.7 mm	5.7 mm					
Protection category according							
to IEC 60529	IP 20						
Min. insul. strip length	8 mm						
Color	black	black					





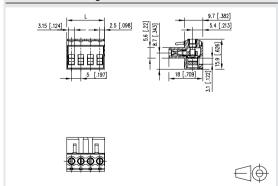
- screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- lift system, fittable without loss of poles
- color black
- wire entry uncodeable side perpendicular to plug direction, lamella

#### **Technical data**

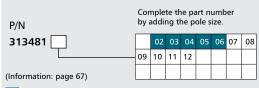
c <b>Al</b> us V / A / AWG	300 / 15 /	22 - 12	
13.5 A / 320 V / 4 kV / 3	/ 0.08 - 2.5	5 mm² / IE0	C 61984
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	250 V	630 V	630 V
Rated test voltage	4.0 kV	4.0 kV	4 kV
Insulating material class	CTI 60	0	
Rated wiring solid wire	0.33 -	2.5 mm <sup>2</sup>	
Rated wiring stranded wire	0.33 -	2.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 2	22 - 12	
Rated wiring stranded wire	AWG 2	22 - 12	
Clearance and creepage distance	es 3.4 mi	m	
Protection category according to IEC 60529	IP 20		
Min. insul. strip length	7 mm		

black

#### **Dimensional drawing**



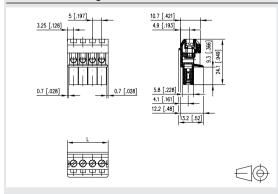
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

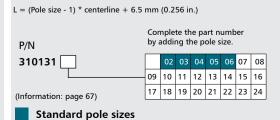


Standard pole sizes

#### **Dimensional drawing**

Color









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PR065xxHBEC (Type 476)	159
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PR075xxHBEL (Type 337)	160
PR075xxHBER (Type 338)	161
PT115xxHBEC (Type 329)	164
PT115xxHBBN (Type 330)	164
PR065xxVBEC (Type 477)	169
PR065xxVBBN (Type 177)	169
PT115xxVBEC (Type 319)	173

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PT115xxVBBN (Type 320) 174

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PR065xxHBBN (Type 176)	159
PR075xxHBEL (Type 337)	160
PR075xxHBER (Type 338)	161
PT105xxHGDN (Type 280)	163
PT115xxHBEC (Type 329)	164
PT115xxHBBN (Type 330)	164

PR065xxVBEC (Type 477)	169
PR065xxVBBN (Type 177)	169
PT105xxVGDN (Type 278)	173
PT115xxVBEC (Type 319)	173

PT165xxHGDN (Type 276) 165

Ф	PT115xxVBBN (Type 320)	174
Щ	PT165xxVGDN (Type 274)	175

н	PT175xxVGDN (Type 270)	175

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for RP035xxHBLD 700025 298



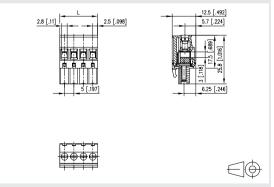


- · screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- lift system, fittable without loss of poles
- · color black
- wire entry uncodeable side perpendicular to plug direction

#### **Technical data**

c <b>Al</b> us V / A / AWG	300 / 12 /	28 - 12	
13.5 A / 320 V / 4 kV / 3	/ 0.08 - 2.	5 mm² / IE	C 61984
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	250 ∖	630 V	630 V
Rated test voltage	4.0 k	√ 4.0 kV	4 kV
Insulating material class	CTI 6	00	
Rated wiring solid wire	0.08	- 2.5 mm <sup>2</sup>	
Rated wiring stranded wire	0.08	2.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG	28 - 12	
Rated wiring stranded wire	AWG	28 - 12	
Clearance and creepage distance	es 3.2 m	ım	
Protection category according	ID 20		
to IEC 60529	IP 20		
Min. insul. strip length	8 mm	1	
Color	black		

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

P/N		nple addi					er	
313131		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 67)	17	18	19	20	21	22	23	24

Standard pole sizes



- screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection 90°
- lift system, fittable without loss of poles
- color black
- wire entry codeable side perpendicular to plug direction

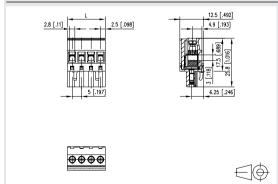
#### **Technical data**

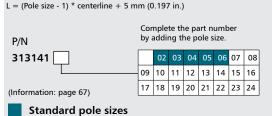
c <b>%</b> us V / A / AWG 30	0/12/2	8 - 12	
13.5 A / 320 V / 4 kV / 3 / 0	.08 - 2.5	mm² / IEG	61984
Overvoltage category	Ш	III	II
Pollution degree	3	2	2
Rated voltage	250 V	630 V	630 V
Rated test voltage	4.0 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Rated wiring solid wire	0.08 - 2	.5 mm <sup>2</sup>	
Rated wiring stranded wire	0.08 - 2	5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 28	3 - 12	
Rated wiring stranded wire	AWG 28	3 - 12	
Clearance and creepage distances	3.2 mm	1	
Protection category according to IEC 60529	IP 20		
Min. insul. strip length	8 mm		

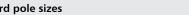
black

#### **Dimensional drawing**

Color











- Centerline Design Function
   screw type terminal block, pluggable
- centerline 5.00 mm, direction of connection vertical 0°
- lift system, fittable without loss of poles
- · color gray

METZ

#### **Technical data**

#### c **Ni**us V / A / AWG 300 / 6 / 24 - 12

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 250.0 V
 630.0 V
 630.0 V

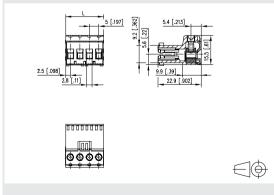
 Rated test voltage
 4.0 kV
 4.0 kV
 4.0 kV

Insulating material class CTI 600
Rated wiring solid wire 0.2 - 2.5 mm²
Rated wiring stranded wire 0.2 - 2.5 mm²
Rated wiring solid wire AWG 24 - 12
Rated wiring stranded wire AWG 24 - 12
Clearance and creepage distances 3.2 mm

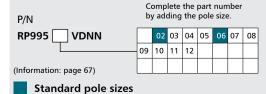
Protection category according

to IEC 60529 IP 20
Min. insul. strip length 6.5 mm
Color gray

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)







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PR016xxVBHC (Type 018)	179
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for RP026xxIBWU 750150	286

#### **Pin Headers** for RP016xxVBLC

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PT106xxHGDN (Type 292)	177
PT116xxHBEC (Type 229)	177
PT116xxHBBN (Type 230)	178
PR066xxVBEC (Type 479)	182
PR066xxVBBN (Type 179)	182
PT106xxVGDN (Type 290)	183
PT116xxVBEC (Type 219)	183

PT116xxVBBN (Type 220) 184

**Accessories** 

for RP016xxVBLC 700025

4444

\*(Type 079)

- · screw type terminal block, pluggable
- centerline 5.08 mm, direction of connection 90°
- wire protector, modular
- · color black

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Page

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• wire entry perpendicular to plug direction, lamella

#### **Technical data**

c <b>Mus</b> V / A / AWG 300 / 15 / 22 - 14				
🕏 10 A / 125 V / 2.5 kV / 3	/ 0.33 - 2.5	mm² / IE0	C 61984	
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Rated voltage	160 V	400 V	400 V	
Rated test voltage	2.5 kV	2.5 kV	2.5 kV	
Insulating material class	CTI 600	)		
Rated wiring solid wire	0.33 - 2	2.0 mm <sup>2</sup>		
Rated wiring stranded wire	0.33 - 2	2.0 mm <sup>2</sup>		
Rated wiring solid wire	AWG 2	2 - 14		
Rated wiring stranded wire	AWG 2	2 - 14		
Clearance and creepage distance	es 2.3 mn	า		
Protection category according				
to IEC 60529	IP 00			
Min. insul. strip length	6 mm			
Color	black			

screw type terminal block, pluggable

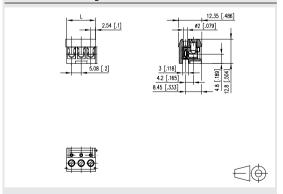
- $\bullet\,$  centerline 5.08 mm, direction of connection vertical  $0^\circ$
- lift system, fittable without loss of poles
- color black
- wire entry codeable side perpendicular to plug direction

#### **Technical data**

c <b>Pli</b> us V / A / AWG	300	/ 16 / 28	3 - 12	
13.5 A / 320 V / 4 kV / 3	/ 0.0	)8 - 2.5 r	mm² / IEC	61984
Overvoltage category		III	Ш	II
Pollution degree		3	2	2
Rated voltage		250 V	630 V	630 V
Rated test voltage		4.0 kV	4.0 kV	4 kV
Insulating material class		CTI 600		
Rated wiring solid wire		0.08 - 2	.5 mm²	
Rated wiring stranded wire		0.08 - 2	.5 mm²	
Rated wiring solid wire		AWG 28	- 12	
Rated wiring stranded wire		AWG 28	- 12	
Clearance and creepage distance	es	3.6 mm		
Protection category according to IEC 60529		IP 20		
Min. insul. strip length		8 mm		

black

#### **Dimensional drawing**



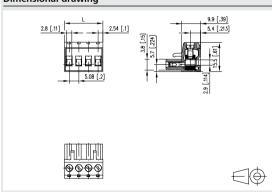
L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)

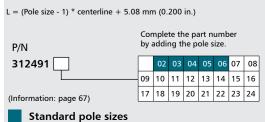


Standard pole sizes

#### **Dimensional drawing**

Color







# METZ

#### **Pin Headers**

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PR066xxHBBN (Type 178)	176
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#### **Pin Headers**

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#### **Accessories** Page for RP016xxVBLF 700025 298



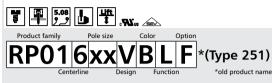


- · screw type terminal block, pluggable
- centerline 5.08 mm, direction of connection vertical 0°
- lift system, fittable without loss of poles
- · wire entry uncodeable side parallel to plug direction, drawoff accessory

#### **Technical data**

c <b>%</b> us V / A / AWG 30	0/16/2	8 - 12		
13.5 A / 320 V / 4 kV / 3 / 0	.08 - 2.5	mm² / IE0	C 61984	
Overvoltage category	Ш	III	II	
Pollution degree	3	2	2	
Rated voltage	250 V	630 V	630 V	
Rated test voltage	4.0 kV	4.0 kV	4 kV	
Insulating material class	CTI 600			
Rated wiring solid wire	0.08 - 2.5 mm <sup>2</sup>			
Rated wiring stranded wire	0.08 - 2.5 mm <sup>2</sup>			
Rated wiring solid wire	AWG 28 - 12			
Rated wiring stranded wire	AWG 2	8 - 12		
Clearance and creepage distances	3.6 mm	1		
Protection category according				
to IEC 60529	IP 00			
Min. insul. strip length	8 mm			
Color	black			





- screw type terminal block, pluggable
- $\bullet\,$  centerline 5.08 mm, direction of connection vertical  $0^\circ$
- · lift system
- · color black, mounting flange
- wire entry codeable side perpendicular to plug direction

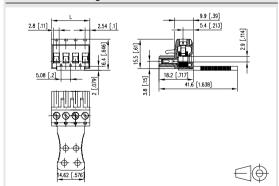
#### **Technical data**

c <b>Mu</b> s V / A / AWG	300 / 16 / 28	3 - 12	
13.5 A / 320 V / 4 kV / 3 /	0.08 - 2.5	mm² / IEC	61984
Overvoltage category	III	Ш	II
Pollution degree	3	2	2
Rated voltage	250 V	630 V	630 V
Rated test voltage	4.0 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Rated wiring solid wire	0.08 - 2	.5 mm²	
Rated wiring stranded wire	0.08 - 2	.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 28	3 - 12	
Rated wiring stranded wire	AWG 28	3 - 12	
Clearance and creepage distance	s 36 mm		

Protection category according

IP 20 to IEC 60529 Min. insul. strip length 8 mm Color black

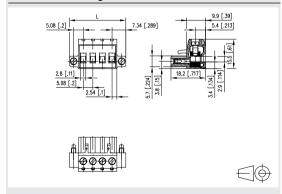
#### **Dimensional drawing**



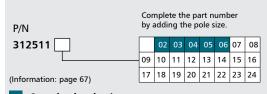
L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)

P/N			te th ng tl				er	
312501		03	04	05	06	07	08	09
	10	11	12					
(Information: page 67)								

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.68 mm (0.578 in.)



Standard pole sizes





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PT116xxHBEC (Type 229)	177
PT116xxHBBN (Type 230)	178
PR066xxVBEC (Type 479)	182
PT116xxVBEC (Type 219)	183
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PR066xxHBEC (Type 478) 176

#### **Pin Headers**

for RP036xxHBLD

U	
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FT116xxHBBN (Type 230)	178
PT166xxHGDN (Type 288)	179
PR066xxVBEC (Type 479)	182
PT116xxVBEC (Type 219)	183
PT116xxVBBN (Type 220)	184

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for RP036xxHBLD	
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**PT166xxVGDN (Type 286)** 185





- screw type terminal block, pluggable
- centerline 5.08 mm, direction of connection 90°
- lift system, fittable without loss of poles
- color black

Page

• wire entry uncodeable side perpendicular to plug direction

#### **Technical data**

c <b>AL</b> us V / A / AWG	300 / 12 / 2	8 - 12	
13.5 A / 320 V / 4 kV / 3	/ 0.08 - 2.5	mm² / IEC	61984
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	250 V	630 V	630 V
Rated test voltage	4.0 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Rated wiring solid wire	0.08 - 4	mm²	
Rated wiring stranded wire	0.08 - 2	.5 mm²	
Rated wiring solid wire	AWG 28	3 - 12	
Rated wiring stranded wire	AWG 2	3 - 12	
Clearance and creepage distance	es 3.2 mm	1	
Protection category according			
to IEC 60529	IP 20		
Min. insul. strip length	8 mm		
Color	black		

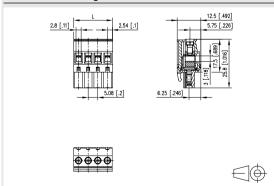
# Product family Pole size Color Option RP036xxHBLD\*(Type 214) Centerline Design Function \*old product name \*old product

- screw type terminal block, pluggable
- centerline 5.08 mm, direction of connection  $90^{\circ}$
- lift system, fittable without loss of poles
- color black
- wire entry codeable side perpendicular to plug direction

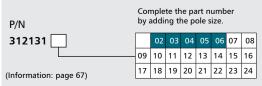
#### **Technical data**

c <b>AL</b> us V / A / AWG	300 / 12	/ 28 - 12	
13.5 A / 320 V / 4 kV / 3	/ 0.08 - 2	2.5 mm² / I	EC 61984
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	250	V 630 V	630 V
Rated test voltage	4.0	kV 4.0 k\	/ 4 kV
Insulating material class	CTI (	500	
Rated wiring solid wire	0.08	- 4 mm <sup>2</sup>	
Rated wiring stranded wire	0.08	- 2.5 mm <sup>2</sup>	2
Rated wiring solid wire	AWO	3 28 - 12	
Rated wiring stranded wire	AWO	G 28 - 12	
Clearance and creepage distance	es 3.2 i	mm	
Protection category according	IP 20	`	
to IEC 60529		-	
Min. insul. strip length	8 mi	m	
Color	blac	k	

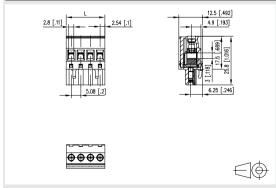
#### **Dimensional drawing**

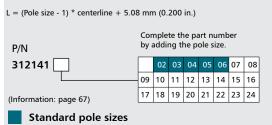


L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)



Standard pole sizes









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#### Accessories Page

for **RP036xxHBLS 700025**298





- · screw type terminal block, pluggable
- centerline 5.08 mm, direction of connection 90°
- lift system
- · color black, mounting flange
- wire entry uncodeable side perpendicular to plug direction

#### Technical data

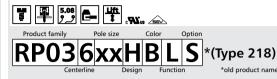
c**%** us V / A / AWG 300 / 12 / 28 - 12

13.5 A / 320 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш ш Pollution dearee 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> Rated wiring stranded wire 0.08 - 2.5 mm<sup>2</sup>

Rated wiring stranded wire 0.08 - 2.5 mr
Rated wiring solid wire AWG 28 - 12
Rated wiring stranded wire AWG 28 - 12
Clearance and creepage distances 3.2 mm

Protection category according to IEC 60529 IP 20
Min. insul. strip length 8 mm
Color black

# 00000



- screw type terminal block, pluggable
- centerline 5.08 mm, direction of connection 90°
- lift system

\*old product name

- color black, mounting flange
- wire entry codeable side perpendicular to plug direction

#### **Technical data**

**c Ni**us V / A / AWG 300 / 12 / 28 - 12

13.5 A / 320 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 250 V
 630 V
 630 V

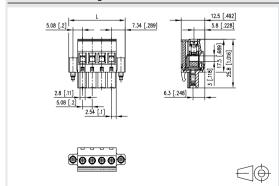
 Rated test voltage
 4.0 kV
 4.0 kV
 4 kV

Insulating material class
Rated wiring solid wire
Rated wiring stranded wire
Rated wiring solid wire
Rated wiring solid wire
Rated wiring solid wire
AWG 28 - 12
Rated wiring stranded wire
AWG 28 - 12

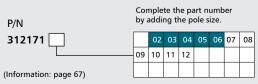
Clearance and creepage distances 3.2 mm

Protection category according to IEC 60529 IP 20 Min. insul. strip length 8 mm Color black

#### **Dimensional drawing**

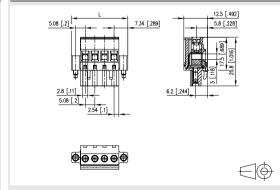


L = (Pole size - 1) \* centerline + 14.68 mm (0.578 in.)

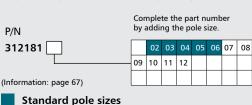


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.68 mm (0.578 in.)







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PT118xxVBEC (Type 263) 187

PT118xxVBBC (Type 264) 18

#### Accessories Page

for RP018xxVBLC 700025 298



- screw type terminal block, pluggable
- centerline 7.62 mm, direction of connection vertical 0°
- lift system, fittable without loss of poles
- color black
- wire entry codeable side perpendicular to plug direction

#### **Technical data**

**%** V/A/AWG 300/15/28-14

13.5 A / 500 V / 6 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

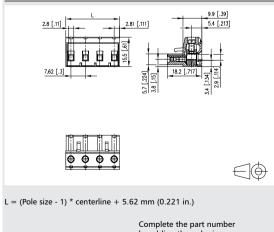
 Rated voltage
 400 V
 1000 V
 1000 V

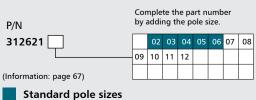
 Rated test voltage
 6.0 kV
 6.0 kV
 6 kV

Insulating material class
Rated wiring solid wire
Rated wiring stranded wire
Rated wiring solid wire
Rated wiring solid wire
Rated wiring solid wire
Rated wiring stranded wire
AWG 28 - 14
Rated wiring stranded wire

Clearance and creepage distances 6.1 mm

Protection category according to IEC 60529 IP 20 Min. insul. strip length 8 mm Color black









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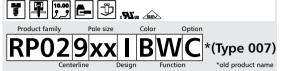
#### **Pin Headers**

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· screw type terminal block, pluggable

Clearance and creepage distances

Protection category according

Min. insul. strip length

to IEC 60529

Color

- centerline 10.00 mm, direction of connection 90°
- · wire protector, fittable without loss of poles
- color black

#### **Technical data**

c Wus V / A / AWG

10 A / 630 V / 6 kV / 3 / 0.33 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш П Ш Pollution degree 3 2 2 Rated voltage 500 V 1250 V 1250 V 6.0 kV 6.0 kV 6 kV Rated test voltage CTI 600 Insulating material class Rated wiring solid wire 0.33 - 2.5 mm<sup>2</sup> 0.33 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire

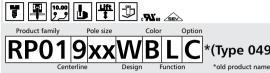
600 / 15 / 22 - 12

7.3 mm

IP 20

6 mm

black

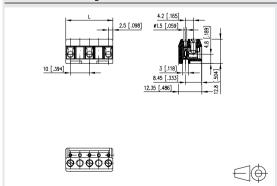


- screw type terminal block, pluggable
- centerline 10.00 mm, direction of connection vertical 0°
- lift system, fittable without loss of poles
- color black

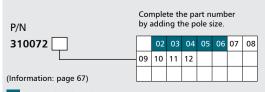
#### **Technical data**

c Sus V / A / AWG 600 / 15 / 22 - 12 13.5 A / 630 V / 6 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V 8.0 kV 8 kV Rated test voltage 8.0 kV **CTI 600** Insulating material class Rated wiring solid wire 0.33 - 2.5 mm<sup>2</sup> 0.33 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 22 - 12 AWG 22 - 12 Rated wiring stranded wire Clearance and creepage distances 9.07 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 6 mm Color black

#### Dimensional drawing

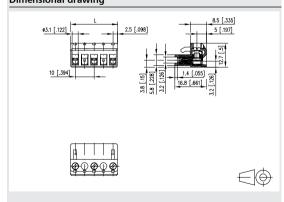


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

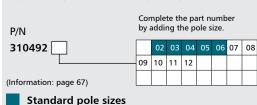


Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)







for RP039xxHBLC Page HT119xxVBBN (Type 320) 190

Accessories Page

for RP039xxHBLC 700025 298

#### Pin Headers

for RP019xxVBLC Page PT119xxVBBN (Type 320) 190

**Accessories** Page

for RP019xxVBLC 700025 298





- · screw type terminal block, pluggable
- centerline 10.00 mm, direction of connection 90°
- · lift system, fittable without loss of poles
- · color black

#### **Technical data**

c Wus V / A / AWG 600 / 12 / 28 - 12 13.5 A / 630 V / 6 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution degree 3 2 2 1600 V 1600 V Rated voltage 630 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 8.2 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 8 mm

black



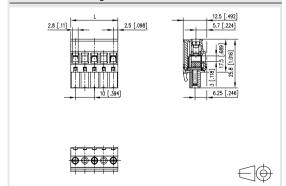
- screw type terminal block, pluggable
- centerline 10.00 mm, direction of connection vertical 0°
- lift system, fittable without loss of poles
- · color black

#### Technical data

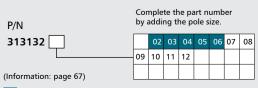
c Sus V / A / AWG 600 / 16 / 28 - 12 13.5 A / 630 V / 6 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8 kV 8.0 kV **CTI 600** Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 8.6 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 8 mm Color black

#### **Dimensional drawing**

Color

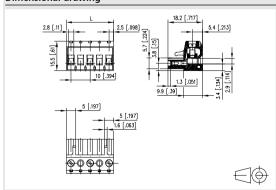


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

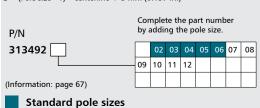


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)









for RP019xxVBLF Page FT119xxHBBF (Type 336) 189

PT119xxVBBF (Type 335) 191

#### **Accessories** Page

for RP019xxVBLF 700025 298



- · screw type terminal block, pluggable
- centerline 10.00 mm, direction of connection vertical 0°
- · lift system
- · color black, mounting flange

#### **Technical data**

c Tus V / A / AWG 600 / 16 / 28 - 12

13.5 A / 630 V / 6 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984

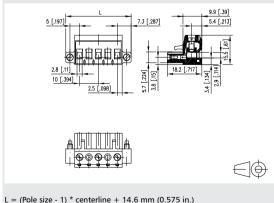
Overvoltage category Ш Ш П Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V 8.0 kV 8 kV Rated test voltage 8.0 kV

Insulating material class CTI 600 Rated wiring solid wire 0.08 - 2.5 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire

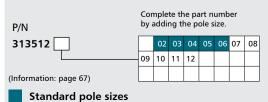
Clearance and creepage distances 8.6 mm Protection category according IP 20 to IEC 60529

Min. insul. strip length 8 mm Color black

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.6 mm (0.575 in.)







#### **Pin Headers** for BB01 Avv//BLC

TOT KPUTAXXVBLC	Pag
PT116xxVBEC (Type 219)	183
PT116xxVBBN (Type 220)	184
PT11AxxHBEC (Type 229)	192
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#### Pin Headers

for RP01AxxVBLF	Page
PT11AxxHBBF (Type 236)	193
PT11AxxVBBF (Type 235)	194

#### Accessories Page for RP01AxxVBLF 700025

298





- · screw type terminal block, pluggable
- centerline 10.16 mm, direction of connection vertical 0°
- · lift system, fittable without loss of poles
- · color black

#### **Technical data**

c Wus V / A / AWG 600 / 16 / 28 - 12 13.5 A / 630 V / 6 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш П Pollution degree 3 2 2 1600 V 1600 V Rated voltage 630 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 8.68 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 8 mm Color black

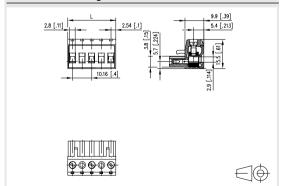
# \*(Type 251) \*old product name

- · screw type terminal block, pluggable
- centerline 10.16 mm, direction of connection vertical 0°
- · lift system
- · color black, mounting flange

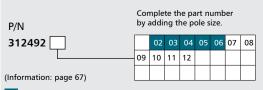
#### Technical data

c Sus V / A / AWG 600 / 16 / 28 - 12 13.5 A / 630 V / 6 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V 8.0 kV 8 kV Rated test voltage 8.0 kV **CTI 600** Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 8.68 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 8 mm Color black

#### **Dimensional drawing**

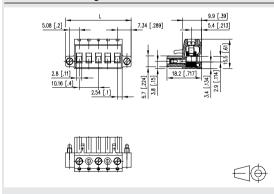


L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)

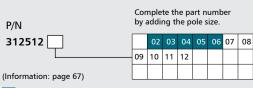


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.68 mm (0.578 in.)







# METZ

Page

#### **Pin Headers** for RP03AxxHBLC

PT11AxxHBEC (Type 229)	192
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#### **Pin Headers**

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PT11AxxHBBN (Type 230)	192
PT11AxxVBEC (Type 219)	193

#### Accessories Page

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for RP03AxxHBLD 700025 298





- · screw type terminal block, pluggable
- centerline 10.16 mm, direction of connection 90°
- lift system, fittable without loss of poles
- color black

#### **Technical data**

c <b>'N'</b> us V / A / AWG 60	0 / 12 / 2	R <sub>-</sub> 17	
^ 00	0 / 12 / 2	0 - 12	
13.5 A / 630 V / 6 kV / 3 / 0	.08 - 2.5	mm² / IEC	61984
Overvoltage category	Ш	Ш	II
Pollution degree	3	2	2
Rated voltage	630 V	1600 V	1600 V
Rated test voltage	8.0 kV	8 kV	8.0 kV
Insulating material class	CTI 600		
Rated wiring solid wire	0.08 - 4	mm²	
Rated wiring stranded wire	0.08 - 2	.5 mm <sup>2</sup>	
Rated wiring solid wire	AWG 28	3 - 12	
Rated wiring stranded wire	AWG 28	3 - 12	
Clearance and creepage distances	8.28 mr	n	
Protection category according			
to IEC 60529	IP 20		
Min. insul. strip length	8 mm		
Color	black		



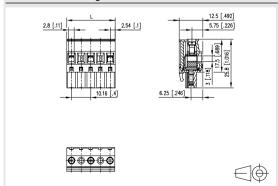


- · screw type terminal block, pluggable
- centerline 10.16 mm, direction of connection 90°
- lift system, fittable without loss of poles
- color black

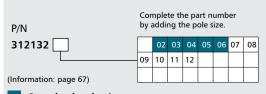
#### **Technical data**

c <b>Ali</b> us V / A / AWG	600 / 12	/ 28 - 12		
13.5 A / 630 V / 6 kV / 3	/ 0.08 - 2	.5 mm²	/ IEC	61984
Overvoltage category	III	III		II
Pollution degree	3	2		2
Rated voltage	630	V 160	0 V	1600 V
Rated test voltage	8.0 k	.V 8 k\	/ :	8.0 kV
Insulating material class	CTI 6	00		
Rated wiring solid wire	0.08	- 4 mm <sup>2</sup>		
Rated wiring stranded wire	0.08	- 2.5 mr	n²	
Rated wiring solid wire	AWG	i 28 - 12		
Rated wiring stranded wire	AWG	i 28 - 12		
Clearance and creepage distance	es 8.28	mm		
Protection category according	10.20			
to IEC 60529	IP 20			
Min. insul. strip length	8 mr	n		
Color	black	(		

#### **Dimensional drawing**

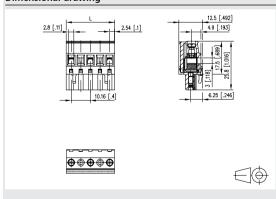


L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)

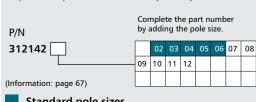


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)









for RP03AxxHBLF	Page
PT11AxxHBBF (Type 236)	193

**#** PT11AxxVBBF (Type 235) 194

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#### **Pin Headers**

for RP03AxxHBLS	Page
PT11AxxHBBF (Type 236)	193

PT11AxxVBBF (Type 235)

#### **Accessories** Page

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- · screw type terminal block, pluggable
- centerline 10.16 mm, direction of connection 90°
- · lift system
- · color black, mounting flange

#### **Technical data**

c Wus V / A / AWG 600 / 12 / 28 - 12 13.5 A / 630 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш П Pollution degree 3 2 2 1600 V 1600 V Rated voltage 630 V Rated test voltage 8.0 kV 8 kV 8.0 kV CTI 600 Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 8.28 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 8 mm Color black

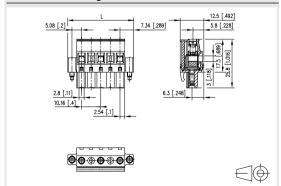


- · screw type terminal block, pluggable
- centerline 10.16 mm, direction of connection 90°
- · lift system
- · color black, mounting flange

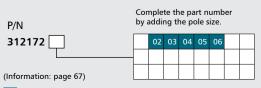
#### Technical data

c Sus V / A / AWG 600 / 12 / 28 - 12 13.5 A / 630 V / 4 kV / 3 / 0.08 - 2.5 mm<sup>2</sup> / IEC 61984 Overvoltage category Ш Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V 8.0 kV 8 kV Rated test voltage 8.0 kV **CTI 600** Insulating material class Rated wiring solid wire 0.08 - 4 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 28 - 12 AWG 28 - 12 Rated wiring stranded wire Clearance and creepage distances 8.28 mm Protection category according IP 20 to IEC 60529 Min. insul. strip length 8 mm Color hlack

#### **Dimensional drawing**

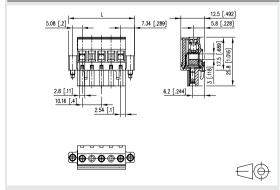


L = (Pole size - 1) \* centerline + 14.68 mm (0.578 in.)

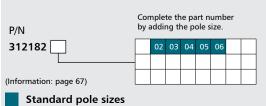


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.68 mm (0.578 in.)











#### 360272 | Single terminal block M2.6

- screw type terminal block, solderable, double solder pins
- direction of connection 90°

Protection category according

to IEC 60529

Color

- · color metal
- · open construction, screw brought down by hand (transport safety)

#### Technical data

**A**/AWG 15 / 26 - 14 Overvoltage category Ш Pollution degree 3 2 2 Rated test voltage 0.8 kV 4 kV 2.5 kV Rated wiring solid wire 0.13 - 2 mm<sup>2</sup> 0.13 - 1.5 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 26 - 14 Rated wiring stranded wire AWG 26 - 14 2 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.5 mm

IP 00

metallike





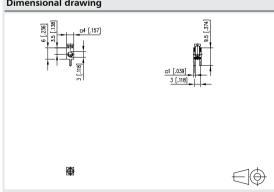
#### 360273 | Single terminal block M2.6

- screw type terminal block, solderable, double solder pins
- direction of connection 90°
- wire protector
- · color metal
- open construction, screw brought down by hand (transport safety)

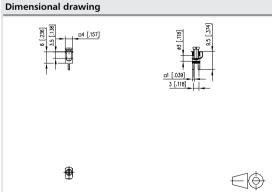
#### **Technical data**

A / AWG	15 / 26 - 14			
Overvoltage category	,	III	Ш	II
Pollution degree		3	2	2
Rated test voltage		0.8 kV	4 kV	2.5 k
Rated wiring solid wi Rated wiring strande		0.13 - 2 0.13 - 1		

Rated wiring solid wire AWG 26 - 14 Rated wiring stranded wire AWG 26 - 14 Solder pin dimension 2 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm 3.5 mm Solder pin length metallike Color



P/N	Color	Feature 1	Feature 2	
360272	metallike			



P/N	Color	Feature 1	Feature 2	
360273	metallike			









#### 360410 | Single terminal block M3

- screw type terminal block, THR solderable, double solder pins
- direction of connection  $90^{\circ}$
- color metal
- Tape & Reel packaging
- open construction, screw brought down by hand (transport safety)

#### **Technical data**

**A** A/AWG 15 / 30 - 18

Rated wiring solid wire 0.05 - 1.5 mm<sup>2</sup> 0.05 - 1.0 mm<sup>2</sup> Rated wiring stranded wire Rated wiring solid wire AWG 30 - 16 AWG 30 - 18 Rated wiring stranded wire Solder pin dimension 2 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.5 mm Protection category according IP 00 to IEC 60529 metallike Color





#### 360322 | Single terminal block M3

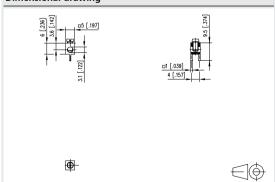
- screw type terminal block, THR solderable, double solder pins
- direction of connection 90°
- · wire protector
- · color metal
- Tape & Reel packaging
- · open construction, screw brought down by hand (transport safety)

#### **Technical data**

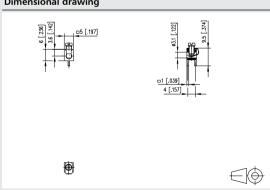
<i>8</i> 7	A / AWG	15 / 30 - 16
<b>⊕</b>	A / AWG	15 / 30 - 16

Rated wiring solid wire 0.05 - 1.5 mm<sup>2</sup> 0.05 - 1.0 mm<sup>2</sup> Rated wiring stranded wire AWG 30 - 16 Rated wiring solid wire Rated wiring stranded wire AWG 30 - 18 Solder pin dimension 2 x 1.0 mm ø 1.5 mm Recommended pc board hole dia. Solder pin length 3.5 mm Protection category according IP 00 to IEC 60529 Color metallike

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
360410	metallike	reature r	reature 2	
300410	Incumke			



P/N	Color	Feature 1	Feature 2	
360322	metallike			









#### 360381 | Single terminal block M3

- screw type terminal block, THR solderable, double solder pins
- direction of connection  $90^{\circ}$
- · color metal
- Tape & Reel packaging
- open construction, screw brought down by hand (transport safety)

#### **Technical data**

0.5 - 2.5 mm<sup>2</sup> AWG 30 - 12 / 16 A

Rated wiring solid wire	0.5 - 2.5 mm
Rated wiring stranded wire	0.5 - 2.5 mm
Rated wiring solid wire	AWG 30 - 12
Rated wiring stranded wire	AWG 30 - 12
Solder pin dimension	2 x 1.0 mm
Recommended pc board hole dia.	ø 1.5 mm
Solder pin length	2.25 mm
Protection category according	
to IEC 60529	IP 00
Color	metallike





#### 360291 | Single terminal block M3

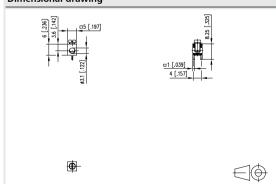
- screw type terminal block, solderable, double solder pins
- direction of connection 90°
- wire protector
- with molded housing, screw brought down by hand (transport safety)

#### **Technical data**

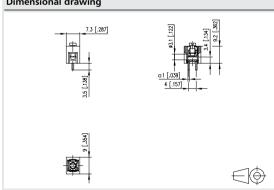
Overvoltage category Ш п Pollution degree 2 2 Rated test voltage 0.8 kV 4 kV 2.5 kV

Rated wiring solid wire 0.33 - 2 mm<sup>2</sup> Rated wiring stranded wire 0.33 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 14 Rated wiring stranded wire AWG 22 - 14 Solder pin dimension 2 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm 3.5 mm Solder pin length black Color

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
360381	metallike			



P/N	Color	Feature 1	Feature 2	
360291	black			









#### 360271 | Single terminal block M3

- screw type terminal block, solderable
- direction of connection 90°
- · wire protector
- · color black
- · with molded housing, single solder pin, screw brought down by hand (transport safety)

#### **Technical data**

Overvoltage category П Ш Pollution degree 2 2 Rated test voltage 0.8 kV 4 kV 2.5 kV

0.33 - 2 mm<sup>2</sup> Rated wiring solid wire Rated wiring stranded wire 0.33 - 1.5 mm<sup>2</sup> Rated wiring solid wire AWG 22 - 14 Rated wiring stranded wire AWG 22 - 14 Solder pin dimension 1.2 mm Recommended pc board hole dia. ø 1.5 mm 2.9 mm Solder pin length black Color





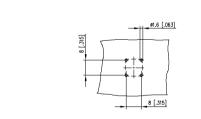
#### 360425 | Single terminal block M4

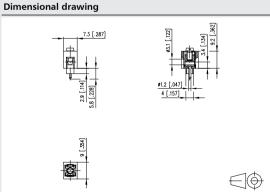
- screw type terminal block, THR solderable
- direction of connection 90°
- color metal

#### **Technical data**

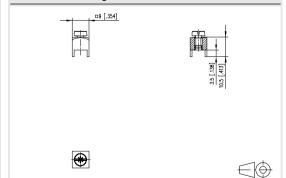
Rated current 50 A 1.0 x 1.0 mm Solder pin dimension ø 1.6 mm Recommended pc board hole dia. Solder pin length 3.5 mm Protection category according IP 00 to IEC 60529 metallike Color

#### **Drill pattern**





	Т			7
P/N	Color	Feature 1	Feature 2	
360271	black			



P/N	Color	Feature 1	Feature 2	
360425	metallike			



# **U** Contact

# IDC type terminal blocks

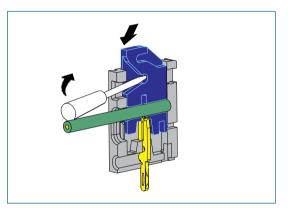
#### **Design specification**

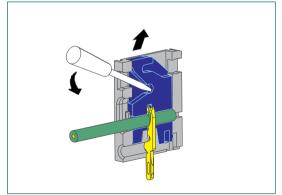
The product family of IDC type terminal blocks blocks consists of terminal blocks that are based on the principle of strip-free technology.

The product family of insulation displacement connectors consists of terminal blocks based on the principle of insulation displacement technology. By insulation displacement, we mean an electrical connection that is created by the cutting the insulation of the individual conductor inside the terminal block with a knife contact. It is suitable for solid and stranded copper wires and allows direct clamping without pre-treatment of the conductor. The insulation material has to be PVC or another material with properties that harmonize with the cut and clamp action. That means complete displacement of the insulation material by the inner knife flanks should be possible without damaging the conductor. In addition the insulation sleeve of stranded conductors has to be able to keep the single wires in place so that they are not displaced during the termination process.

We would be pleased to advise you!







# **U** Contact

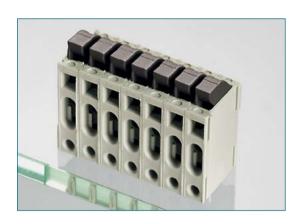
# IDC type terminal blocks

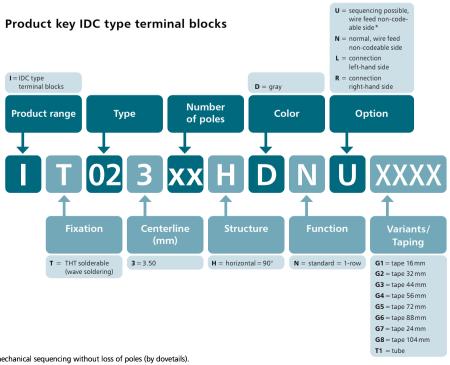
#### **Printing options**

We offer individual printing of your terminal blocks. Figures or symbols, anti-clockwise or clockwise, legible or bottom up depending on the technical feasibility. Ink-jet print, pad printing and hot stamping are available as methods. Design your individual terminal block with us.

#### Color options

You can order the terminal blocks in a variety of sizes and also often vary the colors within a terminal block, if required. This is for instance helpful in housing integration to achieve an optically attractive overall picture and to us this as a further coding option. We would be pleased to advise you on the possible combinations.





<sup>\*</sup> Sequencing possible means the mechanical sequencing without loss of poles (by dovetails).



# **Symbol Definition**

#### **Guiding icons**



Spring clamp terminal block



IDC terminal block



Screw type terminal block



Pin header



Female connector



Ethernet M12



solderable



pluggable



Centerline



Wire entry 90°



Diagonal wire entry



Wire entry 0°



Lift system



Wire protector



modular



Pin header for vertical mounting



Shrouded pin header for vertical mounting



Pin header with open ends for vertical mounting



Pin header with closed ends for vertical mounting



Pin header for horizontal mounting



Shrouded pin header for horizontal mounting



Pin header with open ends for horizontal mounting



Pin header with closed ends for horizontal mounting



designed for THR



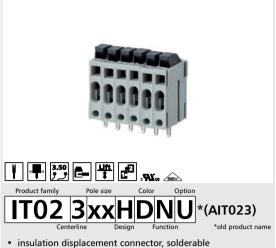
designed for SMT



Tape & Reel possible







- centerline 3.50 mm, direction of connection 90°
- · lift system, modular
- · color gray

#### **Technical data**

#### c **Ti**us V / A / AWG 150 / 2.5 / 24 - 22

0.34 mm<sup>2</sup> 130 V / 5 A / T60

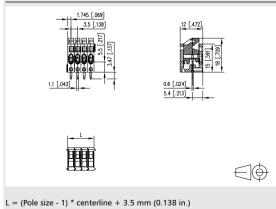
Overvoltage category Ш Ш П Pollution degree 3 2 2 160 V 400 V Rated voltage 400 V 2.5 kV 2.5 kV 2.5 kV Rated test voltage

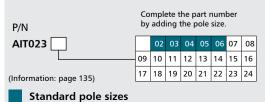
Insulating material class CTI 600 Rated wiring solid wire 0.2 - 0.34 mm<sup>2</sup> Rated wiring stranded wire 0.2 - 0.34 mm<sup>2</sup> Rated wiring solid wire AWG 24 - 22

AWG 24 - 22 Rated wiring stranded wire Clearance and creepage distances 2.3 mm 0.6 x 1.1 mm Solder pin dimension

Recommended pc board hole dia. ø 1.4 mm 3.5 mm Solder pin length Protection category according

IP 20 to IEC 60529 Color gray











#### Pin headers & female connectors

1	Overview
	Pin headers & female connectors
2	Pin headers

Female connectors 197



# Pin headers and female connectors



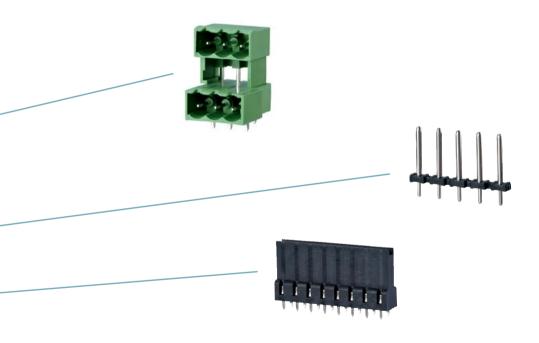


#### Pin headers and female connectors

For a combination with terminal blocks, METZ CONNECT offers also a large product portfolio of pin headers and female connectors. We offer pin headers and female connectors for standard soldering processes as well as reflow-capable versions as THR or SMD/SMT, as loose bulk goods or as Tape & Reel solutions.

We offer pin headers and female connectors with various centerlines and different numbers of poles for vertical and horizontal mounting solutions.

We offer individual printing of your pin headers and female connectors according to your demands and do also offer various base colors.



# **U** Contact

# Pin headers and female connectors

#### **Design specification**

#### **Contact pins**

Contact pins are made of a wrought copper alloy and have a surface protection. Silver plating is available as a standard procedure.

Electro tin-plating, gold flash plating or hard gold-plating are possible on request.

#### Note regarding the storage of pin headers/ female connectors with passivated silver pins:

- closed in poly-bags and not directly in the cardboard packaging
- no direct sunlight
- room temperature
- no exposure to aggressive ambient conditions

#### Reflow-compatible components





METZ CONNECT offers a wide range of pin headers/female connectors in reflow-compatible designs. The demand for components that can be soldered by THR (through hole reflow) or SMT (surface mount technology) is constantly growing thanks to ever increasing degrees of automation in the production processes. In addition, the use of pin headers/female connectors in combination with the pluggable terminals and spring clamp terminal blocks as counter pieces is already an intelligent solution for flexible connection tasks in the PC board environment anyway. Through the THR method, pin headers can be processed along with SMT components in the reflow soldering process. We also have a range of "Tape & Reel" pin headers and female connectors for automatic assembly. Please ask us about these, we would be pleased to show you our solutions.

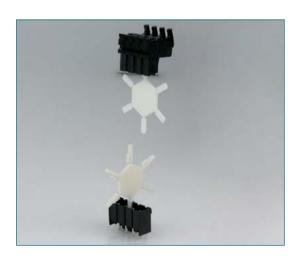
"Tape & Reel" is the name given to a taped form of packaging. The aim of this packaging variant is to automate production processes. The components are packed in a blister tape and welded in a protective foil. This tape is then wound round a reel. Taping corresponds to DIN EN 60286.

#### **METZ CONNECT standard:**

- Reel diameter: 15" (13", 7" on request)
- Tape width: according to standard, depending on the number of positions

#### Coding

Some of the pin headers/female connectors with open or closed ends can be coded by inserting coding pins into the respective slots. If coded correctly, the ridges of the respective coding pins slide past each other and terminal block and pin header/female connecter mate. This method of coding enables a plug connector to be distinctively assembled without loss of a pole.



# **U** Contact

# Pin headers and female connectors

#### **Printing options**

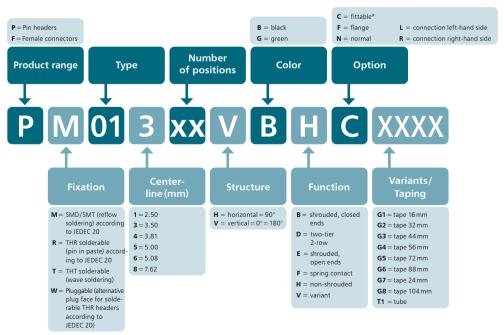
We offer individual printing of your headers/socket panels. Figures or symbols, anti-clockwise or clockwise, legible or bottom up depending on the technical feasibility. Ink-jet print, pad printing and hot stamping are available as methods. Design your individual header with us.

#### **Color options**

You can order the headers/socket panels in a variety of basic colors. This is for instance helpful in housing integration to achieve an optically attractive overall picture and to us this as a further coding option. We would be pleased to advise you on the possible colors.



#### Product key pin headers and female connectors



 $<sup>\</sup>ensuremath{^{\star}}$  Fittable stands for loose sequencing without loss of poles (without dovetails).



# **Symbol Definition**

#### **Guiding icons**



Spring clamp terminal block



IDC terminal block



Screw type terminal block



Pin header



Female connector



Ethernet M12



solderable



pluggable



Centerline



Wire entry 90°



Diagonal wire entry



Wire entry 0°



Lift system



Wire protector



modular



Pin header for vertical mounting



Shrouded pin header for vertical mounting



Pin header with open ends for vertical mounting



Pin header with closed ends for vertical mounting



Pin header for horizontal mounting



Shrouded pin header for horizontal mounting



Pin header with open ends for horizontal mounting



Pin header with closed ends for horizontal mounting



designed for THR



designed for SMT



Tape & Reel possible





for PT091xxHGBN Page
SP051xxVGNN (ASP051) 47

#### **Terminal blocks**

for PT091xxVGBN Page
SP051xxVGNN (ASP051) 47







- pin header, solderable
- centerline 2.50 mm, direction of connection 90°
- closed ends
- · color green

#### **Technical data**

c**PL'**us V / A 150 / 5

6 A / 80 V / 2.5 kV / 3 IEC 61984

Overvoltage category Ш П Ш Pollution degree 3 2 2 Rated voltage 80 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class Clearance and creepage distances 1.7 mm 0.8 x 0.8 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm

3.2 mm

Solder pin length Protection category according to IEC 60529

to IEC 60529 IP 00
Color green





PTO9 1 XX VGBN \*(Type 373)

Centerline Design Function \*old product name

- pin neader, solderable
- centerline 2.50 mm, direction of connection vertical 0°
- closed ends
- color green

#### **Technical data**

c **N**us V/A 150/5

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 80 V
 320 V
 320 V

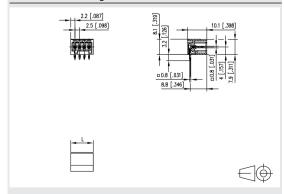
 Rated test voltage
 2.5 kV
 2.5 kV
 2.5 kV

Insulating material class CTI 600
Clearance and creepage distances 1.7 mm
Solder pin dimension 0.8 x 0.8 mm

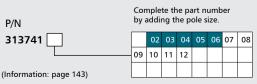
Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.2 mm Protection category according

to IEC 60529 IP 00
Color green

#### **Dimensional drawing**

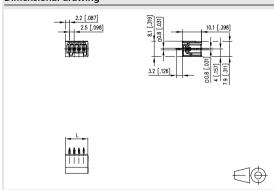


L = (Pole size - 1) \* centerline + 4.4 mm (0.173 in.)

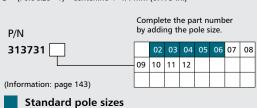


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 4.4 mm (0.173 in.)





720293



#### **Terminal blocks**

for PR013xxVBHC Page RP023xxHBNF (Type 165) 100

#### **Terminal blocks**

for PR043xxHBBN	Page
SP043xxVBNN (ASP043)	48
SP063xxVGNN (ASP063)	49
RP043xxHBLC (Type 614)	101
RP043xxHBLD (Type 613)	101

RP033xxVBLC (Type 339)	105
FT143xxVBFC (Type 089)	197

#### **Accessories** Page for PR043xxHBBN

296





- · pin header, THR solderable
- centerline 3.50 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black
- Tape & Reel packaging

#### **Technical data**

c <b>FL</b> us V / A	125 / 10			
Overvoltage catego	ry	Ш	Ш	II
Pollution degree		3	2	2
Rated voltage		160 V	320 V	320 V
Rated test voltage		2.5 kV	2.5 kV	2.5 kV
Insulating material	class	CTI 400		
Clearance and creep	age distances	2.5 mm		
Solder pin dimensio	n	1.0 mm		
Recommended pc b	oard hole dia.	ø 1.3 m	m	
Solder pin length		5.2 mm		
Protection category	according	ID 00		
to IEC 60529		IP 00		
Color		black		



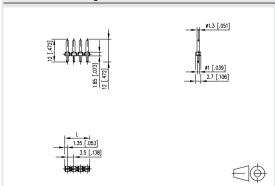
- pin header, THR solderable
- centerline 3.50 mm, direction of connection 90°
- closed ends
- color black
- Tape & Reel packaging
- codeable

#### **Technical data**

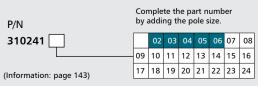
c <b>PU</b> us V / A	300	/ 10			
10 A / 130 V / 2.5 kV / 3	IEC	61984			
Overvoltage category		III	Ш	II	
Pollution degree		3	2	2	
Rated voltage		200 V	500 V	500 V	
Rated test voltage		2.5 kV	2.5 kV	2.5 kV	
Insulating material class		CTI 600			
Clearance and creepage distance	es	2.7 mm			
Solder pin dimension		0.8 x 0.8	3 mm		
Recommended pc board hole d	ia.	ø 1.3 m	m		
Solder pin length		3.4 mm			
Protection category according		ID 00			
to IEC 60529		IP 00			

black

#### **Dimensional drawing**

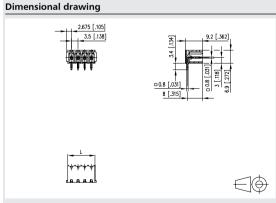


L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

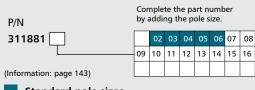


Standard pole sizes

Color



L = (Pole size - 1) \* centerline + 5.35 mm (0.211 in.)





\*old product name

# METZ

#### Terminal blocks

for PR043xxHBBF Page SP063xxVGNF (ASP083) 49 RP043xxHBLF (Type 634) 102

RP043xxHBLS (Type 633) 102

**Accessories** Page for PR043xxHBBF

720293 296

#### Terminal blocks

for PW063xxHBEC Page SW063xxVBNN 48

FW143xxVBFC 197





- pin header, THR solderable
- centerline 3.50 mm, direction of connection 90°
- closed ends
- · color black, mounting flange
- Tape & Reel packaging
- codeable

to IEC 60529

Color

#### **Technical data**

c**Sl**us V / A 300 / 10 10 A / 130 V / 2.5 kV / 3 IEC 61984 Overvoltage category Ш Pollution degree 3 2 2 500 V 500 V Rated voltage 200 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class **CTI 600** Clearance and creepage distances 2.7 mm 0.8 x 0.8 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.4 mm Protection category according IP 00

black



pin header, THR solderable

- centerline 3.50 mm, direction of connection 90°
- open ends, fittable without loss of poles
- color black
- Tape & Reel packaging
- · with alternative face, codeable

#### Technical data

c**Sl**us V / A 300 / 10 \_\_\_\_\_\* 10 A / 130 V / 2.5 kV / 3 IEC 61984

Overvoltage category Pollution degree 3 2 2 320 V Rated voltage 160 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

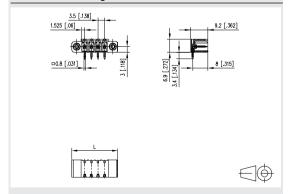
3.2 mm

Insulating material class **CTI 400** Clearance and creepage distances 2.48 mm 1.0 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm

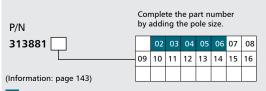
Solder pin length Protection category according

IP 10 to IEC 60529 Color black

#### **Dimensional drawing**

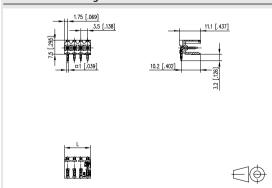


L = (Pole size - 1) \* centerline + 13.8 mm (0.543 in.)

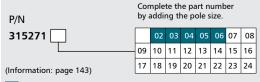


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)







for PW063xxHBBN Page SW063xxVBNN 48

**RW043xxHBLC (Type 514)** 103

**RW043xxHBLD (Type 513)** 103

FW143xxVBFC 197

#### Terminal blocks

for PW063xxHBBF Page RW043xxHBLF (Type 534) 104





\* Approval pending



- pin header, THR solderable
- centerline 3.50 mm, direction of connection 90°
- closed ends
- · color black
- Tape & Reel packaging
- · with alternative face, codeable

#### **Technical data**

c**W**us V / A 300 / 10 10 A / 130 V / 2.5 kV / 3 IEC 61984

Overvoltage category Ш Pollution degree 3 2 2 320 V Rated voltage 160 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class **CTI 400** 

1.0 x 1.0 mm

3.2 mm

Clearance and creepage distances 2.48 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length

Protection category according to IEC 60529

IP 10 Color black



- pin header, THR solderable
- centerline 3.50 mm, direction of connection 90°
- closed ends
- color black, mounting flange
- Tape & Reel packaging
- · with alternative face, codeable

#### Technical data

c**TU**us V / A 300 / 10

10 A / 130 V / 2.5 kV / 3 IEC 61984 Overvoltage category

Pollution degree 3 2 2 320 V Rated voltage 160 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

Insulating material class **CTI 400** Clearance and creepage distances 2.48 mm 1.0 x 1.0 mm Solder pin dimension

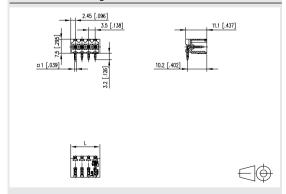
Recommended pc board hole dia. ø 1.4 mm Solder pin length

Protection category according

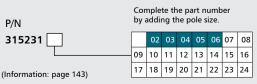
to IEC 60529 Color

3.2 mm IP 10 black

#### **Dimensional drawing**

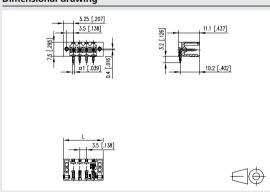


L = (Pole size - 1) \* centerline + 4.9 mm (0.193 in.)

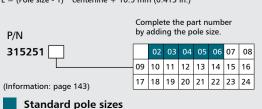


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 10.5 mm (0.413 in.)







for PT093xxHBBN	Page
SP043xxVBNN (ASP043)	48
SP063xxVGNN (ASP063)	49
RP043xxHBLC (Type 614)	101
RP043xxHBLD (Type 613)	101
RP033xxVBLC (Type 339)	105

# Accessories Page

197

296

FT143xxVBFC (Type 089)

for PT093xxHBBN
LED-light transmitter 295
for headers, pluggable

**Terminal blocks** 

720293

for PT093xxHBBF	Page
SP063xxVGNF (ASP083)	49
RP043xxHBLF (Type 634)	102
RP043xxHBLS (Type 633)	102

### Accessories Page

for PT093xxHBBF
LED-light transmitter 295
for headers, pluggable
720293 296





- · pin header, solderable
- centerline 3.50 mm, direction of connection 90°
- closed ends
- color black
- codeable

#### Technical data

c <b>AL</b> us V / A	300/	8		
9 A / 125 V / 2.5 kV / 3	IEC 61	984		
Overvoltage category	- 1	II	Ш	II
Pollution degree	3	3	2	2
Rated voltage	2	200 V	500 V	500 V
Rated test voltage	2	2.5 kV	2.5 kV	2.5 kV
Insulating material class	(	CTI 600		
Clearance and creepage distar	ices 2	2.7 mm		
Solder pin dimension	(	3.0 x 8.C	3 mm	
Recommended pc board hole	dia. 🤉	ฮ 1.4 mı	n	
Solder pin length	3	3.5 mm		
Protection category according		D 00		
to IEC 60529	ı	P 00		
Color	k	olack		







- pin header, solderable
- centerline 3.50 mm, direction of connection 90°
- closed ends
- color black, mounting flange
- codeable

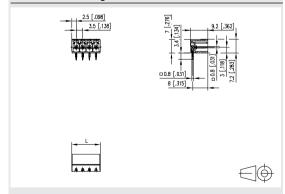
#### **Technical data**



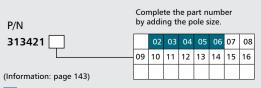
Overvoltage category Ш ш Pollution dearee 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Clearance and creepage distances 2.7 mm Solder pin dimension 0.8 x 0.8 mm Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.5 mm Protection category according

to IEC 60529 IP 00 Color black

#### **Dimensional drawing**

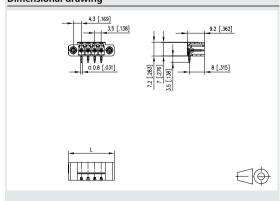


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

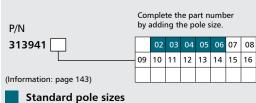


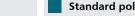
Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 13.8 mm (0.543 in.)









for PT113xxHBBN Page RP013xxVBWN (Type 169) 105

Accessories Page for PT113xxHBBN 720243 296 720243 297

#### **Terminal blocks**

for PR033xxVBHC Page RP023xxHBWC (Type 166) 100





- pin header, solderable
- centerline 3.50 mm, direction of connection 90°
- closed ends
- · color black
- codeable

#### Technical data

c **N**us V / A 300 / 10

Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Clearance and creepage distances 2.5 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.5 mm Protection category according IP 00 to IEC 60529

black



- pin header, THR solderable
- centerline 3.50 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- · Tape & Reel packaging

#### **Technical data**

SEV Reg 130002 6 A / 200 V / 2.5 kV / 3 IEC 61984

Overvoltage category III III

Pollution degree 3 2

 Pollution degree
 3
 2
 2

 Rated voltage
 200 V
 500 V
 500 V

 Rated test voltage
 2.5 kV
 2.5 kV
 2.5 kV

 Insulating material class
 CTI 600

 Clearance and creepage distances
 2.5 mm

Solder pin dimension 1.0 mm

Recommended pc board hole dia. Ø 1.3 mm

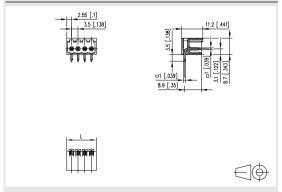
Solder pin length 3.6 mm

Protection category according

to IEC 60529 IP 00

#### **Dimensional drawing**

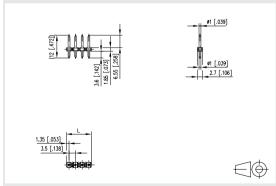
Color



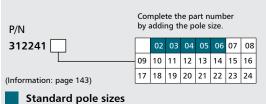
L = (Pole size - 1) \* centerline + 5.1 mm (0.201 in.)

Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 2.7 mm (0.106 in.)







\*old product name

Ш 2

500 V

200 V

2

500 V

2.5 kV



Page

#### **Terminal blocks**

for PR043xxVBBN

SP043xxVBNN (ASP043)	48
SP063xxVGNN (ASP063)	49
RP043xxHBLC (Type 614)	101
RP043xxHBLD (Type 613)	101
RP033xxVBLC (Type 339)	105
FT143xxVBFC (Type 089)	197

Acc	essories	Page

for PR043xxVBBN 720293 296

#### **Terminal blocks**

for PR043xxVBBF	Page
SP063xxVGNF (ASP083)	49
RP043xxHBLF (Type 634)	102
RP043xxHBLS (Type 633)	102

#### Accessories Page for PR043xxVBBF

296

Color

720293





(Type 189)

- · pin header, THR solderable
- centerline 3.50 mm, direction of connection vertical 0°
- · closed ends
- · color black
- Tape & Reel packaging
- codeable

#### **Technical data**

c <b>91</b> 'us V / A	300 / 10		
10 A / 130 V / 2.5 kV / 3	IEC 61984		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	200 V	500 V	500 V
Rated test voltage	2.5 kV	2.5 kV	2.5 k
Insulating material class	CTI 600	)	
Clearance and creepage distant	es 2.7 mn	า	
Solder pin dimension	0.8 x 0	.8 mm	
Recommended pc board hole d	ia. ø 1.3 n	nm	
Solder pin length	3.2 mn	า	
Protection category according to IEC 60529	IP 00		

black



- pin header, THR solderable
- centerline 3.50 mm, direction of connection vertical 0°
- closed ends
- · color black, mounting flange
- Tape & Reel packaging
- codeable

Rated voltage

#### **Technical data**

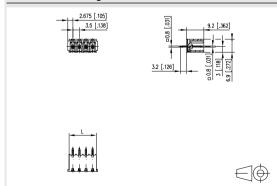
c <b>Al</b> us V / A	300 / 10
10 A / 130 V / 2.5 kV / 3	IEC 6198
Overvoltage category	III
Pollution degree	3

Rated test voltage 2.5 kV 2.5 kV Insulating material class **CTI 600** Clearance and creepage distances 2.7 mm 0.8 x 0.8 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.2 mm

Protection category according to IEC 60529

IP 00 Color black

#### **Dimensional drawing**

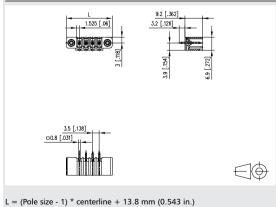


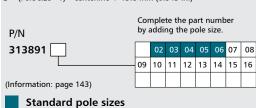
L = (Pole size - 1) \* centerline + 5.35 mm (0.211 in.)

P/N	Complete the part number by adding the pole size.							
311891		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 143)								

Standard pole sizes

#### **Dimensional drawing**









197

#### **Terminal blocks**

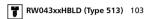
for PW063xxVBEC	Page
SW063xxVBNN	48

### **Terminal blocks**

FW143xxVBFC

for PW063xxVBBN	Page
SW063xxVBNN	48









\* Approval pending



- pin header, THR solderable
- centerline 3.50 mm, direction of connection vertical 0°
- open ends, fittable without loss of poles
- · color black
- Tape & Reel packaging
- with alternative face, codeable

Protection category according

to IEC 60529

Color

#### **Technical data**

c**W**us V / A 300 / 10 \_\_\_\_\_\* 10 A / 130 V / 2.5 kV / 3 IEC 61984 Overvoltage category П Pollution degree 3 2 2 Rated voltage 160 V 320 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class **CTI 400** Clearance and creepage distances 2.48 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.2 mm

IP 10

black

# \* Approval pending

- pin header, THR solderable
- centerline 3.50 mm, direction of connection vertical 0°
- closed ends
- color black
- · Tape & Reel packaging
- · with alternative face, codeable

#### Technical data

c**TU**us V / A 300 / 10 \_\_\_\_\_\* 10 A / 130 V / 2.5 kV / 3 IEC 61984

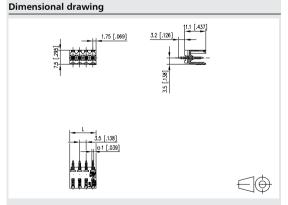
Overvoltage category Pollution degree 3 2 2 320 V Rated voltage 160 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

Insulating material class **CTI 400** Clearance and creepage distances 2.48 mm

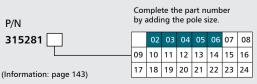
1.0 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.2 mm

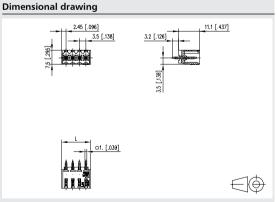
Protection category according to IEC 60529

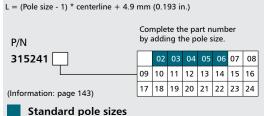
IP 10 Color black



L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)











for PW063xxVBBF Page **W043xxHBLF** (Type 534) 104

**TW043xxHBLS (Type 533)** 104

#### Terminal blocks

for PM013xxVBHC Page

**冒 RP023xxHBWC (Type 166)** 100



\* Approval pending





- pin header, THR solderable
- centerline 3.50 mm, direction of connection vertical 0°
- closed ends
- · color black, mounting flange
- Tape & Reel packaging
- · with alternative face, codeable

#### **Technical data**

c**W**us V / A 300 / 10 10 A / 130 V / 2.5 kV / 3 IEC 61984 Overvoltage category П Pollution degree 3 2 2 320 V Rated voltage 160 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class **CTI 400** Clearance and creepage distances 2.48 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.2 mm Protection category according

IP 10

black



\*old product name

- pin header, SMT solderable
- centerline 3.50 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- · Tape & Reel packaging

#### **Technical data**

c**TU**us V/A 300 / 15

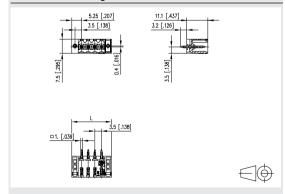
Overvoltage category Ш Ш Pollution degree 2 32.0 V 200.0 V 200.0 V Rated voltage 2.5 kV 2.5 kV 2.5 kV Rated test voltage CTI 400 Insulating material class Clearance and creepage distances 1.5 mm 2.0 mm

Solder pin dimension Protection category according

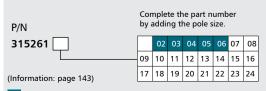
IP OO to IEC 60529 black Color

#### **Dimensional drawing**

to IEC 60529 Color

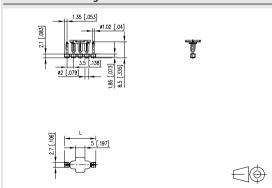


L = (Pole size - 1) \* centerline + 10.5 mm (0.413 in.)

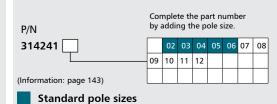


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 2.7 mm (0.106 in.)







Page

#### **Terminal blocks**

for PT093xxVBBN

SP043xxVBNN (ASP043)	48
SP063xxVGNN (ASP063)	49
RP043xxHBLC (Type 614)	101
RP043xxHBLD (Type 613)	101
RP033xxVBLC (Type 339)	105
FT143xxVBFC (Type 089)	197

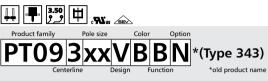
Accessories	Page
for PT093xxVBBN	
720293	296

#### **Terminal blocks**

for PT113xxVBBN	Page
RP013xxVBWN (Type 169)	105

Accessories	Page
for PT113xxVBBN	
720243	296
720243	297





- centerline 3.50 mm, direction of connection vertical 0°
- closed ends
- color black
- codeable

#### Technical data

c 711 us V / A	300	/ 8		
9 A / 125 V / 2.5 kV	//3 IEC 6	51984		
Overvoltage category		Ш	Ш	II
Pollution degree		3	2	2
Rated voltage		200 V	500 V	500 V
Rated test voltage		2.5 kV	2.5 kV	2.5 kV
Insulating material class		CTI 600		
Clearance and creepage di	istances	2.7 mm		
Solder pin dimension		0.8 x 0.8	8 mm	
Recommended pc board h	ole dia.	ø 1.4 m	m	
Solder pin length		3.5 mm		
Protection category accord	ding	ID 00		
to IEC 60529		IP 00		
Color		black		

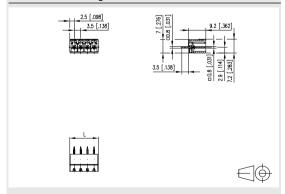


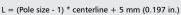
- pin header, solderable
- centerline 3.50 mm, direction of connection vertical 0°
- closed ends
- color black
- codeable

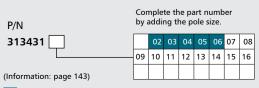
#### **Technical data**

c <b>91.</b> us V / A	300 / 10
6 A / 125 V / 2.5 kV / 3	IEC 61984
Overvoltage category	III III II
Pollution degree	3 2 2
Rated voltage	200 V 500 V 500 V
Rated test voltage	2.5 kV 2.5 kV 2.5 kV
Insulating material class	CTI 600
Clearance and creepage distar	ces 2.5 mm
Solder pin dimension	1.0 x 1.0 mm
Recommended pc board hole	dia. ø 1.5 mm
Solder pin length	3.5 mm
Protection category according	
to IEC 60529	IP 00
Color	black

#### **Dimensional drawing**

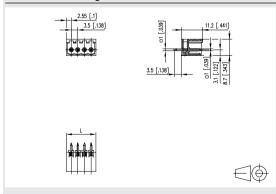




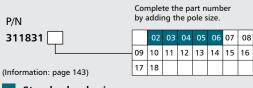


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5.1 mm (0.201 in.)







500 V

4.0 kV

# METZ

#### **Terminal blocks**

for PR044xxHBBN	Page	
SP044xxVBNN (ASP044)	50	
SP064xxVGNN (ASP064)	50	
RP034xxHBLN (Type 114)	106	
RP034xxHBLO (Type 113)	106	l.

Accessories	Page
for PR044xxHBBN	

**RP034xxVBLN (Type 369)** 107

LED-light transmitter 295 for headers, pluggable

720293 296

#### Terminal blocks

for PR044xxHBBF	Pag
SP064xxVGNF (ASP084)	51
RP034xxVBLF (Type 379)	107

#### **Accessories** Page

for PR044xxHBBF LED-light transmitter 295 for headers, pluggable

720293 296





- pin header, THR solderable
- centerline 3.81 mm, direction of connection 90°
- · closed ends
- · color black
- Tape & Reel packaging
- codeable

#### **Technical data**

c <b>91</b> 'us V / A	300/8		
10 A / 130 V / 2.5 kV / 3	IEC 61984		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	200 V	500 V	500 V
Rated test voltage	4.0 kV	4 kV	4.0 kV
Insulating material class	CTI 600		
Clearance and creepage distance	es 3.01 mr	n	
Solder pin dimension	0.8 x 0.	3 mm	
Recommended pc board hole d	ia. ø 1.3 m	m	
Solder pin length	3.5 mm		
Protection category according			
to IEC 60529	IP 00		
Color	black		





\*old product name

3.5 mm

- centerline 3.81 mm, direction of connection 90°
- closed ends
- color black, mounting flange
- Tape & Reel packaging
- codeable

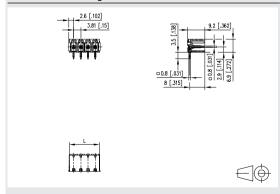
#### **Technical data**

c <b>N</b> us V / A 30	00/8		
10 A / 130 V / 2.5 kV / 3 IE	C 61984		
Overvoltage category	III	Ш	Ш
Pollution degree	3	2	2
Rated voltage	200 V	500 V	50
Rated test voltage	4.0 kV	4 kV	4.
Insulating material class	CTI 600		
Clearance and creepage distances	3.01 mi	m	
Solder pin dimension	0.8 x 0.	8 mm	
Recommended no hoard hole dia	ø 1 3 m	m	

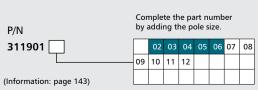
Solder pin length Protection category according to IEC 60529

IP 00 Color black

#### **Dimensional drawing**

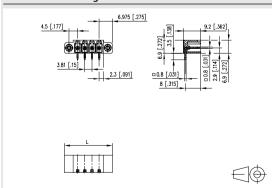


L = (Pole size - 1) \* centerline + 5.2 mm (0.205 in.)

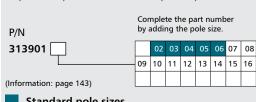


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 13.95 mm (0.549 in.)







for PT094xxHBBN  SP064xxVGNN (ASP064)	<b>Page</b> 50
RP034xxHBLN (Type 114)	106
RP034xxHBLO (Type 113)	106

# Accessories Page for PT094xxHBBN 720293 296

**PRP034xxVBLN (Type 369)** 107

#### Terminal blocks

for PT094xxHBBF	Page
SP064xxVGNF (ASP084)	51
RP034xxVBLF (Type 379)	107

## Accessories Page

for PT094xxHBBF 720293 296



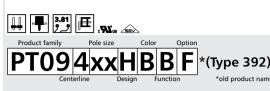


- pin header, solderable
- centerline 3.81 mm, direction of connection 90°
- closed ends
- color black
- codeable

#### Technical data

c**71**′us V / A 300/8 9 A / 160 V / 2.5 kV / 3 IEC 61984 Overvoltage category Ш п Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 4.0 kV 4 kV 4.0 kV CTI 600 Insulating material class Clearance and creepage distances 3.01 mm Solder pin dimension 0.8 x 0.8 mm Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.5 mm Protection category according IP 00 to IEC 60529 black Color



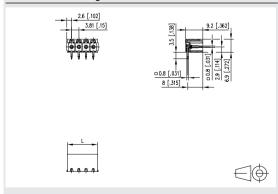


- pin header, solderable
- centerline 3.81 mm, direction of connection 90°
- closed ends
- · color black, mounting flange
- codeable

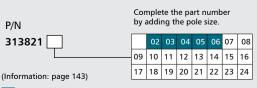
#### **Technical data**

c <b>%</b> us V / A	300	/ 8			
9 A / 160 V / 2.5 kV / 3	IEC 6	51984			
Overvoltage category		Ш	Ш	II	
Pollution degree		3	2	2	
Rated voltage		200 V	500 V	500 V	
Rated test voltage		4.0 kV	4 kV	4.0 kV	
Insulating material class		CTI 600			
Clearance and creepage distant	ices	3.01 mr	n		
Solder pin dimension		0.8 x 0.8	3 mm		
Recommended pc board hole	dia.	ø 1.3 m	m		
Solder pin length		3.5 mm			
Protection category according					
to IEC 60529		IP 00			
Color		black			

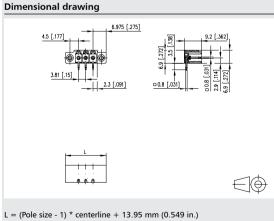
#### **Dimensional drawing**

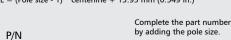


L = (Pole size - 1) \* centerline + 5.2 mm (0.205 in.)



Standard pole sizes





313921 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 (Information: page 143)





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#### Terminal blocks

SP044xxVBNN (ASP044)

for PR044xxVBBN

50
106
106

Accessories	Page
for PR044xxVBBN	
720293	296

**PRP034xxVBLN (Type 369)** 107

#### Terminal blocks

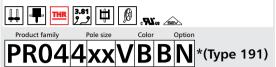
RP034xxVBLF (Type 379)

for PR044xxVBBF	Page
SP064xxVGNF (ASP084)	51

#### Accessories Page

for **PR044xxVBBF 720293** 296





- pin header, THR solderable
- centerline 3.81 mm, direction of connection vertical 0°
- · closed ends
- color black
- Tape & Reel packaging
- codeable

#### **Technical data**

Rated test voltage 4.0 kV 4 kV Insulating material class CTI 600 Clearance and creepage distances 3.01 mm Solder pin dimension 0.8 x 0.8 mm Recommended pc board hole dia. \$\frac{\text{9}}{25}\$ mm Protection category according

to IEC 60529 IP 00 Color black



- pin header, THR solderable
- centerline 3.81 mm, direction of connection vertical 0°
- closed ends
- color black, mounting flange
- Tape & Reel packaging
- codeable

Ш

2

500 V

4.0 kV

#### **Technical data**

c **Ni**us V/A 300/8 250 10 A/130 V/250 kV/3 IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 200 V
 500 V
 500 V

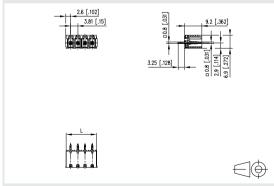
 Rated test voltage
 4.0 kV
 4 kV
 4 kV

Insulating material class CTI 600
Clearance and creepage distances 3.01 mm
Solder pin dimension 0.8 x 0.8 mm
Recommended pc board hole dia. Ø 1.3 mm

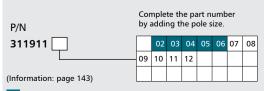
Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.25 mm Protection category according

to IEC 60529 IP 00
Color black

#### Dimensional drawing

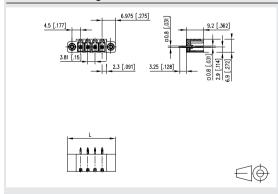


L = (Pole size - 1) \* centerline + 5.2 mm (0.205 in.)

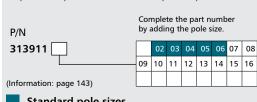


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 13.95 mm (0.549 in.)







for PT094xxVBBN		Page
SP064xxVGN	N (ASP064)	50

- **PP034xxHBLN (Type 114)** 106
- **RP034xxHBLO** (Type 113) 106 **PRP034xxVBLN (Type 369)** 107
- Accessories Page

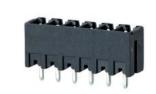
#### for PT094xxVBBN 720293 296

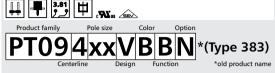
#### Terminal blocks

for PT094xxVBBF	Pag
SP064xxVGNF (ASP084)	51
RP034xxVBLF (Type 379)	107

#### Accessories Page

for PT094xxVBBF 720293 296





- pin header, solderable
- centerline 3.81 mm, direction of connection vertical 0°
- closed ends
- · color black
- codeable

#### Technical data

**C%**Us V / A 300/8 9 A / 160 V / 2.5 kV / 3 IEC 61984

Overvoltage category Ш Pollution degree 3 2 Rated voltage 200 V 500 V Rated test voltage 4.0 kV 4 kV CTI 600 Insulating material class Clearance and creepage distances 3.01 mm Solder pin dimension 0.8 x 0.8 mm Recommended pc board hole dia. ø 1.3 mm 3.25 mm Solder pin length Protection category according IP 00 to IEC 60529 black Color



- pin header, solderable
- centerline 3.81 mm, direction of connection vertical 0°
- closed ends
- color black, mounting flange
- codeable

П

2

500 V

4.0 kV

#### Technical data

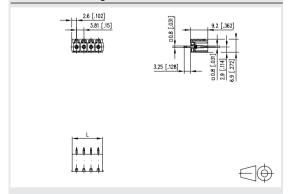
c**Pli**us V / A 300/8 9 A / 160 V / 2.5 kV / 3 IEC 61984

Overvoltage category Ш ш Pollution dearee 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 4.0 kV 4 kV 4.0 kV CTI 600 Insulating material class Clearance and creepage distances 3.01 mm Solder pin dimension 0.8 x 0.8 mm

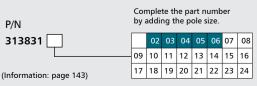
Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.25 mm Protection category according IP 00

to IEC 60529 black Color

#### **Dimensional drawing**

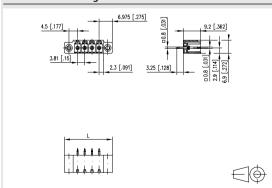


L = (Pole size - 1) \* centerline + 5.2 mm (0.205 in.)

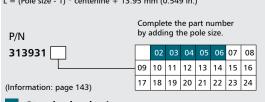


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 13.95 mm (0.549 in.)









for PR065xxHBEC	Page
SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP035xxHBLC (Type 313)	116
RP035xxHBLD (Type 314)	116

#### for PR065xxHBEC

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#### **Terminal blocks**

**Accessories** 

for PR065xxHBBN	Page
SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP035xxHBLC (Type 313)	116
RP035xxHBLD (Type 314)	116

#### **Accessories**

for PR065xxHBBN 700024 297



- pin header, THR solderable
- centerline 5.00 mm, direction of connection 90°
- · open ends
- color black
- Tape & Reel packaging
- codeable

Page

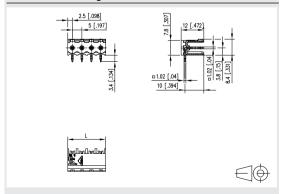
Page

#### **Technical data**

c <b>Pli</b> us V / A	300 / 15		
13.5 A / 320 V / 4 kV / 3	IEC 61984		
Overvoltage category	III	Ш	II
Pollution degree	3	2	2
Rated voltage	320 V	800 V	800
Rated test voltage	4 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Clearance and creepage distance	es 4 mm		
Solder pin dimension	1.0 x 1.0	0 mm	
Recommended pc board hole d	lia. ø 1.5 m	m	
Solder pin length	3.4 mm		
Protection category according			
to IEC 60529	IP 00		
Color	black		

c <b>711</b> us V / A	300 / 15		
13.5 A / 320 V / 4 kV / 3	IEC 6198	4	
Overvoltage category	Ш	III	П
Pollution degree	3	2	2
Rated voltage	320	V 800 V	800 V
Rated test voltage	4 kV	4.0 kV	4 kV
Insulating material class	CTI 6	00	
Clearance and creepage distance	es 4 mr	n	
Solder pin dimension	1.0 x	1.0 mm	
Recommended pc board hole d	ia. ø 1.5	mm	
Solder pin length	3.4 r	nm	
Protection category according			
to IEC 60529	IP 00	)	
Color	black	<	

#### **Dimensional drawing**



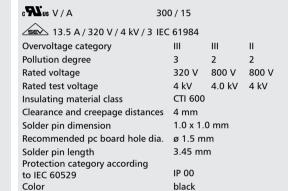
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

P/N Complete the part number by adding the pole size.								
314761		02	03	04	05	06	07	08
	09	10	11	12				
(Information: page 143)								

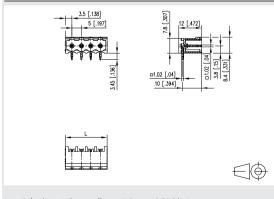


- pin header, THR solderable
- centerline 5.00 mm, direction of connection 90°
- · closed ends
- color black
- Tape & Reel packaging
- codeable

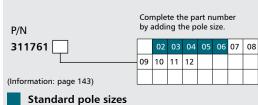
#### **Technical data**



#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 7.0 mm (0.276 in.)







for PR065xxHBBF	Page
SP065xxVBNF	55
SP065xxVBPF	55
PRO15vvVRLE (Type 351)	11/

# Accessories Page

for PR065xxHBBF	
700024	297

#### **Terminal blocks**

for PR075xxHBEL	Pag
SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54

SP995xxVBNC				
₩ RP015xxVBLC (Type 349)	113			

9	015/M1520 (1)pc 5 15)	
Ŧ	RP015xxSBLC (Type 350)	114

Ŧ	RP085xxVBLC (Type 348)	115

Ĭ	RP035xxHBLC (Type 313)	116
Ŧ	RP035xxHBLD (Type 314)	116

## Accessories Page

for **PR075xxHBEL 700024**297





- pin header, THR solderable
- centerline 5.00 mm, direction of connection 90°
- · closed ends
- · color black, mounting flange
- Tape & Reel packaging
- codeable

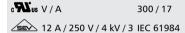
#### **Technical data**

	c <b>Pi</b> us V / A	200 /	1.			
	C TABUS V / A	300 / 1	15			
	13.5 A / 320 V / 4 kV / 3	IEC 61	984			
	Overvoltage category	Ш		Ш	II	
	Pollution degree	3		2	2	
	Rated voltage	32	0 V	800 V	800 V	
Rated test voltage		4	kV	4.0 kV	4 kV	
Insulating material class			CTI 600			
Clearance and creepage distances			4 mm			
	Solder pin dimension	1.0	1.0 x 1.0 mm			
Recommended pc board hole dia.			ø 1.5 mm			
Solder pin length			3.45 mm			
	Protection category according					
	to IEC 60529	IP	IP 00			



- pin header, THR solderable
- centerline 5.00 mm, direction of connection 90°
- open ends, fittable without loss of poles
- color black
- · Tape & Reel packaging
- codeable, connection left side, pluggable for module housing

#### **Technical data**



 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 250 V
 630 V
 630 V

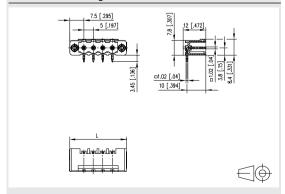
 Rated test voltage
 4.0 kV
 4.0 kV
 4 kV

 Insulating material class
 CTI 600

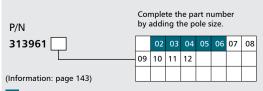
Insulating material class CTI 600
Clearance and creepage distances 3.2 mm
Solder pin dimension 1.0 x 1.0 mm
Recommended pc board hole dia. Ø 1.4 mm
Solder pin length 3.85 mm

Protection category according to IEC 60529 Color IP 00 black

#### **Dimensional drawing**

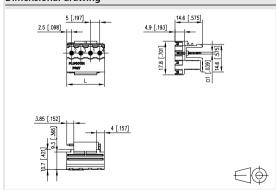


L = (Pole size - 1) \* centerline + 7.0 mm (0.276 in.)

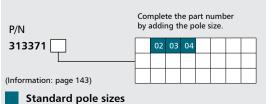


Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)





# CONNECT

#### **Terminal blocks**

for PR075xxHBER	Page
SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP085xxVBLC (Type 348)	115
RP035xxHBLC (Type 313)	116
RP035xxHBLD (Type 314)	116

# Accessories Page for PR075xxHBER 700024 297

#### **Terminal blocks**

for PT045xxHBEC	Page
RP015xxWBWC (Type 009)	112
RP015xxWBLC (Type 049)	113
RP035xxIBLN (Type 013)	115
FT085xxVBFC (Type 026)	198





- pin header, THR solderable
- centerline 5.00 mm, direction of connection 90°
- open ends, fittable without loss of poles
- color black
- Tape & Reel packaging
- codeable, connection right side, pluggable for module housing

#### **Technical data**

c <b>Pl</b> us V / A	00 /	17			
12 A / 250 V / 4 kV / 3 I	EC 61	984			
Overvoltage category		Ш	Ш	II	
Pollution degree		3	2	2	
Rated voltage		250 V	630 V	630 V	
Rated test voltage		4.0 kV	4.0 kV	4 kV	
Insulating material class		CTI 600			
Clearance and creepage distant	ces	3.2 mm			
Solder pin dimension		1.0 x 1.	0 mm		
Recommended pc board hole of	lia.	ø 1.4 m	m		
Solder pin length		3.85 mr	n		
Protection category according		ID 00			
to IEC 60529		IP 00			
Color		black			

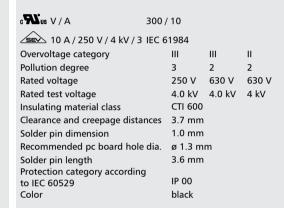




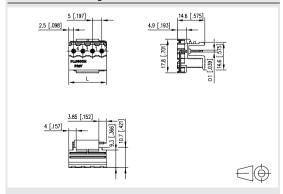


- pin header, solderable
- centerline 5.00 mm, direction of connection 90°
- · open ends, fittable without loss of poles
- color black

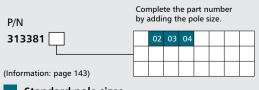
#### **Technical data**



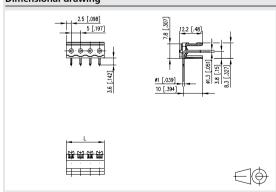
#### **Dimensional drawing**



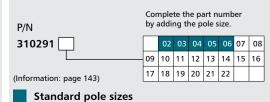
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)









for DTO//EvyLIDDN

	IOI FIU43XXIIDDIN	rage
SP995xxVBNC 56	SP995xxVBNC	56

- **RP015xxWBWC (Type 009)** 112
- **RP015xxWBLC (Type 049)** 113
- **RP085xxVBLC (Type 348)** 115
- RP035xxIBLN (Type 013) 115
- FT085xxVBFC (Type 026) 198

#### **Terminal blocks**

for PT045xxHBVC	Page
SP995xxVBNC	56

- **RP015xxWBWC (Type 009)** 112
- **RP015xxWBLC (Type 049)** 113
- **RP085xxVBLC (Type 348)** 115
- **RP035xxiBLN (Type 013)** 115
- FT085xxVBFC (Type 026) 198





- pin header, solderable
- centerline 5.00 mm, direction of connection 90°
- · closed ends
- color black

Solder pin length

#### **Technical data**

c**Ti**us V / A 300 / 15 10 A / 250 V / 4 kV / 3 IEC 61984 Overvoltage category П Ш Pollution degree 3 2 2 630 V Rated voltage 250 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV Insulating material class Clearance and creepage distances 3.7 mm 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm

3.6 mm

Protection category according to IEC 60529 IP 00 Color black





PT045 xxHBVC \*(Type 031)

Centerline Design Function \*old product name

- pin neader, solderable
- centerline 5.00 mm, direction of connection 90°
- · open ends, fittable without loss of poles
- color black

#### **Technical data**

V/A 300/10 10 A/250 V/4 kV/3 IEC 61984

Overvoltage category III III III
Pollution degree 3 2 2
Rated voltage 250 V 630 V 630 V
Rated test voltage 4.0 kV 4.0 kV 4 kV
Insulating material class CTI 600
Clearance and creepage distances 3.7 mm

Clearance and creepage distances

Solder pin dimension

Recommended pc board hole dia.

Solder pin length

Protection category according

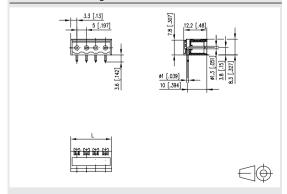
3.7 mm

1.0 mm

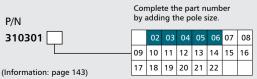
2.9 mm

to IEC 60529 IP 00 Color black

#### **Dimensional drawing**

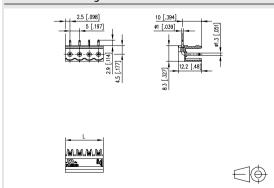


L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)

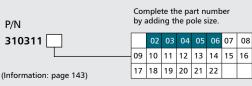


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



le sizes Standard pole sizes

# CONNECT

Page

#### **Terminal blocks**

for PT055xxHBHC

SP025xxHDNC (ASP025)	52
RP025xxIBWC (Type 007)	108
RP025xxIBWU (Type 077)	108
RP025xxHBWC (Type 107)	109

FT085xxVBFC (Type 026) 198

#### **Terminal blocks**

for PT105xxHGDN SP065xxVBNC	Page 54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP035xxHBLD (Type 314)	116





- · pin header, solderable
- centerline 5.00 mm, direction of connection 90°
- fittable without loss of poles
- · color black
- Tape & Reel packaging

#### Technical data

c <b>AL</b> us V / A	300 /	15	
SEV Reg 130002 6 A / 250 V / 4 kV	/3 IEC 6	1984	
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	250 V	630 V	630 V
Rated test voltage	4.0 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Clearance and creepage distances	3.7 mm		
Solder pin dimension	1.0 mm		
Recommended pc board hole dia.	ø 1.3 m	m	
Solder pin length	3.55 mr	n	
Protection category according to IEC 60529	IP 00		
Color	black		



- pin header, solderable
- centerline 5.00 mm, direction of connection 90°
- · closed ends
- · color green
- two rows, equal poles

Protection category according

to IEC 60529 Color

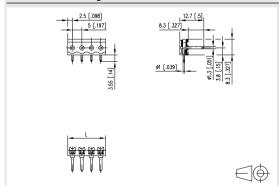
#### **Technical data**

c**%**us V / A 300 / 15 13.5 A / 320 V / 4 kV / 3 IEC 61984 Overvoltage category Ш ш Pollution degree 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Clearance and creepage distances 4 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.5 mm

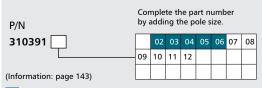
IP 00

green

**Dimensional drawing** 

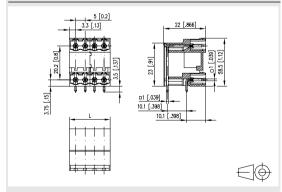


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

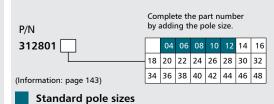


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)







Page

Page

#### **Terminal blocks**

for PT115xxHBEC

SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113

RP015xxSBLC (Type 350)	l 1
------------------------	-----

RP035xxHBLC (Type 313)	116
RP035xxHBLD (Type 314)	116

Accessories	Page
for PT115xxHBEC	
700024	297

#### **Terminal blocks**

for PT115xxHBBN

SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP035xxHBLC (Type 313)	116

Accessories	Page
for PT115xxHBBN	
700024	297

**RP035xxHBLD (Type 314)** 116

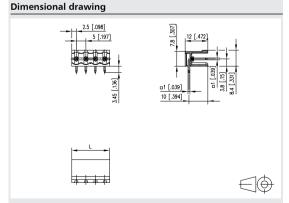




- pin header, solderable
- centerline 5.00 mm, direction of connection 90°
- open ends, fittable without loss of poles
- color black
- codeable

#### Technical data

c <b>Pl</b> us V / A	300 / 15		
13.5 A / 320 V / 4 kV / 3	IEC 61984		
Overvoltage category	Ш	Ш	II
Pollution degree	3	2	2
Rated voltage	320 V	800 V	800 V
Rated test voltage	4 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Clearance and creepage distance	es 4 mm		
Solder pin dimension	1.0 x 1.0	mm	
Recommended pc board hole d	ia. ø 1.5 mn	n	
Solder pin length	3.45 mm		
Protection category according			
to IEC 60529	IP 00		
Color	black		



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

P/N	Complete the part number by adding the pole size.							
313291		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 143)	17	18	19	20	21	22	23	24



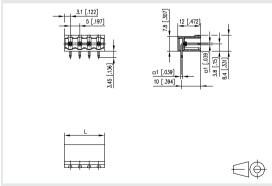
- pin header, solderable
- centerline 5.00 mm, direction of connection 90°
- · closed ends
- color black
- codeable

#### **Technical data**

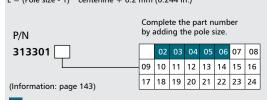
c <b>Ni</b> us V / A	300 / 15		
13.5 A / 320 V / 4 kV / 3 I	EC 61984		
Overvoltage category	Ш	Ш	II
Pollution degree	3	2	2
Rated voltage	320 V	800 V	800 V
Rated test voltage	4 kV	4.0 kV	4 kV
Insulating material class	CTI 600	)	
Clearance and creepage distance	s 4 mm		
Solder pin dimension	1.0 x 1.	0 mm	
Recommended pc board hole dia	a. ø 1.5 m	nm	

3.45 mm Solder pin length Protection category according IP 00 to IEC 60529 Color black

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 6.2 mm (0.244 in.)







for PT115xxHBBF	Page
SP065xxVBNF	55
SP065xxVBPF	55
RP015xxVBLF (Type 351)	114

#### **Accessories** Page

for PT115xxHBBF 700024 297

#### Terminal blocks

for PT165xxHGDN	Page
SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54

**PRO15xxVBLC (Type 349)** 113

SP995xxVBNC

- **T** RP015xxSBLC (Type 350) 114
- **PRO35xxHBLD (Type 314)** 116





- pin header, solderable
- centerline 5.00 mm, direction of connection 90°
- · closed ends
- · color black, mounting flange
- codeable

Color

#### Technical data

c <b>AL</b> us V / A	300 / 15		
13.5 A / 320 V / 4 kV / 3	IEC 61984		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	320 V	800 V	800 V
Rated test voltage	4 kV	4.0 kV	4 kV
Insulating material class	CTI 60	0	
Clearance and creepage distance	es 4 mm		
Solder pin dimension	1.0 x 1	1.0 mm	
Recommended pc board hole di	a. ø 1.5	mm	
Solder pin length	3.45 n	nm	
Protection category according	ID 00		
to IEC 60529	IP 00		

black





\*old product name

- pin header, solderable
- centerline 5.00 mm, direction of connection 90°
- · closed ends
- color green
- staggered pins, double stacked

#### **Technical data**

c**PL**us V / A 300 / 15

13.5 A / 320 V / 4 kV / 3 IEC 61984

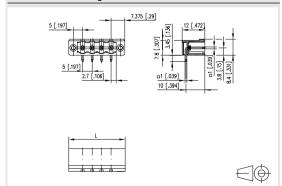
Overvoltage category Ш Ш ш Pollution degree 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV

CTI 600 Insulating material class Clearance and creepage distances 4 mm Solder pin dimension 1.0 x 1.0 mm ø 1.5 mm

Recommended pc board hole dia. Solder pin length 3.5 mm Protection category according

IP 00 to IEC 60529 Color green

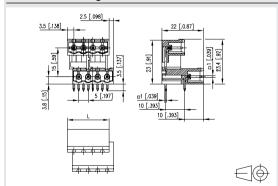
#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.75 mm (0.581 in.)

P/N	Complete the part number by adding the pole size.							
313361		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 143)	17	18	19	20	21	22	23	24

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 7 mm (0.276 in.)





Pin headers & female connectors



Page

#### **Terminal blocks**

for PR015xxVBHC

SP025xxHDNC (ASP025)	52
RP025xxIBWC (Type 007)	108

**RP025xxIBWU (Type 077)** 108

**RP025xxHBWC (Type 107)** 109

FT085xxVBFC (Type 026) 198

#### **Terminal blocks**

for PR015xxVBVC	Page
RP025xxIBWC (Type 007)	108
RP025xxIBWU (Type 077)	108
RP025xxHBWC (Type 107)	109

FT085xxVBFC (Type 026) 198

RP025xxIBLC (Type 137)





- pin header, THR solderable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- Tape & Reel packaging

#### **Technical data**

c <b>AL</b> us V / A	300 / 15						
SEV Reg 130002 10 A / 250 V / 4 kV / 3 IEC 61984							
Overvoltage category	Ш	III	II				
Pollution degree	3	2	2				
Rated voltage	250 V	500 V	500 V				
Rated test voltage	4.0 kV	4 kV	4.0 kV				
Insulating material class	CTI 400						
Clearance and creepage distances	3.7 mm						
Solder pin dimension	1.0 mm						
Recommended pc board hole dia.	ø 1.3 m	m					
Solder pin length	3.4 mm						
Protection category according to IEC 60529	IP 00						
Color	black						

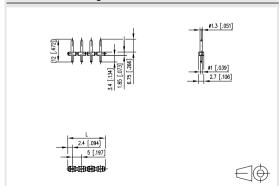


- pin header, THR solderable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black
- Tape & Reel packaging

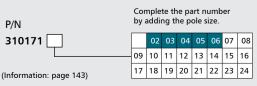
#### **Technical data**

c <b>PU</b> 'us V / A	300 / 15			
SEV Reg 130002 10 A / 250 V / 4 k	V/3 IEC	61984		
Overvoltage category	Ш	Ш	II	
Pollution degree	3	2	2	
Rated voltage	250 V	500 V	500 V	
Rated test voltage	4.0 kV	4 kV	4.0 kV	
Insulating material class	CTI 400			
Clearance and creepage distances	3.7 mm			
Solder pin dimension	1.0 mm			
Recommended pc board hole dia.	ø 1.3 m	m		
Solder pin length	3.4 mm			
Protection category according				
to IEC 60529	IP 00			
Color	black			

#### **Dimensional drawing**

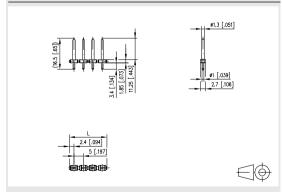


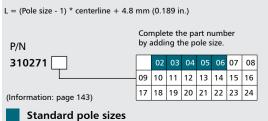
L = (Pole size - 1) \* centerline + 4.8 mm (0.189 in.)



Standard pole sizes

#### Dimensional drawing









for PM025xxVBHC Page RP095xxRBWC (Type 157 111 with snap-in technique)

RP095xxBBWC 111 (Type 157 without ridge)

RP095xxHBWC 112 (Type 157 with ridge)





- · spring clamp terminal block, SMT solderable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black
- Tape & Reel packaging

#### Technical data

**%** V/A 300 / 10 Overvoltage category Ш Ш П Pollution degree 3 2 2 Rated voltage 160.0 V 320.0 V 320.0 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class CTI 400 Clearance and creepage distances 2.5 mm 2.5 mm Solder pin dimension Protection category according IP OO to IEC 60529 black Color



- pin header, SMT solderable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- Tape & Reel packaging

#### **Technical data**

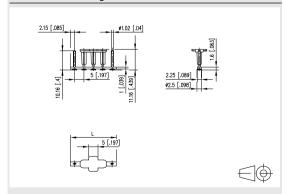
c**TU**us V/A 300 / 10

Overvoltage category Ш Ш Ш Pollution degree 3 2 Rated voltage 320 V 320 V 160 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

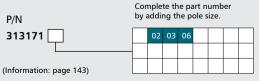
Insulating material class CTI 400 Clearance and creepage distances 2.5 mm Solder pin dimension 2.5 mm

Protection category according IP OO to IEC 60529 black Color

#### **Dimensional drawing**

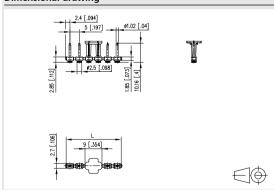


L = (Pole size - 1) \* centerline + 4.3 mm (0.169 in.)

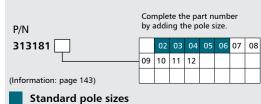


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 4.8 mm (0.189 in.)







for PR035xxVBHC	Page
SP145xxHBNC (ASP145)	52

- SP155xxHBNC (ASP155)
- RP095xxRBWC (Type 157 with snap-in technique)
- RP095xxBBWC 111 (Type 157 without ridge)
- RP095xxHBWC 112 (Type 157 with ridge)

#### **Terminal blocks**

for PR055xxVBHC Page RP025xxHBLC (Type 207) 110



- pin header, THR solderable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black
- · Tape & Reel packaging

#### Technical data

c**91**0s V / A 300 / 10 SEV Reg 130002 13.5 A / 250 V / 4 kV / 3 IEC 61984 Overvoltage category Ш Ш Pollution degree 3 2 Rated voltage 250 V 500 V 500 V Rated test voltage 4.0 kV 4 kV 4.0 kV CTI 400 Insulating material class Clearance and creepage distances 4 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 4.35 mm Protection category according

IP 00

black

SEV Reg 130002

- pin header, THR solderable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- Tape & Reel packaging

Protection category according

to IEC 60529

Color

#### Technical data

c**71**0s V / A 300 / 15

SEV Reg 130002 13.5 A / 320 V / 4 kV / 3 IEC 61984 Overvoltage category Ш Ш Pollution dearee 2 3 2 Rated voltage 250 V 500 V 500 V Rated test voltage 4.0 kV 4 kV 4.0 kV CTI 400 Insulating material class Clearance and creepage distances 4 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 4 mm

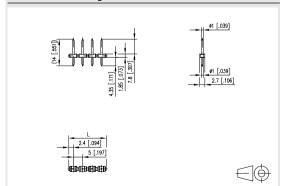
IP OO

black

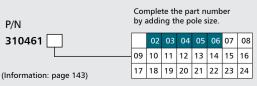
#### **Dimensional drawing**

to IEC 60529

Color

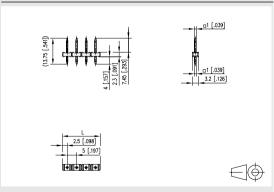


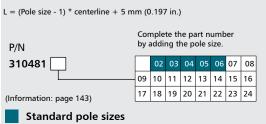
L = (Pole size - 1) \* centerline + 4.8 mm (0.189 in.)



Standard pole sizes

#### **Dimensional drawing**











for PR065xxVBEC	Page
SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP035xxHBLC (Type 313)	116
RP035xxHBLD (Type 314)	116

#### for PR065xxVBEC

700024 297

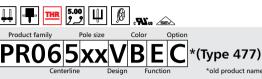
#### **Terminal blocks**

**Accessories** 

for PR065xxVBBN	Page
SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP035xxHBLC (Type 313)	116
RP035xxHBLD (Type 314)	116

#### **Accessories**

for PR065xxVBBN 700024 297



- · pin header, THR solderable
- centerline 5.00 mm, direction of connection vertical 0°
- · open ends
- · color black
- Tape & Reel packaging
- codeable

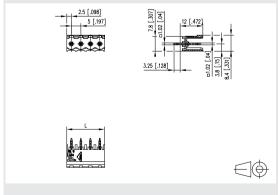
Page

Page

#### **Technical data**

c <b>Ali</b> us V / A	300 / 15		
13.5 A / 320 V / 4 kV / 3	IEC 61984		
Overvoltage category	III	Ш	Ш
Pollution degree	3	2	2
Rated voltage	320 V	800 V	800
Rated test voltage	4 kV	4.0 kV	4 kV
Insulating material class	CTI 600	)	
Clearance and creepage distance	es 4 mm		
Solder pin dimension	1.0 x 1.	0 mm	
Recommended pc board hole d	ia. ø 1.5 m	ım	
Solder pin length	3.25 m	m	
Protection category according			
to IEC 60529	IP 00		
Color	black		

#### **Dimensional drawing**



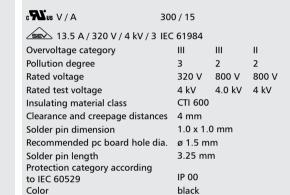
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

P/N	Complete the part number by adding the pole size.							
314771		02	03	04	05	06	07	08
	09	10	11	12				
(Information: page 143)								

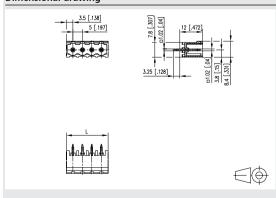


- pin header, THR solderable
- centerline 5.00 mm, direction of connection vertical 0°
- closed ends
- color black
- Tape & Reel packaging
- codeable

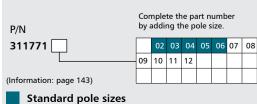
#### **Technical data**



#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 7.0 mm (0.276 in.)







for PR065xxVBBF	Page
SP065xxVBNF	55
SP065xxVBPF	55
RP015xxVBLF (Type 351)	114

#### **Accessories** Page

for PR065xxVBBF 700024 297

#### **Terminal blocks**

for PM035xxVBHC	Pag
SP025xxHDNC (ASP025)	52
RP025xxIBWC (Type 007)	108

**RP025xxHBWC (Type 107)** 109

**PRP025xxIBWU (Type 077)** 108



(Type 397)

- pin header, THR solderable
- centerline 5.00 mm, direction of connection vertical 0°
- · closed ends
- · color black, mounting flange
- Tape & Reel packaging
- codeable

Color

#### **Technical data**

c <b>Mu</b> s V / A	00 / 15			
13.5 A / 320 V / 4 kV / 3 II	EC 61984			
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Rated voltage	320 V	800 V	800 V	
Rated test voltage	4 kV	4.0 kV	4 kV	
Insulating material class	CTI 600			
Clearance and creepage distance	s 4 mm			
Solder pin dimension	1.0 x 1.	0 mm		
Recommended pc board hole dia	. ø 1.5 m	ım		
Solder pin length	3.25 m	m		
Protection category according	ID 00			
to IEC 60520	IP 00			

black



- pin header, SMT solderable
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black
- Tape & Reel packaging

#### **Technical data**

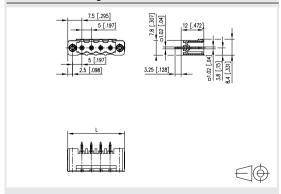
c**91**0s V / A 300 / 15 Overvoltage category

Ш Ш Pollution degree Rated voltage 320 V 160 V 320 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV Insulating material class CTI 400

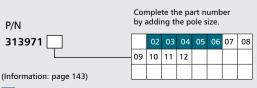
Clearance and creepage distances 2.5 mm Solder pin dimension 2.5 mm Protection category according to IEC 60529

IP 00 black Color

#### **Dimensional drawing**

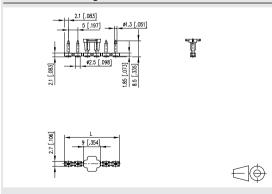


L = (Pole size - 1) \* centerline + 7.0 mm (0.276 in.)

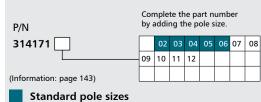


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 4.8 mm (0.189 in.)





METZ

for PT045xxVBEC Page
| RP015xxWBWC (Type 009) 112
| RP015xxWBLC (Type 049) 113
| RP035xxIBLN (Type 013) 115

FT085xxVBFC (Type 026) 198

#### Terminal blocks

**Terminal blocks** 

for PT045xxVBBN	Page
SP995xxVBNC	56
RP015xxWBWC (Type 009)	112
RP015xxWBLC (Type 049)	113
RP085xxVBLC (Type 348)	115

**RP035xxIBLN (Type 013)** 115

FT085xxVBFC (Type 026) 198







- pin header, solderable
- centerline 5.00 mm, direction of connection vertical 0°
- open ends, fittable without loss of poles
- color black

#### Technical data

c <b>AL</b> us V / A 300	/ 15		
10 A / 250 V / 4 kV / 3 IEC	61984		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	250 V	630 V	630 V
Rated test voltage	4.0 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Clearance and creepage distances	3.7 mm	1	
Solder pin dimension	1.0 mm	1	
Recommended pc board hole dia.	ø 1.3 m	ım	
Solder pin length	5.2 mm	1	
Protection category according to IEC 60529	IP 00		
Color	black		







- pin header, solderable
- $\bullet$  centerline 5.00 mm, direction of connection vertical  $0^{\circ}$
- · closed ends
- color black

to IEC 60529

Color

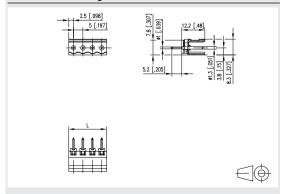
#### **Technical data**

c**Ri**us V / A 300 / 15 10 A / 250 V / 4 kV / 3 IEC 61984 Overvoltage category Ш Pollution degree 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV Insulating material class Clearance and creepage distances 3.7 mm 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1 3 mm Solder pin length 5.2 mm Protection category according

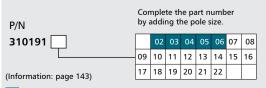
IP 00

black

#### **Dimensional drawing**

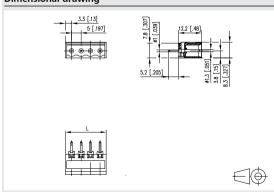


L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)

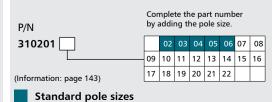


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)







for PT065xxVBEN Page SP025xxHDNC (ASP025)

RP025xxIBWC (Type 007)

**RP025xxIBWU (Type 077)** 108

**PRP025xxHBWC (Type 107)** 109

#### Terminal blocks

for PT065xxVBVN Page RP025xxIBWC (Type 007) 108

**PRP025xxIBWU (Type 077)** 108

**RP025xxHBWC (Type 107)** 109







- · pin header, solderable
- centerline 5.00 mm, direction of connection vertical 0°
- · open ends, guiding rips
- · color black

#### **Technical data**

c**Sl**us V / A 300 / 15 10 A / 250 V / 4 kV / 3 IEC 61984

Overvoltage category Ш П Ш Pollution degree 3 2 2 630 V Rated voltage 250 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV Insulating material class Clearance and creepage distances 3.7 mm

Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm 3.35 mm Solder pin length Protection category according

IP 00 to IEC 60529 black Color



- pin header, solderable
- $\bullet$  centerline 5.00 mm, direction of connection vertical  $0^{\circ}$
- · open ends, guiding rips
- color black

#### **Technical data**

c**PL**us V/A 300 / 15 10 A / 250 V / 4 kV / 3 IEC 61984

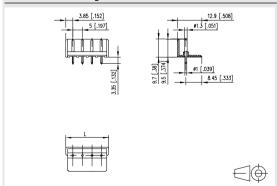
Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 250 V 630 V 630 V Rated test voltage 4.0 kV 4.0 kV 4 kV

**CTI 600** Insulating material class Clearance and creepage distances 3.7 mm Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm

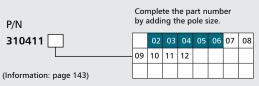
Solder pin length 3.35 mm Protection category according

IP 00 to IEC 60529 black Color

#### **Dimensional drawing**

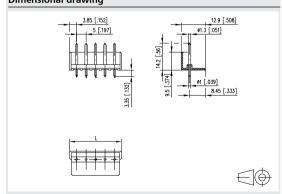


L = (Pole size - 1) \* centerline + 7.7 mm (0.303 in.)

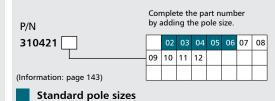


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 7.7 mm (0.303 in.)







П 2 800 V

4 kV



Page

114

Page

#### **Terminal blocks**

for PT105xxVGDN

SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113

#### **Terminal blocks**

for PT115xxVBEC

RP015xxSBLC (Type 350)

**PRO35xxHBLD (Type 314)** 116

SP045xxVBNC (ASP045)	53
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP035xxHBLC (Type 313)	116
RP035xxHBLD (Type 314)	116

#### **Accessories** Page for PT115xxVBEC

700024 297







- pin header, solderable
- centerline 5.00 mm, direction of connection vertical 0°
- · closed ends
- color green
- · two rows, aligned

#### Technical data

c <b>Pli</b> us V / A	300 /	/ 15			
13.5 A / 320 V / 4 kV / 3	IEC 6	1984			
Overvoltage category	- 1	II	III	II	
Pollution degree	3	3	2	2	
Rated voltage	3	320 V	800 V	800 V	
Rated test voltage	4	1 kV	4.0 kV	4 kV	
Insulating material class	(	CTI 600			
Clearance and creepage distance	es 4	1 mm			
Solder pin dimension	1	1.0 x 1.0 mm			
Recommended pc board hole d	ia. 🛭	ø 1.5 mm			
Solder pin length	3	3.9 mm			
Protection category according to IEC 60529	ı	P 00			
Color	(	reen			







- pin header, solderable
- centerline 5.00 mm, direction of connection vertical 0°
- open ends, fittable without loss of poles
- color black
- codeable

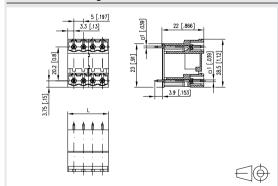
#### **Technical data**

c <b>711</b> us V / A	300 / 15	
13.5 A / 320 V / 4 kV / 3	IEC 61984	
Overvoltage category	III	Ш
Pollution degree	3	2
Rated voltage	320 V	800 V
Rated test voltage	4 kV	4.0 kV

CTI 600 Insulating material class Clearance and creepage distances 4 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.25 mm

Protection category according IP 00 to IEC 60529 Color black

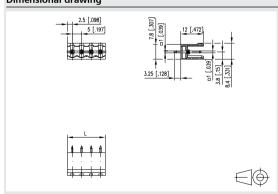
#### **Dimensional drawing**



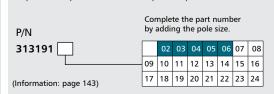
L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)

P/N	Complete the part number by adding the pole size.							
312781		04	06	08	10	12	14	16
	18	20	22	24	26	28	30	32
(Information: page 143)	34	36	38	40	42	44	46	48

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)





700024



#### **Terminal blocks**

for PT115xxVBBN	Page
SP045xxVBNC (ASP045)	53
<u></u>	

SP065xxVBNC	54
SP065xxVBPC	54

RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114

RP035xxHBLC (Type 313)	116
------------------------	-----

Ţ	RP035xxHBLD (Type 314)	116
-		

Accessories	Page
for PT115xxVBBN	
700024	297

#### **Terminal blocks**

for PT115xxVBBF	Pag
SP065xxVBNF	55
SP065xxVBPF	55
RP015xxVBLF (Type 351)	114

#### **Accessories** Page for PT115xxVBBF

MEMPER	



- centerline 5.00 mm, direction of connection vertical 0°
- · closed ends
- color black
- codeable

to IEC 60529

Color

297

#### Technical data

c Thus V / A	300 / 15		
13.5 A / 320 V / 4 kV / 3 I	EC 61984		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	320 V	800 V	800 V
Rated test voltage	4 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Clearance and creepage distance	s 4 mm		
Solder pin dimension	1.0 x 1.	0 mm	
Recommended pc board hole dia	a. ø 1.5 m	m	
Solder pin length	3.25 mi	n	
Protection category according			

IP 00

black



Product fam	illy		Pole Size		Color		Option	
PT1	1	5	XX	V	В	В	F	*(Type 335)
	Cent	erline		Design	F	unctio	n	*old product nam

- pin header, solderable
- centerline 5.00 mm, direction of connection vertical 0°
- closed ends
- color black, mounting flange
- codeable

#### **Technical data**

C 774 US	V/A			300	/ 1	15	
		 . , ,	 				

13.5 A / 320 V / 4 kV / 3 IEC 61984 Overvoltage category Ш Ш ш Pollution degree 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Clearance and creepage distances 4 mm Solder pin dimension 1.0 x 1.0 mm

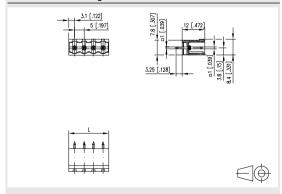
Solder pin length 3.25 mm Protection category according to IEC 60529 Color black

Recommended pc board hole dia.

IP 00

ø 1.5 mm

#### **Dimensional drawing**

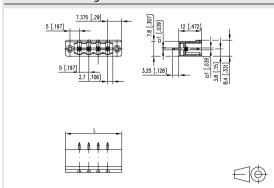


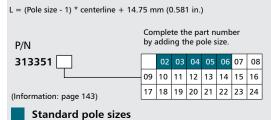
L = (Pole size - 1) \* centerline + 6.2 mm (0.244 in.)

P/N	Complete the part number by adding the pole size.							
313201		02	03	04	05	06	07	08
	09	10	11	12	13	14	15	16
(Information: page 143)	17	18	19	20	21	22	23	24

Standard pole sizes

#### **Dimensional drawing**







# METZ

#### **Terminal blocks**

for PT165xxVGDN	Page
SP045xxVBNC (ASP045)	53
SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP035xxHBLD (Type 314)	116

#### **Terminal blocks**

for PT175xxVGDN SP045xxVBNC (ASP045)	Page
SP065xxVBNC	54
SP065xxVBPC	54
SP995xxVBNC	56
RP015xxVBLC (Type 349)	113
RP015xxSBLC (Type 350)	114
RP035xxHBLD (Type 314)	116





- pin header, solderable
- centerline 5.00 mm, direction of connection vertical 0°
- closed ends
- color green
- staggered pins, double stacked

#### **Technical data**

c <b>911</b> 'us V / A	300 / 15	
13.5 A / 320 V / 4 kV / 3	IEC 61984	
Overvoltage category	III III	II
Pollution degree	3 2	2
Rated voltage	320 V 800 V	800 V
Rated test voltage	4 kV 4.0 kV	4 kV
Insulating material class	CTI 600	
Clearance and creepage distance	es 4 mm	
Solder pin dimension	1.0 x 1.0 mm	
Recommended pc board hole d	ia. ø 1.5 mm	
Solder pin length	3.9 mm	
Protection category according	10.00	
to IEC 60529	IP 00	
Color	green	



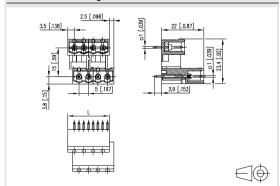


- pin header, solderable
- centerline 5.00 mm, direction of connection vertical 0°
- closed ends
- color green
- staggered pins, double stacked

#### **Technical data**

c <b>%1</b> us V / A	300	) / 15		
Overvoltage category		Ш	III	II
Pollution degree		3	2	2
Rated voltage		320 V	800 V	800 V
Rated test voltage		4 kV	4.0 kV	4 kV
Insulating material class		CTI 600		
Clearance and creepage distance	es	4 mm		
Solder pin dimension		1.0 x 1.	0 mm	
Recommended pc board hole d	ia.	ø 1.5 m	m	
Solder pin length		3.9 mm		
Protection category according to IEC 60529		IP 00		
Color		green		

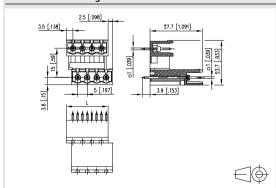
#### **Dimensional drawing**



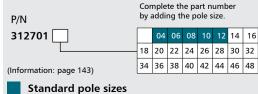
L = (Pole size - 1) \* centerline + 7 mm (0.276 in.)

P/N	Complete the part number by adding the pole size.							
312741		04	06	08	10	12	14	16
	18	20	22	24	26	28	30	32
(Information: page 143)	34	36	38	40	42	44	46	48

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 7 mm (0.276 in.)







for PR066xxHBEC	Page
SP046xxVBNC (ASP046)	57
SP066xxVBNC	57

- SP066xxVBPC 58

  RP016xxVBLC (Type 249) 118
- **PRP016xxSBLC (Type 250)** 119
- **RP036xxHBLC (Type 213)** 120
- **RP036xxHBLD (Type 214)** 120

Accessories	Page
for PR066xxHBEC	
700024	207

#### **Terminal blocks**

for PR066xxHBBN	Page
SP046xxVBNC (ASP046)	57
RP016xxVBLC (Type 249)	118
RP016xxSBLC (Type 250)	119
RP036xxHBLC (Type 213)	120

# Accessories Page

**PP036xxHBLD (Type 214)** 120

for **PR066xxHBBN 700024**297



- pin header, THR solderable
- centerline 5.08 mm, direction of connection 90°
- open ends
- color black
- Tape & Reel packaging
- codeable

#### **Technical data**

c <b>%</b> 'us V / A	300 / 15			
13.5 A / 320 V / 4 kV / 3	IEC 61984			
Overvoltage category	III	Ш	II	
Pollution degree	3	2	2	
Rated voltage	320 V	800 V	800 V	
Rated test voltage	4 kV	4.0 kV	4 kV	
Insulating material class	CTI 600			
Clearance and creepage distant	es 4.08 m	m		
Solder pin dimension	1.0 x 1.	0 mm		
Recommended pc board hole d	ia. ø 1.5 m	ø 1.5 mm		
Solder pin length	3.4 mm	3.4 mm		
Protection category according to IEC 60529	IP 00			
Color	black			

# Product family Pole size Color Option PRO66 XXHBBN\*(Type 178) Centerline Design Function \*old product name

- pin header, THR solderable
- centerline 5.08 mm, direction of connection 90°
- closed ends
- color black
- Tape & Reel packaging
- codeable

to IEC 60529

Color

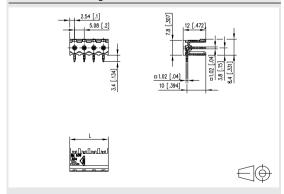
#### **Technical data**

c <b>AL</b> us V / A	300 / 15			
13.5 A / 320 V / 4 kV / 3	IEC 6198	4		
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Rated voltage	320	V 800 V	800 V	
Rated test voltage	4 kV	4.0 kV	4 kV	
Insulating material class	CTI 6	500		
Clearance and creepage distance	es 4.08	mm		
Solder pin dimension	1.0 x	1.0 x 1.0 mm		
Recommended pc board hole di	a. ø 1.5	ø 1.5 mm		
Solder pin length	3.45	mm		
Protection category according	ID 00			

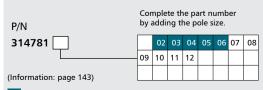
IP 00

black

#### **Dimensional drawing**

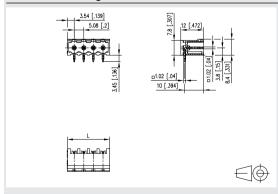


L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)

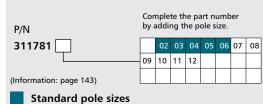


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 7.08 mm (0.279 in.)





# METZ

#### **Terminal blocks**

for PT106xxHGDN	Page
SP046xxVBNC (ASP046)	57
RP016xxVBLC (Type 249)	118
RP016xxSBLC (Type 250)	119

#### **Terminal blocks**

for PT116xxHBEC	Page
SP046xxVBNC (ASP046)	57
RP016xxVBLC (Type 249)	118
RP016xxSBLC (Type 250)	119
RP036xxHBLC (Type 213)	120
RP036xxHBLD (Type 214)	120

#### Accessories Page

for PT116xxHBEC 700024 297





- pin header, solderable
- centerline 5.08 mm, direction of connection 90°
- closed ends
- color green
- two rows, equal poles

#### Technical data

c**W**us V / A 300 / 15 13.5 A / 320 V / 4 kV / 3 IEC 61984 Overvoltage category Ш Pollution dearee 3 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Clearance and creepage distances 4.08 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.5 mm Protection category according IP 00 to IEC 60529 Color areen







- pin header, solderable
- centerline 5.08 mm, direction of connection 90°
- open ends, fittable without loss of poles
- codeable

#### **Technical data**

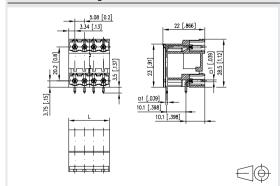


Overvoltage category Ш Ш ш Pollution dearee 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Clearance and creepage distances 4.08 mm

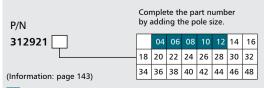
Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.45 mm

Protection category according IP 00 to IEC 60529 Color black

#### **Dimensional drawing**

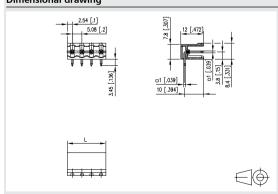


L = (Pole size - 1) \* centerline + 6.68 mm (0.263 in.)

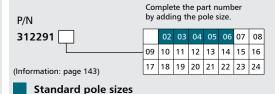


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 4.98 mm (0.196 in.)







for PT116xxHBBN	Page
SP046xxVBNC (ASP046)	57
RP016xxVBLC (Type 249)	118
RP016xxSBLC (Type 250)	119

**TP036xxHBLC (Type 213)** 120

**RP036xxHBLD (Type 214)** 120

Accessories	Pag
for PT116xxHBBN	
700024	297

#### **Terminal blocks**

icililliai biocks	
for PT116xxHBBF	Pag
SP066xxVBNF	58
SP066xxVBPF	59
PRP016xxVBLF (Type 251)	119

**RP036xxHBLF (Type 217)** 121

RP036xxHBLS (Type 218) 121

Accessories Page for PT116xxHBBF 700024 297





- pin header, solderable
- centerline 5.08 mm, direction of connection 90°
- closed ends
- color black
- codeable

#### **Technical data**

c <b>Ri</b> us V / A	300 / 15					
13.5 A / 320 V / 4 kV / 3 IEC 61984						
Overvoltage category	Ш	Ш	II			
Pollution degree	3	2	2			
Rated voltage	320 V	800 V	800 V			
Rated test voltage	4 kV	4.0 kV	4 kV			
Insulating material class	CTI 600	CTI 600				
Clearance and creepage distance	es 4.08 mm	4.08 mm				
Solder pin dimension	1.0 x 1.0	1.0 x 1.0 mm				
Recommended pc board hole d	ia. ø 1.5 mm	ø 1.5 mm				
Solder pin length	3.45 mm	3.45 mm				
Protection category according	ID 00					
to IEC 60529		IP 00				
Color	black					

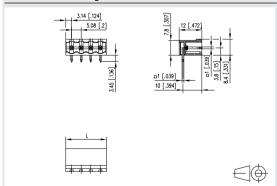


- pin header, solderable
- centerline 5.08 mm, direction of connection 90°
- closed ends
- · color black, mounting flange
- codeable

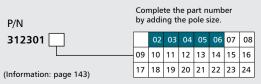
#### **Technical data**

c <b>AL</b> us V / A	300 /	15			
13.5 A / 320 V / 4 kV / 3	IEC 61	984			
Overvoltage category	III		Ш	II	
Pollution degree	3		2	2	
Rated voltage	32	20 V	800 V	800 V	
Rated test voltage	4	kV	4.0 kV	4 kV	
Insulating material class	CT	TI 600			
Clearance and creepage distance	es 4.	08 mn	n		
Solder pin dimension	1.	1.0 x 1.0 mm			
Recommended pc board hole d	ia. ø	ø 1.5 mm			
Solder pin length	3.	45 mn	n		
Protection category according		00			
to IEC 60529	IP	00			
Color	bl	ack			

#### **Dimensional drawing**

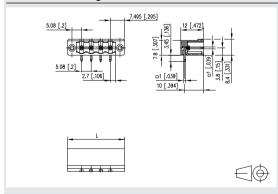


L = (Pole size - 1) \* centerline + 6.28 mm (0.247 in.)

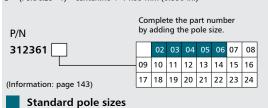


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 14.99 mm (0.590 in.)







for PT166xxHGDN	Page
SP046xxVBNC (ASP046)	57
RP016xxSBLC (Type 250)	119
PRO36xxHRI D (Type 214)	120

#### **Terminal blocks**

for PR016xxVBHC Page RP026xxIBWU (Type 079) 118





- pin header, solderable
- centerline 5.08 mm, direction of connection 90°
- · closed ends
- color green
- staggered pins, double stacked

#### Technical data

c**PL**us V / A 300 / 15 13.5 A / 320 V / 4 kV / 3 IEC 61984 Overvoltage category Ш Pollution degree 2 2 3 Rated voltage 320 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Clearance and creepage distances 4.08 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.5 mm Protection category according IP 00 to IEC 60529 green Color

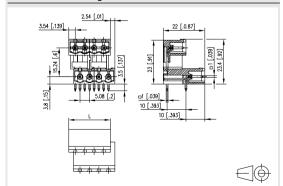


- pin header, THR solderable
- centerline 5.08 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black

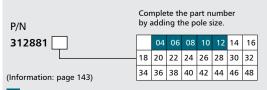
#### **Technical data**

c <b>AL</b> us V / A	300	/ 15			
SEV Reg 130002 10 A / 250 V / 4 kV / 3 IEC 61984					
Overvoltage category	III	III	II		
Pollution degree	3	2	2		
Rated voltage	250 V	500 V	500 V		
Rated test voltage	4.0 kV	4 kV	4.0 kV		
Insulating material class	CTI 400				
Clearance and creepage distances	3.78 mn	n			
Solder pin dimension	1.0 mm				
Recommended pc board hole dia.	ø 1.3 mi	m			
Solder pin length	3.6 mm				
Protection category according					
to IEC 60529	IP 00				
Color	black				

#### **Dimensional drawing**

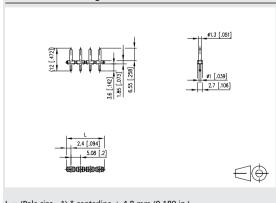


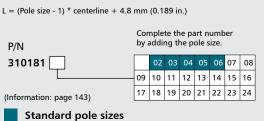
L = (Pole size - 1) \* centerline + 7.08 mm (0.279 in.)



Standard pole sizes

# Dimensional drawing







Pin headers & female connectors



#### **Terminal blocks**

for PR016xxVBVC Page RP026xxIBWU (Type 079) 118

#### Terminal blocks

for PM016xxVBHC Page RP026xxIBWU (Type 079) 118





- · pin header, THR solderable
- centerline 5.08 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black

#### **Technical data**

c**Sl**us V / A 300 / 15 SEV Reg 130002 10 A / 250 V / 4 kV / 3 IEC 61984 Overvoltage category Ш Ш П Pollution degree 3 2 2 Rated voltage 250 V 500 V 500 V Rated test voltage 4.0 kV 4.0 kV 4 kV CTI 400 Insulating material class Clearance and creepage distances 3.78 mm 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.4 mm Protection category according IP 00 to IEC 60529 black Color



- pin header, SMT solderable
- centerline 5.08 mm, direction of connection vertical 0°

Ш

3

Ш

2

ш

2

320 V

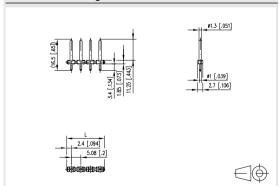
- fittable without loss of poles
- color black
- Tape & Reel packaging

#### **Technical data**

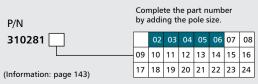
**CTL**us V / A 130 / 10 (1) V/A 130 / 10 Overvoltage category Pollution degree

Rated voltage 160 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 400 Insulating material class Clearance and creepage distances 2.5 mm Solder pin dimension 2.5 mm Protection category according IP 00 to IEC 60529 Color black

#### **Dimensional drawing**

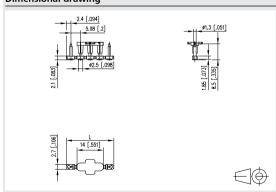


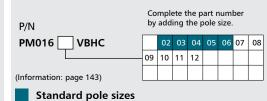
L = (Pole size - 1) \* centerline + 4.8 mm (0.189 in.)



Standard pole sizes

#### **Dimensional drawing**







METZ

#### Terminal blocks

for PR066xxHBBF Page SP066xxVBNF 58 SP066xxVBPF 59

RP016xxVBLF (Type 251) 119

#### **Accessories** Page

for PR066xxHBBF 700024 297

#### Terminal blocks

for PR066xxVBBF Page SP066xxVBNF 58

#### **Accessories** Page

for PR066xxVBBF 700024 297





- pin header, THR solderable
- centerline 5.08 mm, direction of connection 90°
- closed ends
- · color black, mounting flange
- Tape & Reel packaging
- codeable

#### **Technical data**

c**Ti**us V / A 300 / 15

13.5 A / 320 V / 4 kV / 3 IEC 61984 Overvoltage category Ш Pollution degree 3 2 2 800 V 800 V Rated voltage 320 V Rated test voltage 4 kV 4.0 kV 4 kV

Insulating material class **CTI 600** Clearance and creepage distances 4.08 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.45 mm

Protection category according IP 00 to IEC 60529 Color black



- pin header, THR solderable
- centerline 5.08 mm, direction of connection vertical 0°
- closed ends
- color black, mounting flange
- Tape & Reel packaging
- codeable

#### **Technical data**

c**Sl**us V / A 300 / 15

13.5 A / 320 V / 4 kV / 3 IEC 61984 Overvoltage category

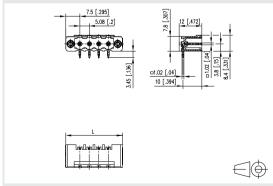
Pollution degree 3 7 2 800 V Rated voltage 320 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV

Insulating material class **CTI 600** Clearance and creepage distances 4.08 mm Solder pin dimension 1.0 x 1.0 mm

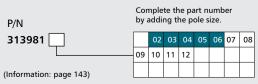
Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.25 mm

Protection category according IP 00 to IEC 60529 Color black

#### **Dimensional drawing**

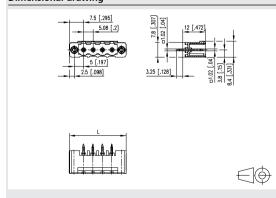


L = (Pole size - 1) \* centerline + 7.08 mm (0.279 in.)

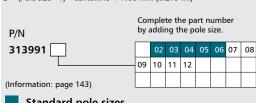


Standard pole sizes

#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 7.08 mm (0.279 in.)



Standard pole sizes



700024



Page

#### **Terminal blocks**

for PR066xxVBEC

SP046XXVBNC (ASP046)	5/
SP066xxVBNC	57
SP066xxVBPC	58
RP016xxVBLC (Type 249)	118
RP016xxSBLC (Type 250)	119

RP036xxHBLC (Type 213)		
RP036xxHBLD (Type 214)	120	

Accessories	rage
for PR066xxVBEC	
700024	297

#### **Terminal blocks**

for PR066xxVBBN		
RP016xxVBLC (Type 249)	118	
RP016xxSBLC (Type 250)	119	

Accessories	Page
for PR066xxVBBN	

297



- pin header, THR solderable
- centerline 5.08 mm, direction of connection vertical 0°
- · open ends
- color black
- Tape & Reel packaging
- codeable

#### **Technical data**

c <b>AL</b> 'us V / A	300 / 15		
13.5 A / 320 V / 4 kV / 3	IEC 61984		
Overvoltage category	III I	II	II
Pollution degree	3 2	2	2
Rated voltage	320 V 8	300 V	800 V
Rated test voltage	4 kV 4	1.0 kV	4 kV
Insulating material class	CTI 600		
Clearance and creepage distance	es 4.08 mm		
Solder pin dimension	1.0 x 1.0 ı	mm	
Recommended pc board hole d	ia. ø 1.5 mm		
Solder pin length	3.25 mm		
Protection category according			
to IEC 60529	IP 00		
Color	black		



- pin header, THR solderable
- centerline 5.08 mm, direction of connection vertical 0°
- closed ends
- color black
- Tape & Reel packaging
- codeable

to IEC 60529 Color

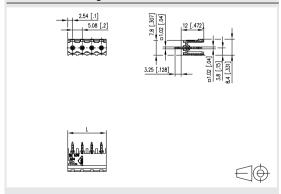
#### **Technical data**

c <b>PL</b> us V / A	300	/ 15		
13.5 A / 320 V / 4 kV / 3	IEC	61984		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Rated voltage		320 V	800 V	800 V
Rated test voltage		4 kV	4.0 kV	4 kV
Insulating material class		CTI 600		
Clearance and creepage distance	es	4.08 mi	m	
Solder pin dimension		1.0 x 1.	0 mm	
Recommended pc board hole d	ia.	ø 1.5 m	m	
Solder pin length		3.25 mi	m	
Protection category according		ID 00		

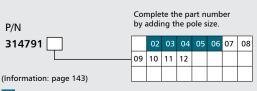
IP 00

black

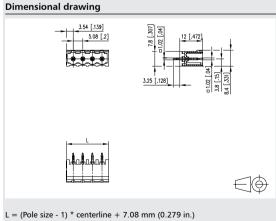
#### **Dimensional drawing**



L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)



Standard pole sizes









for PT106xxVGDN	Page
SP046xxVBNC (ASP046)	57
RP016xxVBLC (Type 249)	118
RP016xxSBLC (Type 250)	119

#### **Terminal blocks**

for PT116xxVBEC	Page
SP046xxVBNC (ASP046)	57
SP066xxVBNC	57
SP066xxVBPC	58
RP016xxVBLC (Type 249)	118
RP016xxSBLC (Type 250)	119
RP036xxHBLC (Type 213)	120
RP036xxHBLD (Type 214)	120
RP01AxxVBLC (Type 249)	126

#### Accessories Page

for PT116xxVBEC 700024 297







- pin header, solderable
- centerline 5.08 mm, direction of connection vertical 0°
- · closed ends
- color green
- · two rows, aligned

#### Technical data

c <b>PL</b> us V / A	00 / 15	
13.5 A / 320 V / 4 kV / 3 I	EC 61984	
Overvoltage category	III III	II
Pollution degree	3 2	2
Rated voltage	320 V 800	V 800 V
Rated test voltage	4 kV 4.0 k	V 4 kV
Insulating material class	CTI 600	
Clearance and creepage distance	s 4.08 mm	
Solder pin dimension	1.0 x 1.0 mm	
Recommended pc board hole dia	. ø 1.5 mm	
Solder pin length	3.9 mm	
Protection category according		
to IEC 60529	IP 00	
Color	green	







- pin header, solderable
- centerline 5.08 mm, direction of connection vertical 0°
- open ends, fittable without loss of poles
- color black
- codeable

#### **Technical data**

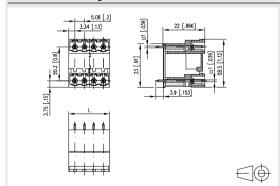
c**%**us V / A 300 / 15 13.5 A / 320 V / 4 kV / 3 IEC 61984

Overvoltage category Ш Ш ш Pollution degree 2 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Clearance and creepage distances 4.08 mm Solder pin dimension 1.0 x 1.0 mm

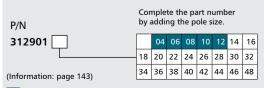
Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.25 mm Protection category according to IEC 60529

IP 00 black

#### **Dimensional drawing**



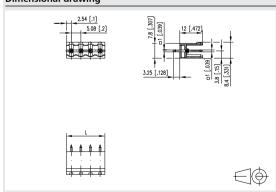
L = (Pole size - 1) \* centerline + 6.68 mm (0.263 in.)

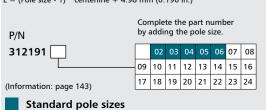


Standard pole sizes

#### **Dimensional drawing**

Color













SP066xxVBPC

for PT116xxVBBN	Page
SP046xxVBNC (ASP046)	57
SP046xxVBNC (ASP046)	57

- SP066xxVBNC
- RP016xxVBLC (Type 249) 118
- RP016xxSBLC (Type 250) 119
- **RP036xxHBLC (Type 213)** 120 **PRP036xxHBLD (Type 214)** 120
- **RP01AxxVBLC (Type 249)** 126

Accessories	Page
for PT116xxVBBN	
700024	297

#### **Terminal blocks**

for PT116xxVBBF	Page
SP066xxVBNF	58
SP066xxVBPF	59
RP016xxVBLF (Type 251)	119
RP036xxHBLF (Type 217)	121

Accessories	Page
for PT116xxVBBF	
700024	297

**RP036xxHBLS (Type 218)** 121





- pin header, solderable
- centerline 5.08 mm, direction of connection vertical 0°
- · closed ends
- · color black
- codeable

Page

#### Technical data

c <b>AL</b> 'us V / A	300 / 15		
13.5 A/320 V/4 kV/3	IEC 61984		
Overvoltage category	III I	III	II
Pollution degree	3	2	2
Rated voltage	320 V	800 V	800 V
Rated test voltage	4 kV	4.0 kV	4 kV
Insulating material class	CTI 600		
Clearance and creepage distance	es 4.08 mm		
Solder pin dimension	1.0 x 1.0	mm	
Recommended pc board hole di	a. ø 1.5 mm	1	
Solder pin length	3.25 mm		
Protection category according			
to IEC 60529	IP 00		
Color	black		





- pin header, solderable
- centerline 5.08 mm, direction of connection vertical 0°
- closed ends
- color black, mounting flange
- codeable

#### **Technical data**

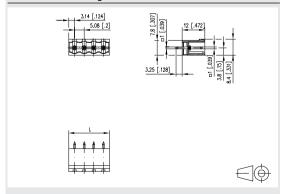
c**%**us V / A 300 / 15 13.5 A / 320 V / 4 kV / 3 IEC 61984

Overvoltage category Ш ш Pollution degree 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Clearance and creepage distances 4.08 mm

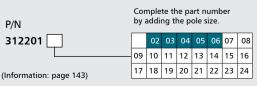
Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.25 mm Protection category according IP 00 to IEC 60529

Color black

#### **Dimensional drawing**

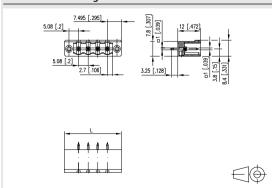


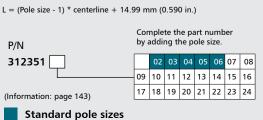
L = (Pole size - 1) \* centerline + 6.28 mm (0.247 in.)



Standard pole sizes

#### **Dimensional drawing**









for PT166xxVGDN Page
SP046xxVBNC (ASP046) 57

**RP016xxSBLC (Type 250)** 119

RP036xxHBLD (Type 214) 120



- PIIOOXX
- pin header, solderable
   centerline 5.08 mm, direction of connection vertical 0°

\*(Type 286)
\*old product name

- closed ends
- color green
- staggered pins, double stacked

#### **Technical data**

c **N**us V/A 300 / 15 13.5 A / 320 V / 4 kV / 3 IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 320 V
 800 V
 800 V

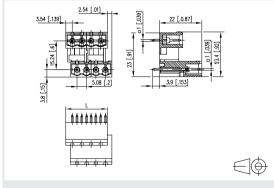
 Rated test voltage
 4 kV
 4.0 kV
 4 kV

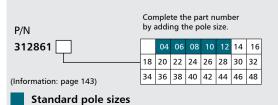
Insulating material class CTI 600
Clearance and creepage distances 4.08 mm
Solder pin dimension 1.0 x 1.0 mm

Recommended pc board hole dia.
Solder pin length

Protection category according to IEC 60529 Color ø 1.5 mm 3.9 mm IP 00 green

#### **Dimensional drawing**









Accessories Page

for PT118xxHBEC 700024 297

#### Terminal blocks

Accessories Page

for PT118xxHBBC 700024 297





- pin header, solderable
- centerline 7.62 mm, direction of connection 90°
- open ends, fittable without loss of poles
- · color black
- codeable

#### **Technical data**

**c % us** V / A / AWG 300 / 15 / 28 - 14

13.5 A / 500 V / 6 kV / 3 IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 500 V
 1250 V
 1250 V

 Rated test voltage
 6.0 kV
 6.0 kV
 6 kV

 Insulating material class
 CTI 600

Clearance and creepage distances 6.6 mm

Solder pin dimension 1.0 x 1.0 mm

Recommended pc board hole dia. Ø 1.5 mm

Solder pin length 3.45 mm

Protection category according to IEC 60529 IP 00 Color black



- pin header, solderable
- centerline 7.62 mm, direction of connection 90°
- closed ends
- color black
- codeable

#### **Technical data**

c**Al**us V / A / AWG 300 / 15 / 28 - 14

13.5 A / 500 V / 6 kV / 3 IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 500 V
 1250 V
 1250 V

 Rated test voltage
 6.0 kV
 6.0 kV
 6 kV

ø 1.5 mm

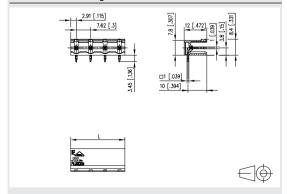
3.45 mm

Insulating material class CTI 600
Clearance and creepage distances 6.6 mm
Solder pin dimension 1.0 x 1.0 mm

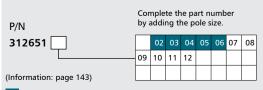
Recommended pc board hole dia. Solder pin length Protection category according

to IEC 60529 IP 00 Color black

#### **Dimensional drawing**

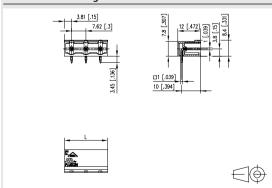


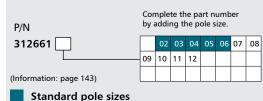
L = (Pole size - 1) \* centerline + 5.82 mm (0.229 in.)



Standard pole sizes

#### **Dimensional drawing**







\*old product name



#### **Terminal blocks**

Accessories Page

for PT118xxVBEC

**700024** 297

#### Terminal blocks

IN O TOXXVBEC (Type 202)

#### Accessories Page

for PT118xxVBBC 700024 297







- pin header, solderable
- centerline 7.62 mm, direction of connection vertical 0°
- · open ends, fittable without loss of poles
- color black
- codeable

#### **Technical data**

c **Ni**us V / A / AWG 300 / 15 / 28 - 14

13.5 A / 500 V / 6 kV / 3 IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 500 V
 1250 V
 1250 V

 Rated test voltage
 6.0 kV
 6.0 kV
 6 kV

Insulating material class CTI 600
Clearance and creepage distances 6.6 mm
Solder pin dimension 1.0 x 1.0 mm

Recommended pc board hole dia. Ø 1.5 mm

Solder pin length

State of the state of t

Protection category according to IEC 60529 IP 00 Color black



- Contorling
- centerline 7.62 mm, direction of connection vertical 0°
- closed ends
- color black
- codeable

#### **Technical data**

c**%**us V / A / AWG 300 / 15 / 28 - 14

13.5 A / 500 V / 6 kV / 3 IEC 61984

 Overvoltage category
 III
 III
 II

 Pollution degree
 3
 2
 2

 Rated voltage
 500 V
 1250 V
 1250 V

 Rated test voltage
 6.0 kV
 6.0 kV
 6 kV

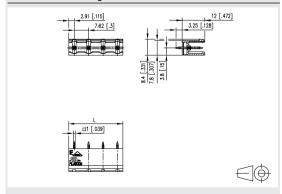
3.25 mm

Insulating material class CTI 600
Clearance and creepage distances 6.6 mm
Solder pin dimension 1.0 x 1.0 mm
Recommended pc board hole dia. Ø 1.5 mm

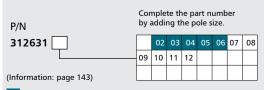
Solder pin length Protection category according to IEC 60529

to IEC 60529 IP 00 Color black

#### **Dimensional drawing**

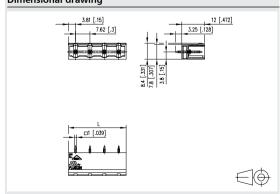


L = (Pole size - 1) \* centerline + 5.82 mm (0.229 in.)

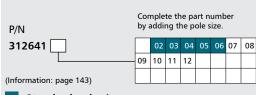


Standard pole sizes

#### Dimensional drawing



L = (Pole size - 1) \* centerline + 7.62 mm (0.300 in.)



Standard pole sizes





for PT049xxHBBN Page RP019xxWBLC (Type 049) 123





PT049xxHBVC
\*(Type 031)

- pin header, solderable
- centerline 10.00 mm, direction of connection 90°
- open ends, fittable without loss of poles
- · color black

#### **Technical data**

V/A 600/10 10 A/630 V/6 kV/3 IEC 61984

Overvoltage category Ш П Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8.0 kV 8 kV Insulating material class Clearance and creepage distances 8.7 mm Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm Solder pin length 2.9 mm

Protection category according to IEC 60529 IP 00 Color black



\*old product name

pin header, solderable

- centerline 10.00 mm, direction of connection 90°
- · closed ends
- color black

to IEC 60529

Color

#### **Technical data**

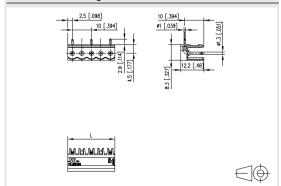
c **N**us V/A 600/15

Overvoltage category Ш Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8 kV 8.0 kV **CTI 600** Insulating material class Clearance and creepage distances 8.7 mm Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm Solder pin length 3.6 mm Protection category according

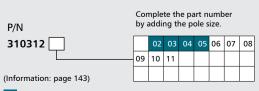
IP 00

black

#### **Dimensional drawing**

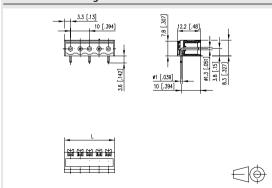


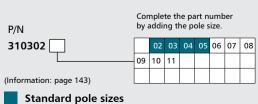
L = (Pole size - 1) \* centerline + 5 mm (0.197 in.)



Standard pole sizes

#### **Dimensional drawing**









for PT119xxHBBF Page
SP129xxVBNF (ASP129) 60

**RP019xxVBLF (Type 351)** 125

#### Accessories Page

for **PT119xxHBBF 700024**297

#### Terminal blocks

for PT069xxVBVN Page RP029xxIBWC (Type 007) 123







- pin header, solderable
- centerline 10.00 mm, direction of connection 90°
- closed ends
- color black, mounting flange

#### **Technical data**

**c%** us V / A 600 / 15

13.5 A / 630 V / 6 kV / 3 IEC 61984

Overvoltage category П Ш Pollution degree 3 2 1600 V 1600 V Rated voltage 630 V Rated test voltage 8 kV 8.0 kV 8.0 kV CTI 600 Insulating material class Clearance and creepage distances 9 mm 1.0 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.5 mm 3.45 mm Solder pin length Protection category according

to IEC 60529 IP 00 Color black





PTO69xxVBVN\*(Type 042)

Centerline Design Function \*old product name

- pin header, solderable
- centerline 10.00 mm, direction of connection vertical 0°
- open ends, guiding rips
- · color black

#### **Technical data**

c **N**us V/A 600/15

 Overvoltage category
 III
 III
 III

 Pollution degree
 3
 2
 2

 Rated voltage
 630 V
 1600 V
 1600 V

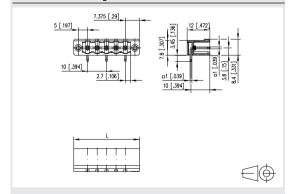
 Rated test voltage
 8.0 kV
 8 kV
 8.0 kV

 Insulating material class
 CTI 600
 CTI 600
 CTI 600

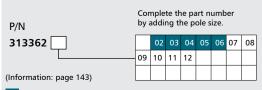
Clearance and creepage distances 8.7 mm
Solder pin dimension 1.0 mm
Recommended pc board hole dia. Ø 1.3 mm
Solder pin length 3.35 mm
Protection category according

to IEC 60529 IP 00 Color black

#### **Dimensional drawing**

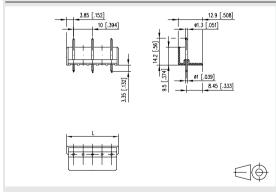


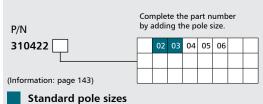
L = (Pole size - 1) \* centerline + 14.75 mm (0.581 in.)



Standard pole sizes

#### **Dimensional drawing**









for	PT049xxVBBN	Page
Ŧ	RP019xxWBLC (Type 049)	123

#### **Terminal blocks**

for PT119xxVBBN	Page
SP049xxVBNC (ASP049)	60

- RP039xxHBLC (Type 313) 124
- **PRO19xxVBLC** (Type 349) 124

#### **Accessories** Page for PT119xxVBBN

700024 297





- pin header, solderable
- centerline 10.00 mm, direction of connection vertical 0°
- closed ends
- color black

#### **Technical data**

c**Sl**us V / A 600 / 15 10 A / 630 V / 6 kV / 3 IEC 61984 Overvoltage category Ш П Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8.0 kV 8 kV Insulating material class Clearance and creepage distances 8.7 mm Solder pin dimension 1.0 mm Recommended pc board hole dia. ø 1.3 mm Solder pin length 5.2 mm Protection category according IP 00 to IEC 60529 black Color

- centerline 10.00 mm, direction of connection vertical 0°
- closed ends
- color black

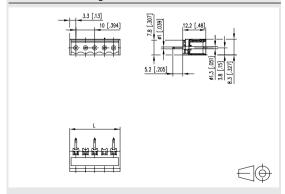
Color

#### **Technical data**

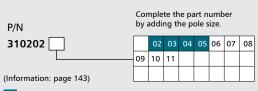
c**Ri**us V / A 600 / 15 13.5 A / 630 V / 6 kV / 3 IEC 61984 Overvoltage category Ш Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V 8.0 kV 8 kV Rated test voltage 8.0 kV **CTI 600** Insulating material class Clearance and creepage distances 9 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm 3.25 mm Solder pin length Protection category according IP 00 to IEC 60529

black

#### **Dimensional drawing**

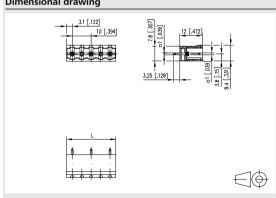


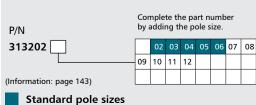
L = (Pole size - 1) \* centerline + 6.6 mm (0.260 in.)



Standard pole sizes

#### **Dimensional drawing**







# METZ

#### **Terminal blocks**

for PT119xxVBBF Page SP129xxVBNF (ASP129) 60

RP019xxVBLF (Type 351) 125

#### **Accessories** Page

for PT119xxVBBF 700024 297



- pin header, solderable
- $\bullet$  centerline 10.00 mm, direction of connection vertical  $0^\circ$
- · closed ends
- · color black, mounting flange

#### **Technical data**

c**TU**us V / A 600 / 15

13.5 A / 630 V / 6 kV / 3 IEC 61984

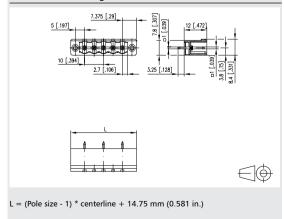
Overvoltage category Ш Ш П Pollution degree 3 2 2 1600 V 1600 V Rated voltage 630 V Rated test voltage 8.0 kV 8 kV 8.0 kV

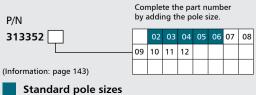
Insulating material class CTI 600 Clearance and creepage distances 9 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.25 mm

Protection category according IP 00 to IEC 60529

Color black

#### **Dimensional drawing**









for DT11AvvUDEC

TOT PITTAXXHBEC	Pag
SP04AxxVBNC (ASP04A)	61
RP01AxxVBLC (Type 249)	126
RP03AxxHBLC (Type 213)	127
RP03AxxHBLD (Type 214)	127

Accessories	Page
for PT11AxxHBEC	
700024	297

#### **Terminal blocks**

for PT11AxxHBBN  SP04AxxVBNC (ASP04A)	Page 61
RP01AxxVBLC (Type 249)	126
RP03AxxHBLC (Type 213)	127

RP03AxxHBI D (Type 214)	127

Accessories	Page
for PT11AxxHBBN	
700024	297





- pin header, solderable
- centerline 10.16 mm, direction of connection 90°
- open ends, fittable without loss of poles
- color black

Page

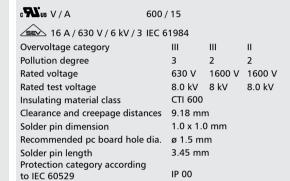
#### **Technical data**

c <b>PL'</b> us V / A				
c Taus V / A	600	) / 15		
13.5 A / 630 V / 6 kV / 3	IEC	61984		
Overvoltage category		Ш	Ш	II
Pollution degree		3	2	2
Rated voltage		630 V	1600 V	1600 V
Rated test voltage		8.0 kV	8 kV	8.0 kV
Insulating material class		CTI 600		
Clearance and creepage distance	es	9.18 mn	า	
Solder pin dimension		1.0 x 1.0	) mm	
Recommended pc board hole di	a.	ø 1.5 m	n	
Solder pin length		3.45 mn	า	
Protection category according				
to IEC 60529		IP 00		
Color		black		

- pin header, solderable
- centerline 10.16 mm, direction of connection 90°
- · closed ends
- color black

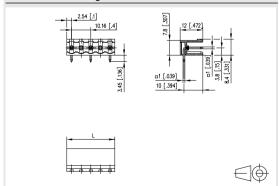
Color

#### **Technical data**

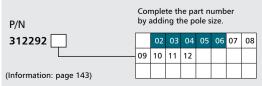


black

#### **Dimensional drawing**

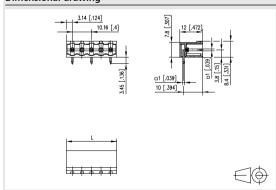


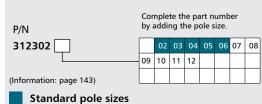
L = (Pole size - 1) \* centerline + 5.08 mm (0.200 in.)



Standard pole sizes

#### **Dimensional drawing**







# CONNEC

METZ

#### **Terminal blocks**

for PT11AxxHBBF	Page	
RP01AxxVBLF (Type 251)	126	
RP03AxxHBLF (Type 217)	128	
RP03AxxHBLS (Type 218)	128	

#### **Terminal blocks**

for PT11AxxVBEC	Page
SP04AxxVBNC (ASP04A)	61
₽ RP03AxxHRLC (Type 213)	127

**PRO3AxxHBLD (Type 214)** 127

# Accessories Page for PT11AxxVBEC

**700024** 297





- pin header, solderable
- centerline 10.16 mm, direction of connection 90°
- · closed ends
- · color black, mounting flange

#### **Technical data**

c**Sl**us V / A 600 / 15 13.5 A / 630 V / 6 kV / 3 IEC 61984 Overvoltage category Ш П Pollution degree 3 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8.0 kV 8 kV Insulating material class Clearance and creepage distances 9.18 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm 3.45 mm Solder pin length Protection category according IP 00 to IEC 60529

black





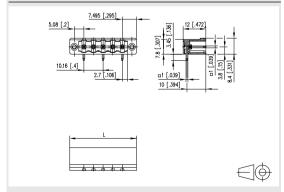
- pin header, solderable
- centerline 10.16 mm, direction of connection vertical 0°
- open ends, fittable without loss of poles
- color black

#### **Technical data**

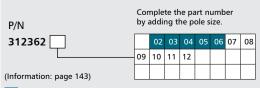
c <b>Mu</b> s V / A 6	00 / 15		
13.5 A / 630 V / 6 kV / 3 IE	C 61984		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	630 V	1600 V	1600 V
Rated test voltage	8.0 kV	8 kV	8.0 kV
Insulating material class	CTI 600		
Clearance and creepage distances	9.18 m	m	
Solder pin dimension	1.0 x 1.	0 mm	
Recommended pc board hole dia	. ø 1.5 m	ım	
Solder pin length	3.25 m	m	
Protection category according	ID 00		
to IEC 60529	IP 00		
Color	black		

#### **Dimensional drawing**

Color

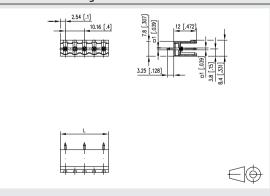


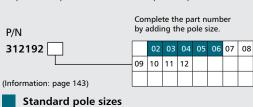
L = (Pole size - 1) \* centerline + 14.99 mm (0.590 in.)



Standard pole sizes

# Dimensional drawing









for PT11AxxVBBN	Page
SP04AxxVBNC (ASP04A)	61
RP03AxxHBLC (Type 213)	127

#### **Accessories** Page

**RP03AxxHBLD (Type 214)** 127

for PT11AxxVBBN 700024 297

#### Terminal blocks

for DT11 Avv\/DDE

for PT11AxxVBBF	Page
RP01AxxVBLF (Type 251)	126
RP03AxxHBLF (Type 217)	128
RP03AxxHBLS (Type 218)	128

#### Accessories Page

for PT11AxxVBBF 700024 297





- pin header, solderable
- centerline 10.16 mm, direction of connection vertical 0°

600 / 15

black

П

2

8.0 kV

- closed ends
- color black

c**Sl**us V / A

Color

#### **Technical data**

13.5 A / 630 V / 6 kV / 3 IEC 61984 Overvoltage category Ш Pollution degree 3 2

Rated voltage 630 V 1600 V 1600 V Rated test voltage 8 kV 8.0 kV CTI 600 Insulating material class Clearance and creepage distances 9.18 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm 3.25 mm Solder pin length Protection category according IP 00 to IEC 60529



- centerline 10.16 mm, direction of connection vertical 0°
- closed ends
- · color black, mounting flange

#### **Technical data**

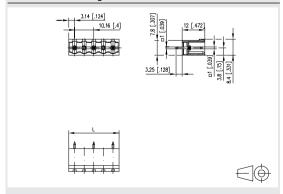
c**Ri**us V / A 600 / 15 13.5 A / 630 V / 6 kV / 3 IEC 61984 Overvoltage category Ш

Pollution degree 3 2 2 Rated voltage 630 V 1600 V 1600 V Rated test voltage 8.0 kV 8 kV 8.0 kV **CTI 600** Insulating material class Clearance and creepage distances 9.18 mm Solder pin dimension 1.0 x 1.0 mm Recommended pc board hole dia. ø 1.5 mm Solder pin length 3.25 mm

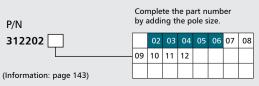
Protection category according to IEC 60529 Color

IP 00 black

#### **Dimensional drawing**

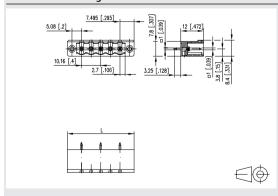


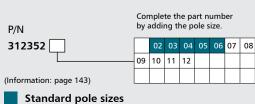
L = (Pole size - 1) \* centerline + 6.28 mm (0.247 in.)

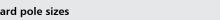


Standard pole sizes

#### **Dimensional drawing**













# **Symbol Definition**

#### **Guiding icons**



Spring clamp terminal block



IDC terminal block



Screw type terminal block



Pin header



Female connector



Ethernet M12



solderable



pluggable



Centerline



Wire entry 90°



Diagonal wire entry



Wire entry 0°



Lift system



Wire protector



modular



Pin header for vertical mounting



Shrouded pin header for vertical mounting



Pin header with open ends for vertical mounting



Pin header with closed ends for vertical mounting



Pin header for horizontal mounting



Shrouded pin header for horizontal mounting



Pin header with open ends for horizontal mounting



Pin header with closed ends for horizontal mounting



designed for THR



designed for SMT



Tape & Reel possible





#### **Pin Headers**

for FW143xxVBFC Page PW063xxHBEC (Type 527) 147

**PW063xxHBBN (Type 523)** 148

PW063xxVBEC (Type 528) 152

PW063xxVBBN (Type 524) 152

#### Pin Headers

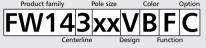
for FT143xxVBFC Page PR043xxHBBN (Type 188) **PT093xxHBBN (Type 342)** 149

PR043xxVBBN (Type 189) 151

PT093xxVBBN (Type 343) 154







- centerline 3.50 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black

Color

#### **Technical data**

RY V/A 300 / 10 \_\_\_\_\_ 10 A / 130 V / 2.5 kV / 3 IEC 61984 Overvoltage category Ш

Pollution degree 3 2 2 Rated voltage 200 V 500 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV CTI 600 Insulating material class Clearance and creepage distances 2.5 mm 0.4 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.2 mm Solder pin length 3.2 mm Protection category according IP 20 to IEC 60529 black







- female connector, solderable, double solder pins
- centerline 3.50 mm, direction of connection vertical 0°
- fittable without loss of poles
- color black

П

board-to-board connection with headers centerline 3.50 mm / 0.138 inches possible

#### **Technical data**

**AL** V/A 300 / 10 10 A / 130 V / 2.5 kV / 3 IEC 61984

Overvoltage category Pollution degree 3 2 2 500 V Rated voltage 200 V 500 V Rated test voltage 2.5 kV 2.5 kV 2.5 kV

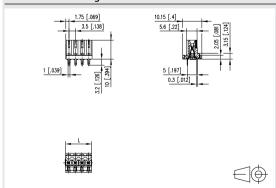
Insulating material class **CTI 600** Clearance and creepage distances 2.5 mm

2 x 0.4 x 1.0 mm Solder pin dimension Recommended pc board hole dia. ø 1.2 mm 3.2 mm

Solder pin length Protection category according

IP 20 to IEC 60529 Color black

#### **Dimensional drawing**

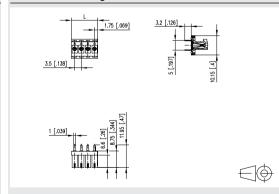


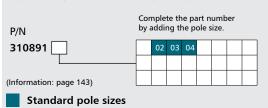
L = (Pole size - 1) \* centerline + 3.5 mm (0.138 in.)

Complete the part number by adding the pole size. P/N 02 03 04 05 06 07 08 FW143 **VBFC** 10 | 11 | 12 | 13 | 14 | 15 | 16 18 19 20 21 (Information: page 143)

Standard pole sizes

#### **Dimensional drawing**











Page

#### **Pin Headers** for FT085xxVBFC

PT045xxHBEC (Type 029)	161
FT045xxHBBN (Type 030)	162
PT045xxHBVC (Type 031)	162
PT055xxHBHC (Type 039)	163
PR015xxVBHC (Type 017)	166
PR015xxVBVC (Type 027)	166
PT045xxVBEC (Type 019)	171

PT045xxVBBN (Type 020) 171



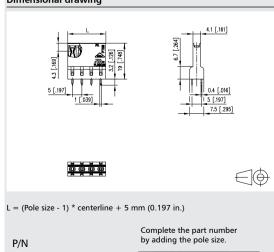
- · female connector, solderable, double solder pins
- centerline 5.00 mm, direction of connection vertical 0°
- fittable without loss of poles
- · color black
- board-to-board connection with headers centerline 5.00 mm / 0.197 inches possible

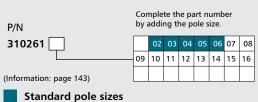
#### **Technical data**

#### 6 A / 250 V / 4 kV / 3 IEC 61984

Overvoltage category Ш Pollution degree 2 Rated voltage 320 V 800 V 800 V Rated test voltage 4 kV 4.0 kV 4 kV CTI 600 Insulating material class Clearance and creepage distances 4 mm Solder pin dimension 2 x 0.4 x 1.0 mm Recommended pc board hole dia. ø 1.4 mm Solder pin length 3.2 mm Protection category according IP 20 to IEC 60529 12 mm Min. insul. strip length black Color

#### **Dimensional drawing**









1	Overview Board-to-board connectors	200
2	Pin headers	203
3	Female connectors	215







The integration of numerous applications into one single device along with the miniaturization of the devices themselves lead to entirely new challenges for PC board connectivity. As competent partner and specialist for connection components and cabling systems, METZ CONNECT has taken these challenges.

In order to integrate several applications into one single device, the PCBs must not only be arranged on top and next to each other but also be connected to each other. This is made possible by so called board-to-board connectors that are available in a multitude of variants.

The new product range of board-to-board connectors from METZ CONNECT offers exactly that connection system which is indispensable for compact, flexible and safe connections of PCBs; in the same time its components will compensate for important displacement tolerances and PCB distances. Especially in building services engineering, data and communication techniques as well as in industrial electronics efficient, space saving, and yet powerful connections of the individual applications integrated into one single device are a must.

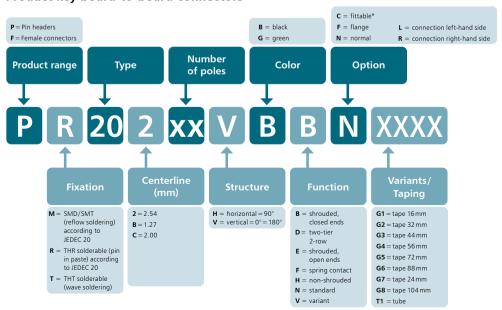
The components presented here are geared to power transmission and ideally suited for modular devices. We will continue to extend this product family in line with the next applications.







#### Product key board-to-board connectors



 $<sup>\</sup>ensuremath{^{\star}}$  Fittable stands for a loose sequencing without loss of poles (without dovetails).



# **Symbol Definition**

#### **Guiding icons**



Spring clamp terminal block



IDC terminal block



Screw type terminal block



Pin header



Female connector



Ethernet M12



solderable



pluggable



Centerline



Wire entry 90°



Diagonal wire entry



Wire entry 0°



Lift system



Wire protector



modular



Pin header for vertical mounting



Shrouded pin header for vertical mounting



Pin header with open ends for vertical mounting



Pin header with closed ends for vertical mounting



Pin header for horizontal mounting



Shrouded pin header for horizontal mounting



Pin header with open ends for horizontal mounting



Pin header with closed ends for horizontal mounting



designed for THR



designed for SMT



Tape & Reel possible







- · pin header, THR solderable
- $\bullet\,$  centerline 1.27 mm, direction of connection  $90^\circ$
- · color black
- single row

Rated current

0.4 x 0.4 mm Solder pin dimension ø 0.65 mm Recommended pc board hole dia.

Protection category according to IEC 60529 Color

IP 00 black

1 A







- pin header, THR solderable
- centerline 1.27 mm, direction of connection 90°
- · color black
- dual rows

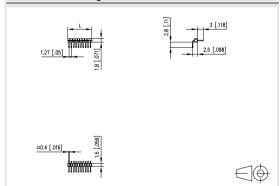
Rated current 1 A

0.4 x 0.4 mm Solder pin dimension ø 0.65 mm Recommended pc board hole dia.

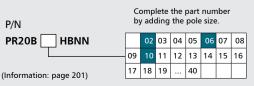
Protection category according

IP 00 to IEC 60529 black Color

#### **Dimensional drawing**

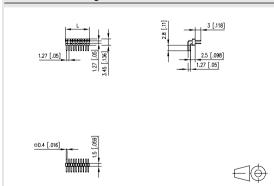


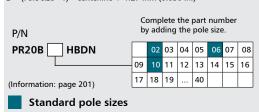
L = (Pole size - 1) \* centerline + 1.27 mm (0.050 in.)



Standard pole sizes

#### **Dimensional drawing**











- pin header, THR solderable
- centerline 1.27 mm, direction of connection vertical  $0^{\circ}$
- color black
- single row

Rated current

Solder pin dimension 0.4 x 0.4 mm Recommended pc board hole dia. Ø 0.65 mm

Protection category according to IEC 60529 Color

IP 00 black

1 A







- pin header, THR solderable
- centerline 1.27 mm, direction of connection vertical 0°
- color black
- dual rows

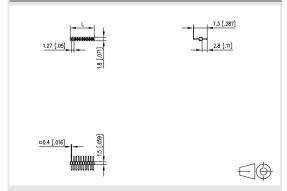
Rated current 1 A
Solder pin dimension 0.4 x 0.4 mm

Solder pin dimension 0.4 x 0.4 m Recommended pc board hole dia. Ø 0.65 mm

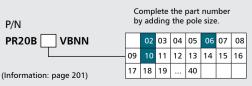
Protection category according

to IEC 60529 IP 00
Color black

#### **Dimensional drawing**

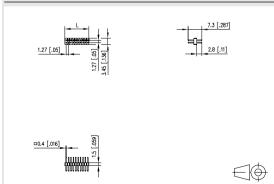


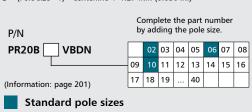
L = (Pole size - 1) \* centerline + 1.27 mm (0.050 in.)



Standard pole sizes

# Dimensional drawing











- nin header SMT solderable
- centerline 1.27 mm, direction of connection vertical 0°
- color black
- single row

Rated current
Solder pin dimension

Protection category according to IEC 60529

Color

1 A 0.4 x 0.4 mm

IP 00 black







- pin header, SMT solderable
- centerline 1.27 mm, direction of connection vertical 0°
- color black
- dual rows

Color

Rated current Solder pin dimension

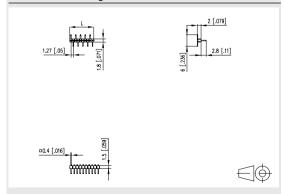
Protection category according to IEC 60529

60529 IP 00 black

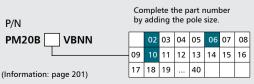
0.4 x 0.4 mm IP 00

1 A

#### **Dimensional drawing**

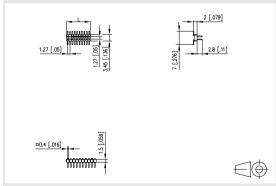


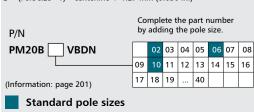
L = (Pole size - 1) \* centerline + 1.27 mm (0.050 in.)



Standard pole sizes

#### **Dimensional drawing**













PR20 CxxHBNN

Centerline Design Function

- pin header, THR solderable
- centerline 2.00 mm, direction of connection  $90^{\circ}$
- · color black
- · Tape & Reel packaging
- single row

Color

Rated current 1 A
Solder pin dimension 0.5 x 0.5 mm
Recommended pc board hole dia.
Protection category according to IEC 60529 IP 00

black





PR20CxxHBDN

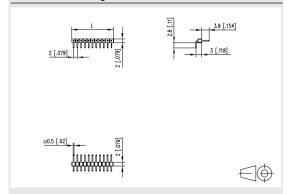
Centerline Design Function

- pin header, THR solderable
- $\bullet$  centerline 2.00 mm, direction of connection  $90^\circ$
- · color black
- Tape & Reel packaging
- · dual rows

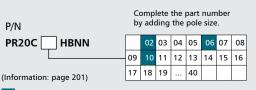
Rated current 1 A
Solder pin dimension 0.5 x 0.5 mm
Recommended pc board hole dia. Ø 0.80 mm
Protection category according

to IEC 60529 IP 00 Color black

#### **Dimensional drawing**

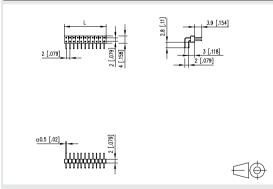


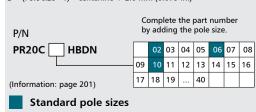
L = (Pole size - 1) \* centerline + 2.0 mm (0.079 in.)



Standard pole sizes

#### **Dimensional drawing**











- pin header, SMT solderable
- centerline 2.00 mm, direction of connection 90°

1 A

0.5 x 0.5 mm

- · color black
- single row

Rated current Solder pin dimension

Protection category according

to IEC 60529 Color

IP 00 black







- pin header, SMT solderable
- centerline 2.00 mm, direction of connection 90°
- · color black
- dual rows

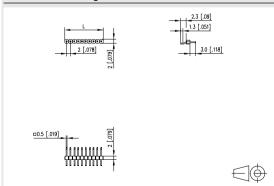
Rated current 1 A 0.5 x 0.5 mm

Solder pin dimension Protection category according

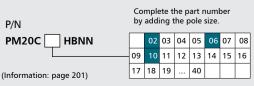
to IEC 60529 Color

IP 00 black

#### **Dimensional drawing**

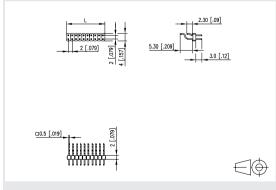


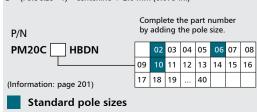
L = (Pole size - 1) \* centerline + 2.0 mm (0.079 in.)



Standard pole sizes

#### **Dimensional drawing**











PR20 CxxVBNN

Centerline Design Function

- pin header, THR solderable
- centerline 2.00 mm, direction of connection vertical  $0^{\circ}$
- color black
- Tape & Reel packaging
- single row

Rated current 1 A
Solder pin dimension 0.5 x 0.5 mm
Recommended pc board hole dia. Ø 0.80 mm
Protection category according to IEC 60529 IP 00
Color black



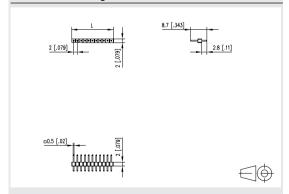


- pin header, THR solderable
- $\bullet\,$  centerline 2.00 mm, direction of connection vertical  $0^\circ$
- · color black
- Tape & Reel packaging
- dual rows

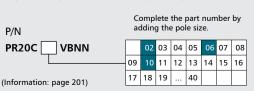
Rated current 1 A
Solder pin dimension 0.5 x 0.5 mm
Recommended pc board hole dia. Ø 0.80 mm
Protection category according

to IEC 60529 IP 00
Color black

#### **Dimensional drawing**

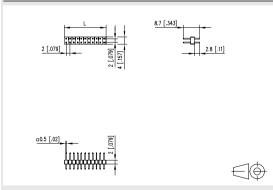


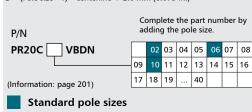
L = (Pole size - 1) \* centerline + 2.0 mm (0.079 in.)



Standard pole sizes

#### **Dimensional drawing**











- centerline 2.00 mm, direction of connection vertical  $0^{\circ}$
- · color black
- Tape & Reel packaging
- single row

Rated current 1 A Solder pin dimension 0.5 x 0.5 mm black Color





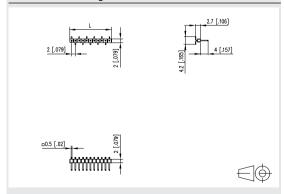


- pin header, SMT solderable
- centerline 2.00 mm, direction of connection vertical 0°
- · color black
- Tape & Reel packaging
- · dual rows

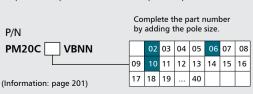
Rated current Solder pin dimension 0.5 x 0.5 mm

black Color

#### **Dimensional drawing**

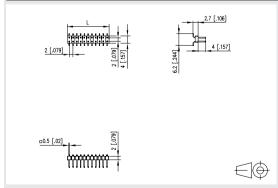


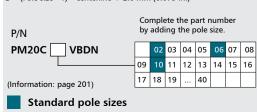
L = (Pole size - 1) \* centerline + 2.0 mm (0.079 in.)



Standard pole sizes

#### **Dimensional drawing**











- · pin header, THR solderable
- centerline 2.54 mm, direction of connection 90°
- · color black
- single row

Rated current Solder pin dimension

0.64 x 0.64 mm ø 1.02 mm Recommended pc board hole dia. Solder pin length 3.00 mm

Protection category according to IEC 60529 Color

3 A

IP 00 black







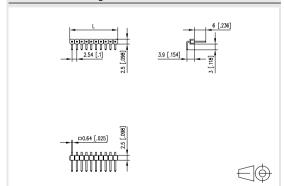
- pin header, THR solderable
- centerline 2.54 mm, direction of connection 90°
- · color black
- dual rows

Rated current 3 A

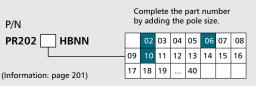
0.64 x 0.64 mm Solder pin dimension ø 1.02 mm Recommended pc board hole dia. Solder pin length 3.00 mm Protection category according

IP 00 to IEC 60529 Color black

#### **Dimensional drawing**

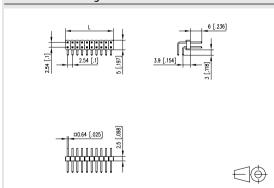


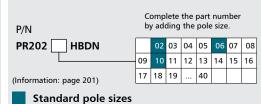
L = (Pole size - 1) \* centerline + 2.19 mm (0.086 in.)



Standard pole sizes

#### **Dimensional drawing**











- pin header, SMT solderable
- $\bullet\,$  centerline 2.54 mm, direction of connection  $90^\circ$
- · color black
- Tape & Reel packaging
- single row

Rated current 3 A

Solder pin dimension 0.64 x 0.64 mm

Color black







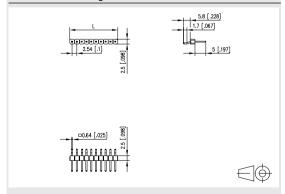
- pin header, SMT solderable
- centerline 2.54 mm, direction of connection 90°
- color black
- Tape & Reel packaging
- · dual rows

Rated current 3 A

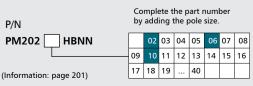
Solder pin dimension 0.64 x 0.64 mm

Color black

#### **Dimensional drawing**

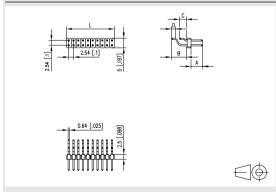


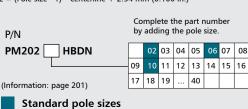
L = (Pole size - 1) \* centerline + 2.54 mm (0.100 in.)



Standard pole sizes

#### **Dimensional drawing**











- pin header, THR solderable
- centerline 2.54 mm, direction of connection vertical  $0^{\circ}$
- · color black
- single row

Rated current Solder pin dimension

Recommended pc board hole dia. Solder pin length

to IEC 60529 Color

Solder pin length
Protection category according
to IEC 60529

ø 1.02 mm 3.0 mm

0.64 x 0.64 mm

3 A

IP 00 black





PR202xxVBDN

Centerline Design Function

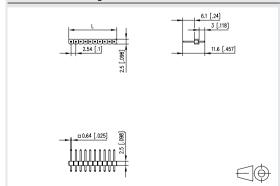
- pin header, THR solderable
- centerline 2.54 mm, direction of connection vertical 0°
- color black
- dual rows

Rated current 3 A

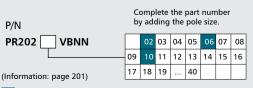
Solder pin dimension 0.64 x 0.64 mm
Recommended pc board hole dia. Ø 1.02 mm
Solder pin length 3.00 mm

Protection category according to IEC 60529 IP 00 Color black

#### **Dimensional drawing**

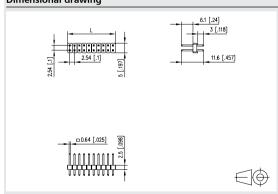


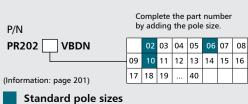
L = (Pole size - 1) \* centerline + 2.54 mm (0.100 in.)



Standard pole sizes

# Dimensional drawing











- centerline 2.54 mm, direction of connection vertical  $0^{\circ}$
- · color black
- Tape & Reel packaging
- single row

Rated current

Solder pin dimension 0.64 x 0.64 mm

black Color





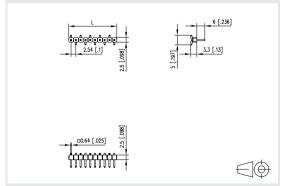


- pin header, SMT solderable
- centerline 2.54 mm, direction of connection vertical 0°
- · color black
- Tape & Reel packaging
- dual rows

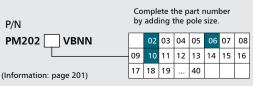
Rated current

Solder pin dimension 0.64 x 0.64 mm black Color

#### **Dimensional drawing**

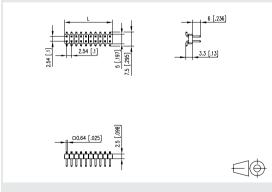


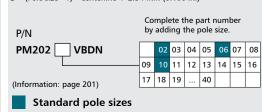
L = (Pole size - 1) \* centerline + 2.54 mm (0.100 in.)



Standard pole sizes

#### **Dimensional drawing**









# **Symbol Definition**

#### **Guiding icons**



Spring clamp terminal block



IDC terminal block



Screw type terminal block



Pin header



Female connector



Ethernet M12



solderable



pluggable



Centerline



Wire entry 90°



Diagonal wire entry



Wire entry 0°



Lift system



Wire protector



modular



Pin header for vertical mounting



Shrouded pin header for vertical mounting



Pin header with open ends for vertical mounting



Pin header with closed ends for vertical mounting



Pin header for horizontal mounting



Shrouded pin header for horizontal mounting



Pin header with open ends for horizontal mounting



Pin header with closed ends for horizontal mounting



designed for THR



designed for SMT



Tape & Reel possible









- · female connector, THR solderable
- centerline 1.27 mm, direction of connection vertical 0°
- · closed ends
- · color black
- Tape & Reel packaging
- single row

Color

1 A Rated current Solder pin dimension 0.5 x 0.15 mm Recommended pc board hole dia. ø 0.6 mm Solder pin length 1.75 mm Protection category according IP 00 to IEC 60529

black



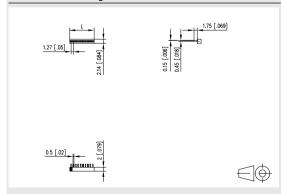




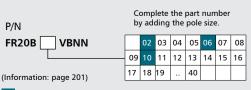
- female connector, THR solderable
- centerline 1.27 mm, direction of connection vertical 0°
- · closed ends
- color black
- Tape & Reel packaging
- dual rows

1 A Rated current Solder pin dimension 0.5 x 0.15 mm Recommended pc board hole dia. ø 0.7 mm Solder pin length 1.75 mm Protection category according IP 00 to IEC 60529 black Color

# **Dimensional drawing**

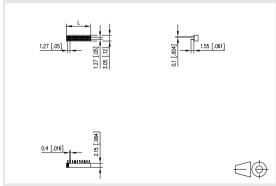


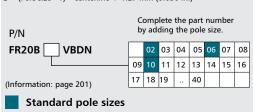
L = (Pole size - 1) \* centerline + 1.65 mm (0.065 in.)



Standard pole sizes

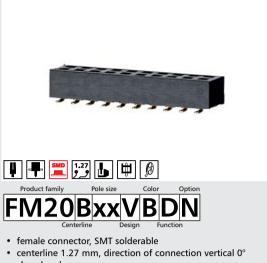
# **Dimensional drawing**











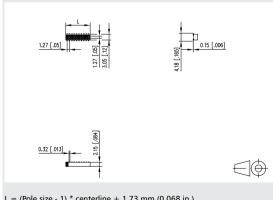
- closed ends
- color black
- Tape & Reel packaging
- dual rows

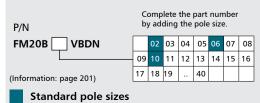
Rated current Solder pin dimension Protection category according to IEC 60529 Color

1 A 0.32 x 0.1 mm

IP 00 black

# **Dimensional drawing**













FR20 CXXHBNN

Centerline Design Function

- female connector, THR solderable
- centerline 2.00 mm, direction of connection 90°
- closed ends
- · color black
- Tape & Reel packaging
- single row

Rated current 1 A
Solder pin dimension 0.5 x 0.2 mm
Recommended pc board hole dia. Ø 0.70 mm
Solder pin length 3.0 mm
Protection category according

to IEC 60529 IP 00 Color black ----





- female connector, THR solderable
- centerline 2.00 mm, direction of connection 90°
- · closed ends
- color black
- Tape & Reel packaging
- single row

Color

Rated current 1 A

Solder pin dimension 0.5 x 0.2 mm

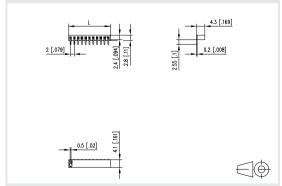
Recommended pc board hole dia. Ø 0.70 mm

Solder pin length 3.0 mm

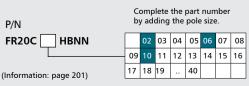
Protection category according to IEC 60529 IP 00

black

# Dimensional drawing

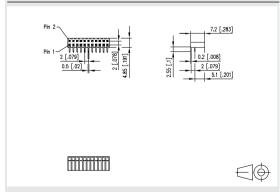


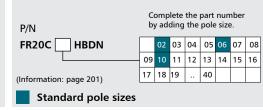
L = (Pole size - 1) \* centerline + 2.0 mm (0.079 in.)



Standard pole sizes

# **Dimensional drawing**











- female connector, THR solderable
- centerline 2.00 mm, direction of connection vertical 0°

black

- · closed ends
- · color black
- Tape & Reel packaging
- single row

Color

Rated current 1 A

Solder pin dimension 0.5 x 0.2 mm

Recommended pc board hole dia. Ø 0.7 mm

Solder pin length 2.20 mm

Protection category according to IEC 60529 IP 00





- female connector, THR solderable
- centerline 2.00 mm, direction of connection vertical  $0^{\circ}$

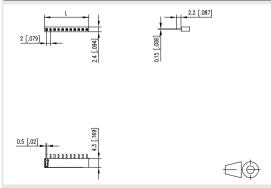
black

- · closed ends
- color black
- Tape & Reel packaging
- dual rows

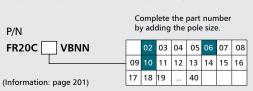
Color

Rated current 1 A
Solder pin dimension 0.5 x 0.2 mm
Recommended pc board hole dia. Ø 0.7 mm
Solder pin length 2.20 mm
Protection category according to IEC 60529 IP 00

# Dimensional drawing

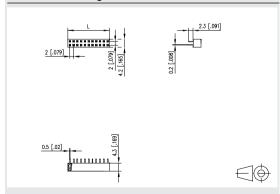


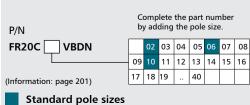
L = (Pole size - 1) \* centerline + 2.0 mm (0.079 in.)



Standard pole sizes

# **Dimensional drawing**











- female connector, SMT solderable
- centerline 2.00 mm, direction of connection vertical 0°
- · closed ends
- · color black
- Tape & Reel packaging
- single row

Color

Rated current
Solder pin dimension
Protection category according
to IEC 60529

1 A 0.5 x 0.2 mm

IP 00 black





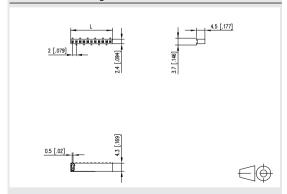


- female connector, SMT solderable
- centerline 2.00 mm, direction of connection vertical 0°
- closed ends
- color black
- Tape & Reel packaging
- dual rows

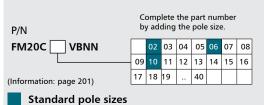
Rated current 1 A
Solder pin dimension 0.5 x 0.2 mm
Protection category according

to IEC 60529 IP 00
Color black

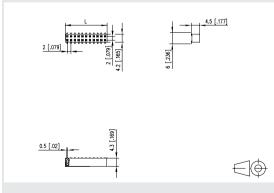
# **Dimensional drawing**

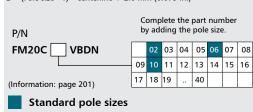


L = (Pole size - 1) \* centerline + 2.0 mm (0.079 in.)



# **Dimensional drawing**











FR202xxHBNN

Centerline Design Function

- · female connector, THR solderable
- centerline 2.54 mm, direction of connection  $90^{\circ}$
- · closed ends
- color black
- single row

Color

Rated current 3 A

Solder pin dimension 0.6 x 0.4 mm

Recommended pc board hole dia. Ø 1.02 mm

Solder pin length 3.00 mm

Protection category according to IEC 60529 IP 00

black

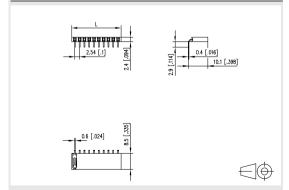
Product family Pole size Color Option

- female connector, THR solderable
- centerline 2.54 mm, direction of connection 90°
- closed ends
- color black
- dual rows

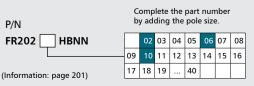
Rated current 3 A
Solder pin dimension 0.6 x 0.4 mm
Recommended pc board hole dia. Ø 1.02 mm
Solder pin length 3.00 mm
Protection category according

to IEC 60529 IP 00
Color black

# **Dimensional drawing**

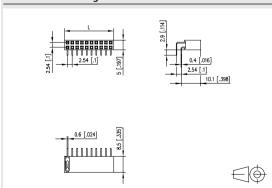


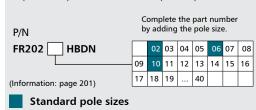
L = (Pole size - 1) \* centerline + 3.04 mm (0.120 in.)



Standard pole sizes

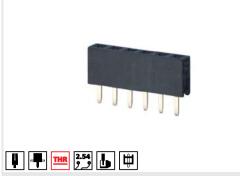
# **Dimensional drawing**











FR202xxVBNN0002

- female connector, THR solderable
- centerline 2.54 mm, direction of connection vertical 0°
- closed ends
- color black
- single row

Rated current 3

Solder pin dimension 0.7 x 0.25 mm Recommended pc board hole dia. Ø 1.02 mm Solder pin length 2.80 mm

Protection category according to IEC 60529 IP 00 Color black





FR202 xxVBDN0002

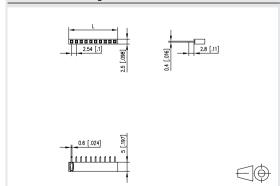
- female connector, THR solderable
- centerline 2.54 mm, direction of connection vertical 0°
- closed ends
- color black
- dual rows

Rated current 3 A
Solder pin dimension 0.6 x 0.4 mm
Recommended pc board hole dia. Ø 1.02 mm
Solder pin length 2.80 mm

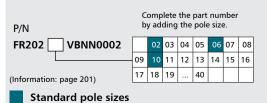
Protection category according

to IEC 60529 IP 00
Color black

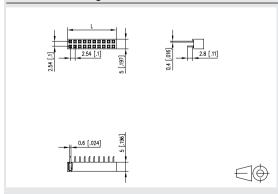
# **Dimensional drawing**

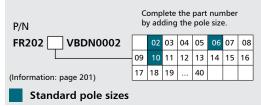


L = (Pole size - 1) \* centerline + 2.94 mm (0.116 in.)



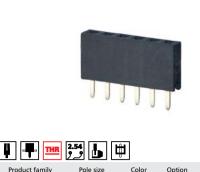
# **Dimensional drawing**











FR202 XXV BNN
Centerline Design Function

- female connector, THR solderable
- centerline 2.54 mm, direction of connection vertical 0°
- · closed ends
- color black
- single row

Rated current 3 /

Solder pin dimension 0.7 x 0.25 mm
Recommended pc board hole dia. Ø 1.02 mm
Solder pin length 3.00 mm
Protection category according to

IP 00 Color black





FR202xxVBDN

Centerline Design Function

- female connector, THR solderable
- centerline 2.54 mm, direction of connection vertical  $0^{\circ}$
- · closed ends
- color black
- dual rows

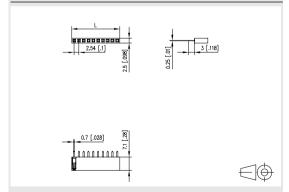
Rated current 3 A

Solder pin dimension 0.7 x 0.25 mm Recommended pc board hole dia. Ø 1.02 mm Solder pin length 3.00 mm

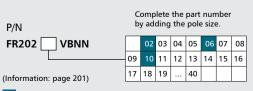
Protection category according to

IEC 60529 IP 00 Color black

# **Dimensional drawing**

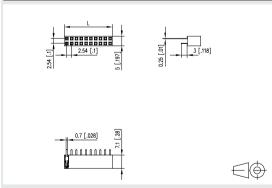


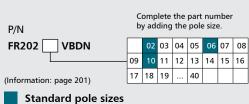
L = (Pole size - 1) \* centerline + 3.04 mm (0.120 in.)



Standard pole sizes

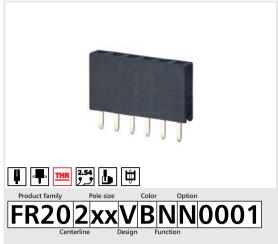
# **Dimensional drawing**











- female connector, THR solderable
- centerline 2.54 mm, direction of connection vertical 0°
- · closed ends
- color black
- single row

Rated current 3 A
Solder pin dimension 0.6 x 0.4 mm
Recommended pc board hole dia. Ø 1.02 mm
Solder pin length 3.00 mm

Solder pin length Protection category according to IEC 60529

to IEC 60529 IP 00
Color black

Product family Pole size Color Option

FR202xxVBDN0001

Centerline Design Function

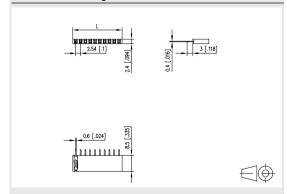
- female connector, THR solderable
- centerline 2.54 mm, direction of connection vertical 0°
- closed ends
- color black
- dual rows

Rated current 3 A
Solder pin dimension 0.6 x 0.4 mm
Recommended pc board hole dia. Ø 1.02 mm
Solder pin length 3.00 mm

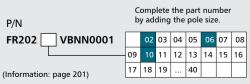
Protection category according

to IEC 60529 IP 00
Color black

# **Dimensional drawing**

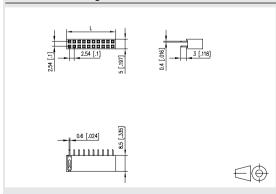


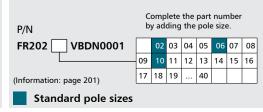
L = (Pole size - 1) \* centerline + 3.04 mm (0.120 in.)



Standard pole sizes

# **Dimensional drawing**







**Board-to-board connectors** 







- · female connector, SMT solderable
- centerline 2.54 mm, direction of connection vertical 0°
- · closed ends
- color black
- single row

Rated current Solder pin dimension Protection category according

to IEC 60529 Color

IP 00 black

0.65 x 0.25 mm





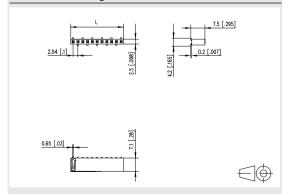
- female connector, SMT solderable
- centerline 2.54 mm, direction of connection vertical 0°
- closed ends
- color black
- Tape & Reel packaging
- dual rows

3 A Rated current Solder pin dimension 0.5 x 0.25 mm

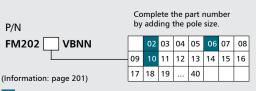
Protection category according to IEC 60529 black Color

IP 00

# **Dimensional drawing**

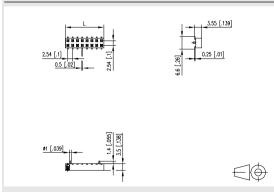


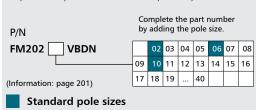
L = (Pole size - 1) \* centerline + 2.54 mm (0.100 in.)



Standard pole sizes

# **Dimensional drawing**



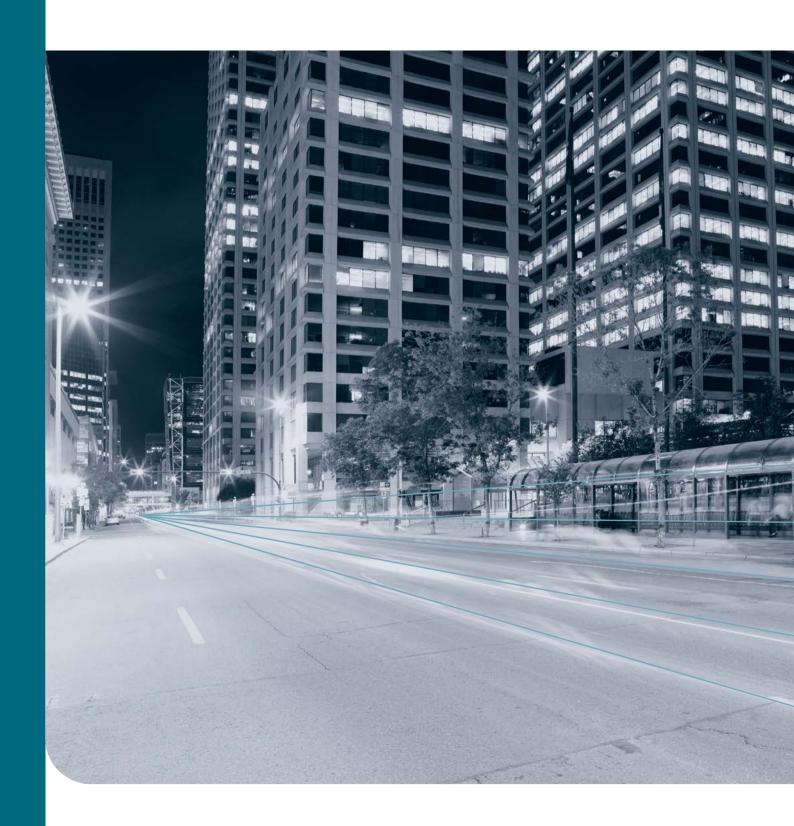






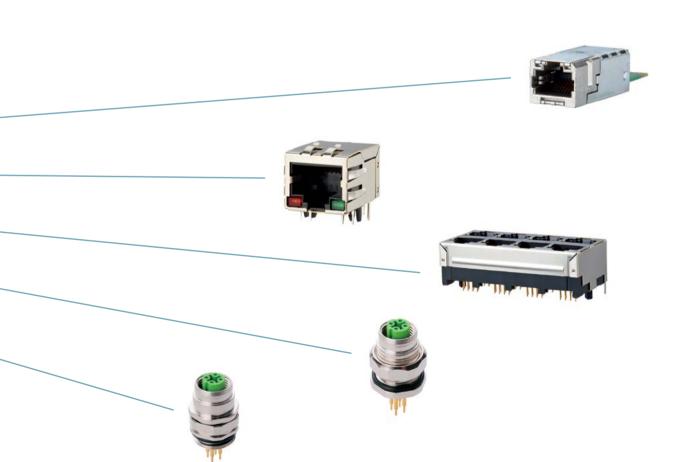
	PC board jacks RJ/USB	
1	Overview PCB jacks/plugs	226
2	Overview PCB jacks/plugs RJ/USB	228
3	RJ45 modules for device connection	231
4	RJ45 unshielded	235
5	RJ45 shielded	240
6	RJ45 LED unshielded	249
7	RJ45 LED shielded	253
8	RJ45 plugs	258
9	RJ12	259
10	RJ11	264
11	USB	266

# PC board jacks/plugs



# PC board jacks/plugs

Reliable, simple, quick and solution-oriented – this range of products of PCB jacks and plugs does not only offer decisive advantages for your industrial applications but also for their planning, assembly and their daily use. You benefit from a consistently high-quality transmission section from the PC board of a device via the cabling of the system, to the IT landscape and this irrespective of whether M12, RJ45, RJ12, USB or other products are used.

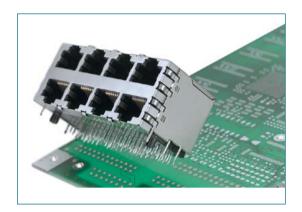


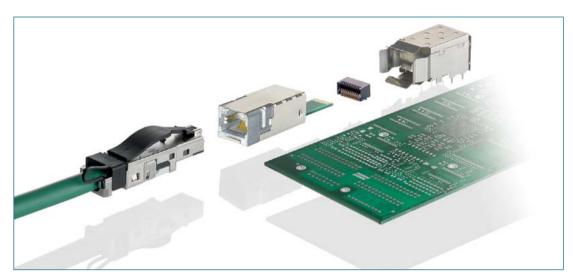
# **U** Contact

# PC board RJ/USB

# **Description**

After its start in the telephone technology of the 1980s, the RJ45 gradually took over data technology and today is an established part of data centers, building technology and wiring, as well as everyday devices. Billionfold approved it is used for most of the data communication interfaces – independent of the application and particular manufacturers or interest groups. We offer you the ideal solution for a whole range of requirements and applications.





# **Direct PC board connection**

For direct PCB connections we offer a system consisting of RJ45 modules with integrated magnetics, PCB edge connector and metal shield. This combination makes it possible for the device designer to position the PCB edge connectors on the circuit board and thus no longer send the device jacks through the soldering process but to locate them in the assembly process. Through vertical and horizontal versions of the edge connector, the device can be connected as required.

In combination with a fixing flange in the housing, there is no longer any mechanical load on the fine fixations of the circuit board. For the fixation to the housing and the IP67 protection we offer various flanges.

Through the integrated magnetics in the RJ45 module, it is no longer necessary to place them discreetly on the circuit board, thus remaining flexible in the use of the circuit board. Only the RJ45 module is exchanged for other transfer rates.

### PC board jacks with magnetics

Through the integrated magnetics in the RJ45 jack, a separate structure of the transformers is no longer necessary, thus saving construction space for additional components.

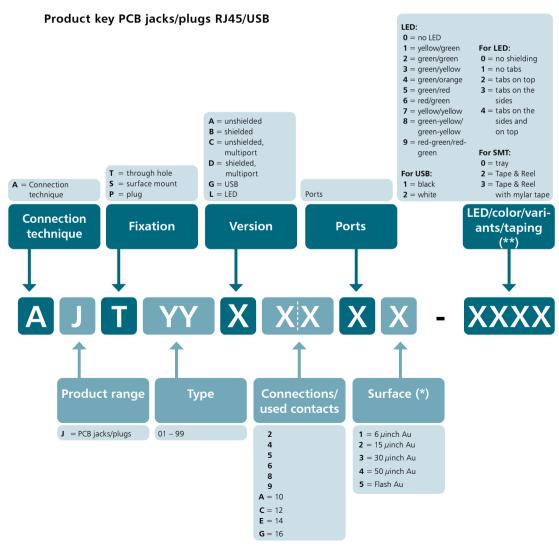
The RJ45 jacks with magnetics are available in the variants 10/100 Mbit or 1 Gbit and thus meet the most common applications at the present time.

# **U** Contact

# PCB jacks/plugs

In addition to connection solutions with integrated magnetics, we offer you a number of special RJ45 PCB jacks in different designs and for various processing options – developed in order to guarantee contact reliability in operation without any special housing. This resulted in a product program that offers ideal solutions to all those seeking a reliable and flexible connection technology for their device design. And when a RJ45 plug is required on the circuit board, we have a solution ready for you.





<sup>\*</sup> As an option also a surface with 50  $\mu$ inch Au is available for some variants. \*\* Information only required when one of the listed options is demanded.





# Modul RJ45 Magnetics 10/100 MBit

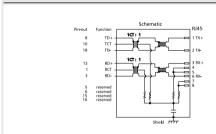
- RJ45 module with integrated magnetics
- 10/100 Mbit
- shielded
- IP67 protection by using flanges V1, V4
- direct connection to pc board by using the Metal Shield and PCB Edge Connector
- not suitable for PoE / PoE plus

# Modul RJ45 Magnetics 1 GBit

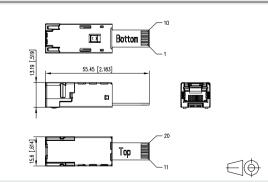
- RJ45 module with integrated magnetics
- 1 GBit
- shielded
- IP67 protection by using flanges V1, V4
- direct connection to pc board by using the Metal Shield and PCB Edge Connector

Variants: Power over Ethernet (PoE)
MJT5214111 not suitable for PoE / PoE plus
MJT5214211 suitable for PoE / PoE plus

### Circuit diagram

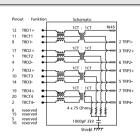


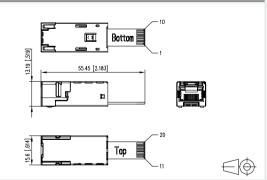
# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
MJT5213111	metallike	neutral	10/100 MBit	4250184125150

### Circuit diagram





P/N	Color	Feature 1	Feature 2	EAN
MJT5214111	metallike	neutral	1 GBit	4250184125136
MJT5214211	metallike	neutral	1 GBit PoE	4250184125129



# RJ45 modules for device connection | shielded





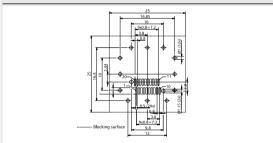
# **PCB Edge Connector vertical**

- PCB edge connector
- direct connection to Module RJ45 Magnetics & Module SFP Tranceiver LC-D
- vertical mounting
- SMT solderable
- packing tape & reel

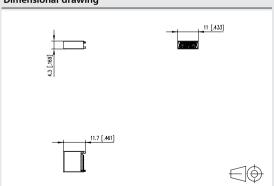
# **PCB Edge Connector horizontal**

- PCB edge connector
- direct connection to Module RJ45 Magnetics
- horizontal mounting
- SMT solderable
- packing tape & reel

### **Drill pattern**

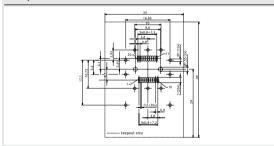


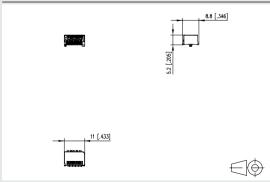
# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
MRS1100011- 0G24	metallike	vertical		4250184125105

### **Drill pattern**





P/N	Color	Feature 1	Feature 2	EAN
MRS2100011- 0G24	black	horizontal		4250184125372









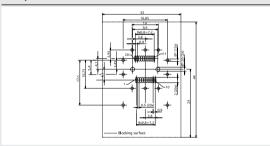
# **PCB Edge Connector horizontal for SFP**

- PCB edge connector
- direct connection to Module SFP Tranceiver LC-D
- · horizontal mounting
- SMT solderable
- packing tape & reel

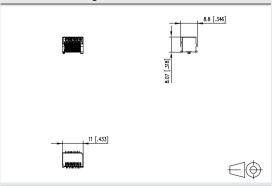
# **Metal Shield vertical**

- metal shield
  - shield for RJ45 Module Magnetics and SFP Tranceiver LC-D
- vertical mounting
- solderable
- packing in tray

### Drill pattern

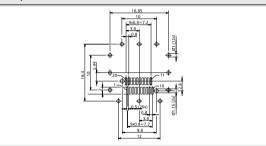


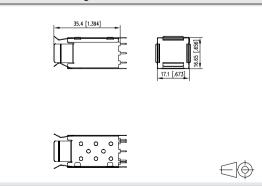
# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
MRS2000011- 0G24	black	horizontal		4250184125082

### Drill pattern





P/N	Color	Feature 1	Feature 2	EAN
MZT1110014	metallike	vertical		4250184125341



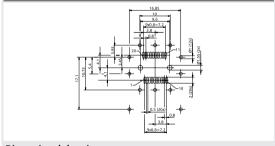


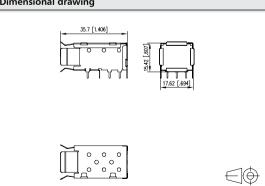


# **Metal Shield horizontal**

- metal shield
- shield for RJ45 Module Magnetics and SFP Tranceiver LC-D
- horizontal mounting
- solderablepacking in tray

# Drill pattern





P/N	Color	Feature 1	Feature 2	EAN
MZT2110014	metallike	horizontal		4250184125402









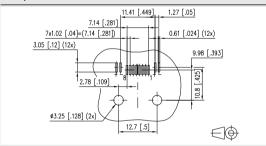
# AJS59L

- PC board jack, RJ45, unshielded
- single port, side entry, with 8 contacts
- solderable (SMT), color black
- L x W x H 14.99 mm x 15.75 mm x 12.76 mm
- LED, green/yellow, top latch
- Varianten: 6 $\mu$ " Au, 30  $\mu$ " Au, Tape & Reel

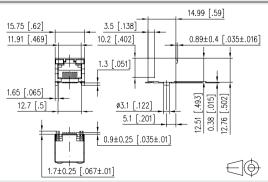
# AJT60A

- PC board jack, RJ45, unshielded
- single port, side entry, with 8 contacts
- solderable (THR), color black
- L x W x H 15.1 mm x 15.2 mm x 19.3 mm
- top latch

### **Drill pattern**

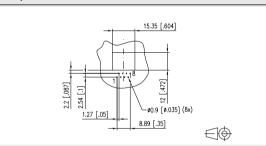


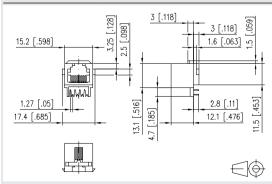
# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJS59L8811-0302	black	Tape & Reel	6 μ" Au	4250184172116
AJS59L8813-0302	black	Tape & Reel	30 μ" Au	4250184172123

### Drill pattern





P/N	Color	Feature 1	Feature 2	EAN
AJT60A8815	black			4250184179757



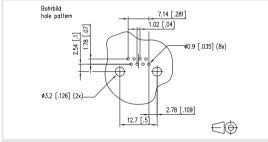


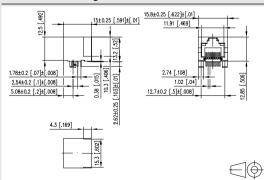


# AJT65A

- PC board jack, RJ45, unshielded
- single port, side entry, with 8 contacts
- solderable (THR), color black
- L x W x H 15 mm x 15.8 mm x 12.85 mm
- top latch

# Drill pattern





P/N	Color	Feature 1	Feature 2	EAN
AJT65A8812-0002	black	15 μ" Au	13 Zoll reel	4250184162292







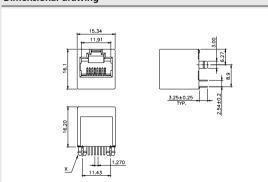


# AJT84A

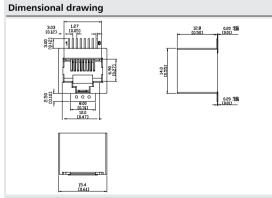
- PC board jack, RJ45, unshielded
- single port, top entry, with 8 contacts
- solderable, color black
- L x W x H 16.10 mm x 15.34 mm x 16.20 mm
- top latch
- Variants: 30 μ" Au, 50 μ" Au

# AJS56A

- PC board jack, RJ45, unshielded
- single port, top entry, with 8 contacts
- solderable (SMT), color black
- L x W x H 14 mm x 14.6 mm x 12.8 mm
- bottom latch



P/N	Color	Feature 1	Feature 2	EAN
AJT84A8813	black	30 <i>μ</i> " Au		4250184162964



P/N	Color	Feature 1	Feature 2	EAN
AJS56A8811	black	6 μ" Au		4250184163039

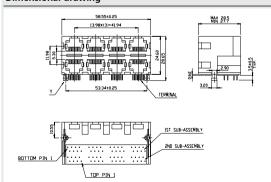






# AJT42C

- PC board jack, RJ45, unshielded
- multi port 2x4, side entry, with 8 contacts
- solderable, color black
- L x W x H 27.70 mm x 58.55 mm x 28.65 mm



P/N	Color	Feature 1	Feature 2	EAN
AJT42C8883	black	30 μ" Au	2x4 port	4250184163084
AJT42C8821	black	6 μ" Au	2x1 port	4250184173052

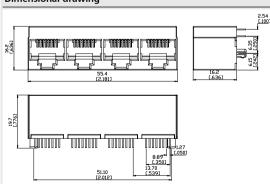






# AJT47C

- PC board jack, RJ45, unshielded
- multi port 1x4, top entry, with 8 contacts
- solderable, color metal
- L x W x H 16.2 mm x 55.4 mm x 16.2 mm
- bottom latch



P/N	Color	Feature 1	Feature 2	EAN
AJT47C8841	metallike	6 μ" Au		4250184163091







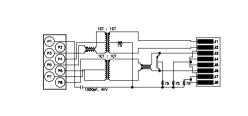
# AJT92B8813 | Magnetics 10/100 MBit

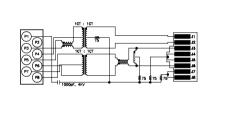
- PC board jack, RJ45, shielded
- single port, side entry, with 8 contacts
- solderable
- L x W x H 25.4 mm x 16.13 mm x 13.79 mm
- top latch
- 50 μ" Au

# AJT92BC813 | Magnetics 1 GBit

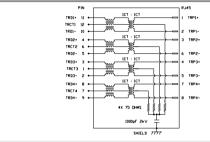
- PC board jack, RJ45, shielded
- single port, side entry, with 8 contacts
- solderable
- L x W x H 30.48 mm x 16.79 mm x 13.61 mm
- top latch
- 50 μ" Au

# Drill pattern

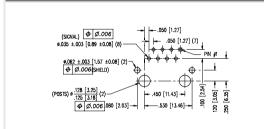




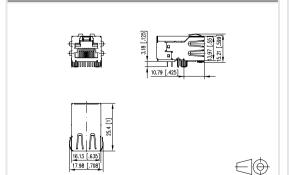
# **Drill pattern**



### **Drill pattern**

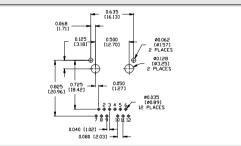


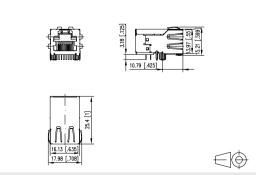
**Dimensional drawing** 



P/N	Color	Feature 1	Feature 2	
AJT92B8813		horizontal	10/100 MBit	

### **Drill pattern**





P/N	Color	Feature 1	Feature 2	
AJT92BC813		horizontal	1 GBit	









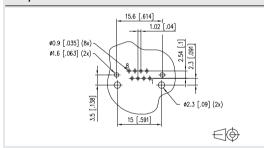
# AJT65B

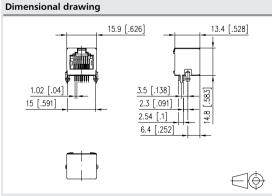
- PC board jack, RJ45, shielded
- single port, side entry, with 8 contacts
- solderable, color metal
- L x W x H 21.2 mm x 15.9 mm x 13.6 mm
- bottom latch
- Variants: 30 μ" Au, 50 μ" Au

# AJT94B

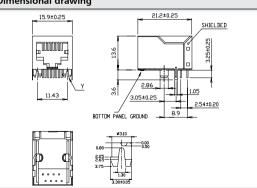
- PC board jack, RJ45, shielded
- single port, side entry, with 8 contacts
- solderable, color metal
- L x W x H 13.4 mm x 15.9 mm x 14.8 mm
- top latch
- 30 μ" Au

### **Drill pattern**





P/N	Color	Feature 1	Feature 2	EAN
AJT94B8813	metallike	30 μ" Au		4250184174592



P/N	Color	Feature 1	Feature 2	EAN
AJT65B8813	metallike	30 μ" Au		4250184163114
AJT65B8814	metallike	50 μ" Au		4250184163121







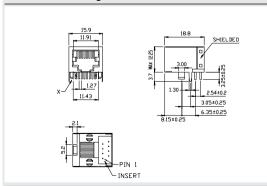
# AJT75B, 10P/8C

- PC board jack, RJ45, shielded
- single port, side entry, with 8 contacts
- solderable, color metal
- L x W x H 18.80 mm x 15.90 mm x 12.25 mm
- bottom latch

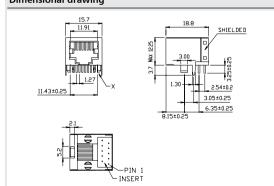
# AJT75B, 10P/10C

- PC board jack, RJ45, shielded
- single port, side entry, with 10 contacts
- solderable, color metal
- L x W x H 18.80 mm x 15.70 mm x 12.25 mm
- bottom latch

# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT75BA813	metallike	10P/8C	30 μ" Au	4250184163138



P/N	Color	Feature 1	Feature 2	EAN
AJT75BAA13	metallike	10P/10C	30 μ" Au	4250184163152









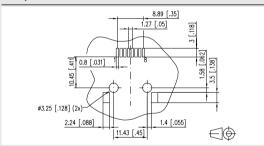
# AJS58B

- PC board jack, RJ45, shielded
- single port, side entry, with 8 contacts
- solderable (SMT), color metal
- L x W x H 18.60 mm x 15.60 mm x 11.80 mm
- bottom latch

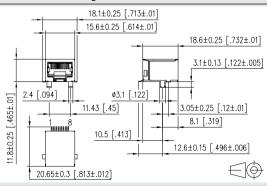
### AJS59L

- PC board jack, RJ45, shielded
- single port, side entry, with 8 contacts
- solderable (SMT), color black
- L x W x H 14.99 mm x 15.75 mm x 12.76 mm
- LED, green/yellow, top latch
- Varianten: 6μ" Au, 30 μ" Au, Tape & Reel

### Drill pattern

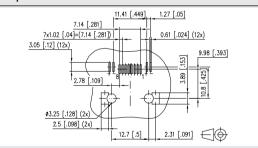


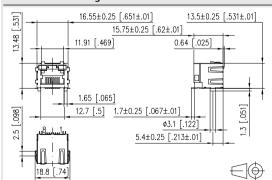
# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJS58BA811	metallike	6 μ" Au		4250184163169

### Drill pattern





P/N	Color	Feature 1	Feature 2	EAN
AJS59L8811-0312	black	Tape & Reel	6 μ" Au	4250184172093
AJS59L8813-0312	black	Tape & Reel	30 μ" Au	4250184172109









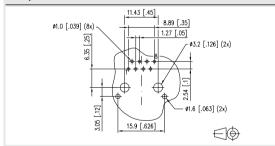
# AJT93B

- PC board jack, RJ45, shielded
- single port, top entry, with 8 contacts
- solderable (THR), color metal
- L x W x H 16.7 mm x 16.2 mm x 16.4 mm
- bottom latch

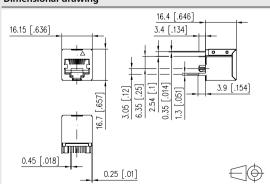
# AJT74B

- PC board jack, RJ45, shielded
- single port, top entry, with 8 contacts
- solderable, color metal
- L x W x H 16.70 mm x 16.15 mm x 16.50 mm
- top latch
- Variants: 30 μ" Au, 50 μ" Au

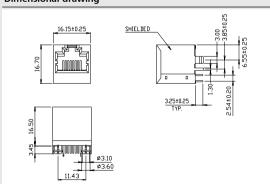
### **Drill pattern**



# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT93B8813	metallike	30 μ Au		4250184169437



P/N	Color	Feature 1	Feature 2	EAN
AJT74B8813	metallike	·		4250184163176
AJT74B8814	metallike	50 μ" Au		4250184163183



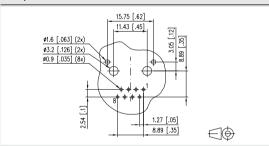


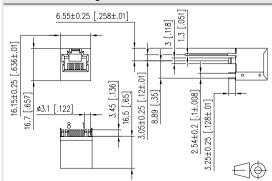


# AJT01B

- PC board jack, RJ45, shielded
- single port, top entry, with 8 contacts
- solderable (THR), color metal
- L x W x H 16.70 mm x 16.15 mm x 16.50 mm
- top latch
- Variants: 30 μ" Au, 50 μ" Au

### **Drill pattern**





P/N	Color	Feature 1	Feature 2	EAN
AJT01B8813	metallike	30 μ" Au		4250184174080









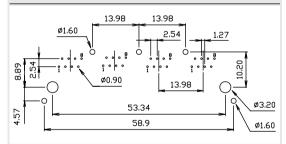
# AJT47D

- PC board jack, RJ45, shielded
- multi port 1x4, side entry, with 8 contacts
- solderable, color metal
- L x W x H 59.10 mm x 21.35 mm x 13.80 mm
- bottom latch

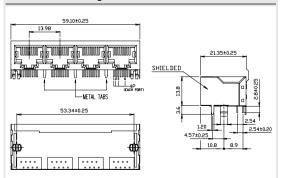
# AJT93D

- PC board jack, RJ45, shielded
- multi port 1x2, side entry, with 8 contacts
- solderable, color metal
- L x W x H 31.1 mm x 21.2 mm x 13.5 mm
- bottom latch
- 30 μ" Au

### Drill pattern

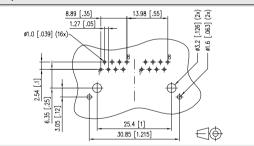


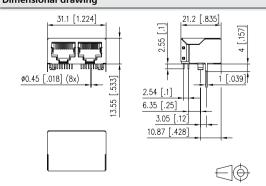
# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT47D8843-003	metallike	30 μ" Au		4250184163190

### Drill pattern





P/N	Color	Feature 1	Feature 2	EAN
AJT93DA823	metallike	30 μ" Au		4250184169444







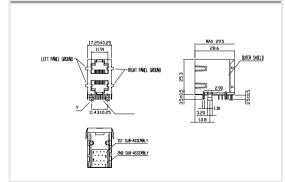
# AJT48D

- PC board jack, RJ45, shielded
- multi port 2x1, side entry, with 8 contacts
- solderable, color metal
- L x W x H 28.60 mm x 17.25 mm x 25.30 mm

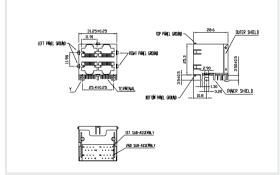
# AJT49D

- PC board jack, RJ45, shielded
- multi port 2x2, side entry, with 8 contacts
- solderable, color metal
- L x W x H 28.60 mm x 31.25 mm x 25.30 mm
- • Variants: 4 port 30  $\mu$ " Au, 8 port 30  $\mu$ " Au, 8 port 50  $\mu$ " Au, 16 port 30  $\mu$ " Au

# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT48D8824	metallike			4250184163206



P/N	Color	Feature 1	Feature 2	EAN
AJT49D8843	metallike	4 port	30 μ" Au	4250184163213
AJT49D8883	metallike	8 port	30 μ" Au	4250184163220
AJT49D8884	metallike	8 port	50 μ" Au	4250184163237
AJT49D88G3	metallike	16 port	30 μ" Au	4250184163244







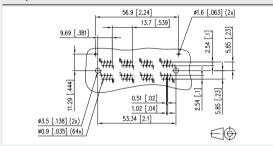
# AJT46D

- PC board jack, RJ45, shielded
- multi port 2x4, top entry, with 8 contacts
- solderable, color metal
- L x W x H 27.4 mm x 57.2 mm x 16.5 mm

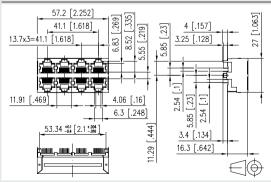
# AJT52D

- PC board jack, RJ45, shielded
- multi port 1x4, top entry, with 8 contacts
- solderable, color metal
- L x W x H 16.70 mm x 55.90 mm x 16.40 mm
- bottom latch

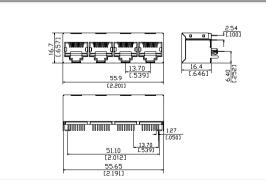
### **Drill pattern**



# **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT46D8883	metallike	30 μ" Au		4250184163251



P/N	Color	Feature 1	Feature 2	EAN
AJT52D8843	metallike	30 μ" Au		4250184163268







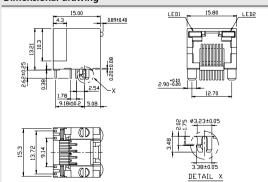


# AJT18L

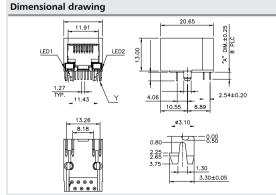
- PC board jack, RJ45, unshielded
- single port, side entry, with 8 contacts
- solderable, color black
- L x W x H 15.00 mm x 15.80 mm x 13.21 mm
- LED, yellow/green, top latch
- Variants: LED yellow/green, green/green, green/yellow

### AJT31L

- PC board jack, RJ45, unshielded
- single port, side entry, with 8 contacts
- solderable, color black
- L x W x H 20.65 mm x 15.24 mm x 13 mm
- LED, yellow/green, bottom latch



P/N	Color	Feature 1	Feature 2	EAN	
AJT18L8813-010	black	LED yellow/ green	30 μ" Au	4250184163275	
AJT18L8813-020	black	LED green/ green	30 μ" Au	4250184163282	
AJT18L8813-030	black	LED green/ yellow	30 μ" Au	4250184163299	



P/N	Color	Feature 1	Feature 2	EAN
AJT31L8811-01	black	6 μ" Au		4250184163305

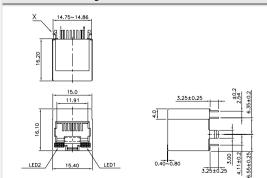






# AJT40L

- PC board jack, RJ45, unshielded
- single port, top entry, with 8 contacts
- solderable, color black
- L x W x H 16.10 mm x 15.00 mm x 16.20 mm
- LED, green/yellow, bottom latch



P/N	Color	Feature 1	Feature 2	EAN
AJT40L8813-030	black	30 μ" Au		4250184163312

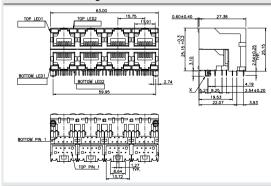






#### AJT36L

- PC board jack, RJ45, unshielded
- multi port 2x4, side entry, with 8 contacts
- solderable, color black
- L x W x H 27.38 mm x 63.00 mm x 25.15 mm
- LED, red/green



P/N	Color	Feature 1	Feature 2	EAN
AJT36L8883-090	black	30 μ" Au		4250184163329

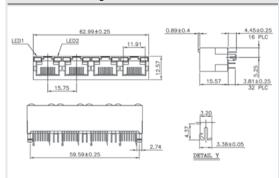






#### AJT32L

- PC board jack, RJ45, unshielded
- multi port 1x4, top entry, with 8 contacts
- solderable, color black
- L x W x H 12.57 mm x 62.99 mm x 15.57 mm
- LED, yellow/green, top latch



P/N	Color	Feature 1	Feature 2	EAN
AJT32L8841-010	black	6 μ" Au		4250184163350







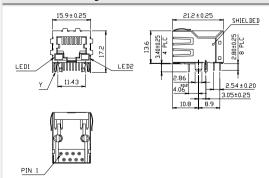
#### AJT33L

- PC board jack, RJ45, shielded
- single port, side entry, with 8 contacts
- solderable, color metal
- L x W x H 21.20 mm x 15.90 mm x 13.60 mm
- LED, red/green, bottom latch
- · Variants: LED yellow/green, red/green

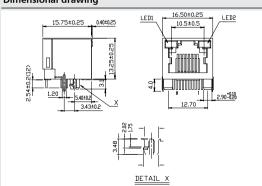
#### AJT34L

- PC board jack, RJ45, shielded
- single port, side entry, with 8 contacts
- solderable, color metal
- L x W x H 15.75 mm x 16.51 mm x 13.55 mm
- LED, yellow/green, top latch
- Variants: LED yellow/green, green/yellow each top & side tabs and no tabs and 30  $\mu^{\text{m}}$  Au

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT33L8813-014		LED yellow/ green	30 μ" Au	4250184163374
AJT33L8813-064	metallike	LED red/green	30 μ" Au	4250184163381



P/N	Color	Feature 1	Feature 2	EAN
AJT34L8813-011	metallike	LED yellow/ green	no tabs	4250184163404
AJT34L8813-014	metallike	LED yellow/ green	top & side tabs	4250184163411
AJT34L8813-034	metallike	LED green/ yellow	top & side tabs	4250184163428
AJT34L8814-031	metallike	LED green/ yellow	no tabs	4250184163435









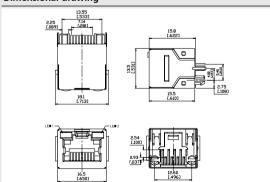
#### AJT38L

- PC board jack, RJ45, shielded
- single port, top entry, with 8 contacts
- solderable, color metal
- L x W x H 13.5 mm x 16.5 mm x 15.8 mm
- LED, yellow/green, top latch

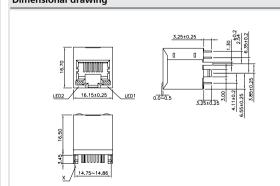
#### AJT39L

- PC board jack, RJ45, shielded
- single port, top entry, with 8 contacts
- solderable, color metal
- L x W x H 16.70 mm x 16.15 mm x 16.50 mm
- LED, yellow/green, bottom latch
- Variants: LED yellow/green, green/green, green/yellow each 30  $\mu$ " Au

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT38L8813-011	metallike	30 μ" Au		4250184163466
		L		



P/N	Color	Feature 1	Feature 2	EAN
AJT39L8813-021	metallike	LED green/ green	top & side tabs	4250184163473
AJT39L8813-031	metallike	LED green/ yellow	top & side tabs	4250184163480









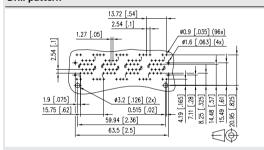
#### AJT35L

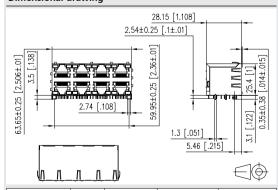
- PC board jack, RJ45, shielded
- multi port 1x2, side entry, with 8 contacts
- solderable, color metal
- L x W x H 15.75 mm x 32.26 mm x 13.30 mm
- LED, green/yellow, top latch

#### AJT37L

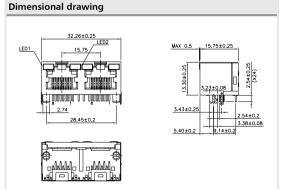
- PC board jack, RJ45, shielded
- multi port 2x4, side entry, with 8 contacts
- solderable, color metal
- L x W x H 28.15 mm x 63.65 mm x 25.40 mm
- LED, red/green, top and bottom

#### Drill pattern





P/N	Color	Feature 1	Feature 2	EAN
AJT37L8884-094	metallike	50 μ" Au		4250184163503



P/N	Color	Feature 1	Feature 2	EAN
AJT35L8824-031	metallike	50 μ" Au		4250184163497









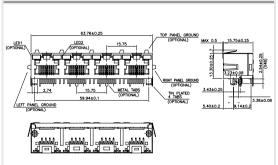
#### AJT41L

- PC board jack, RJ45, shielded
- multi port 1x4, side entry, with 8 contacts
- solderable, color metal
- L x W x H 15.75 mm x 63.76 mm x 13.3 mm
- LED, yellow/green, top latch

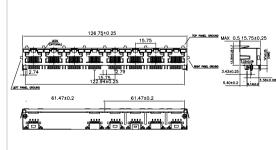
#### AJT43L

- PC board jack, RJ45, shielded
- multi port 1x8, side entry, with 8 contacts
- solderable, color metal
- L x W x H 15.75 mm x 126.7 mm x 13.3 mm
- LED, yellow/green, top latch

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT41L8841-011	metallike	6 μ" Au		4250184163510
				l



P/N	Color	Feature 1	Feature 2	EAN
AJT43L8881-011	metallike	6 μ" Au		4250184163527

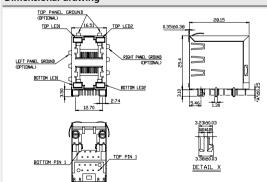






#### AJT44L

- PC board jack, RJ45, shielded
- multi port 2x1, side entry, with 8 contacts
- solderable, color metal
- L x W x H 28.15 mm x 16.51 mm x 25.4 mm
- LED, yellow/green



P/N	Color	Feature 1	Feature 2	EAN
AJT44L8821-014	metallike	6 μ" Au		4250184163534
			l	



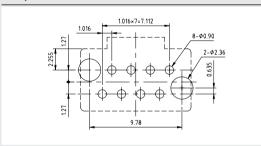


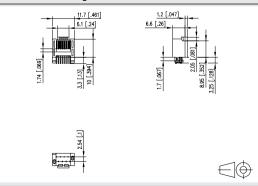


#### AJP92A

- PC board plug, RJ45, unshielded
  single port, top entry, with 8 contacts
  solderable
- L x W x H 6.6 mm x 11.7 mm x 11 mm

#### Drill pattern





P/N	Color	Feature 1	Feature 2	
AJP92A8813				









#### AJT85A

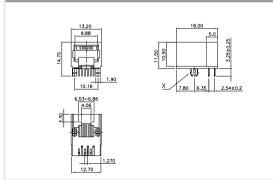
- PC board jack, RJ12, unshielded
- single port, side entry, with 6 contacts
- solderable, color black
- L x W x H 18.00 mm x 13.20 mm x 11.50 mm
- bottom latch
- Variants: 30 μ" Au, 50 μ" Au



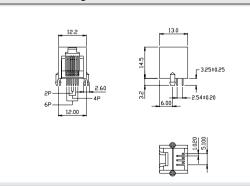
#### AJT87A

- PC board jack, RJ12, unshielded
- single port, side entry, with 6 contacts
- solderable, color black
- L x W x H 15 mm x 14.2 mm x 14.35 mm
- top latch
- Variants: black inlay, gray inlay

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT85A6613	black	30 μ" Au		4250184163541



P/N	Color	Feature 1	Feature 2	EAN
AJT87A6612	black	inlay black		4250184163565
AJT87A6611-041	black	inlay gray	6 μ" Au	4250184163572

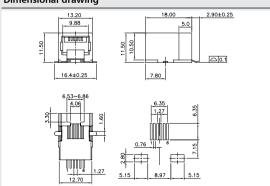






#### AJS57A

- PC board jack, RJ12, unshielded
  single port, side entry, with 6 contacts
  solderable (SMT), color black
- L x W x H 18 mm x 13.2 mm x 11.5 mm
   bottom latch



P/N	Color	Feature 1	Feature 2	EAN
AJS57A6613	black	30 μ" Au		4250184163602







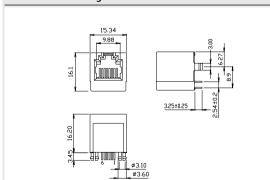
#### AJT84A

- PC board jack, RJ12, unshielded
- single port, top entry, with 6 contacts
- solderable, color black
- L x W x H 16.10 mm x 15.34 mm x 16.20 mm
- top latch

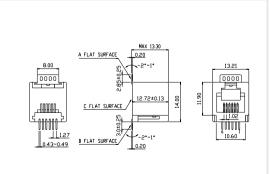
#### AJS55A

- PC board jack, RJ12, unshielded
- single port, top entry, with 6 contacts
- solderable (SMT), color black
- L x W x H 11.90 mm x 13.21 mm x 14.00 mm
- top latch
- Variants: 6 μ" Au, 30 μ" Au

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT84A6613	black	30 μ" Au		4250184163558



P/N	Color	Feature 1	Feature 2	EAN
AJS55A6611	black	6 μ" Au		4250184163619
AJS55A6613	black	30 μ" Au		4250184163626

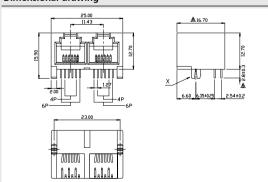






#### AJT46C

- PC board jack, RJ12, unshielded
  multi port 1x2, side entry, with 6 contacts
- solderable, color black
- L x W x H 16.70 mm x 25.00 mm x 12.70 mm top latch



P/N	Color	Feature 1	Feature 2	EAN
AJT46C6623	black	30 μ" Au		4250184163633







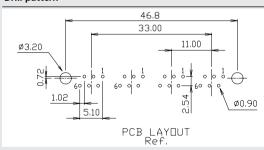
#### AJT43C 1x2 Port

- PC board jack, RJ12, unshielded
- multi port 1x2, top entry, with 4 contacts
- solderable, color black
- L x W x H 16.00 mm x 28.00 mm x 15.40 mm
- top latch

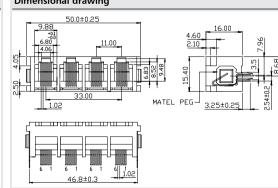
#### AJT43C 1x4 Port

- PC board jack, RJ12, unshielded
- multi port 1x4, top entry, with 6 contacts
- solderable, color black
- L x W x H 16.00 mm x 50.00 mm x 15.40 mm
   top latch

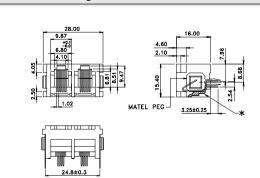
#### **Drill pattern**



#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT43C6642-001	black	4 port	6P/6C	4250184163688



P/N	Color	Feature 1	Feature 2	EAN
AJT43C6421	black	2 port	6P/4C	4250184163657

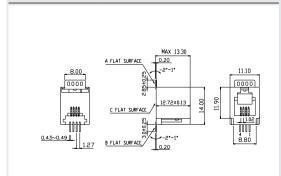






#### AJS55A

- PC board jack, RJ11, unshielded
  single port, top entry, with 4 contacts
  solderable (SMT), color black
- L x W x H 14.00 mm x 11.10 mm x 12.72 mm
   top latch



P/N	Color	Feature 1	Feature 2	EAN
AJS55A4411	black	6 μ" Au		4250184163695

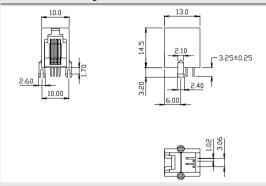






#### AJT87A

- PC board jack, RJ11, unshielded
- single port, side entry, with 4 contacts
  solderable, color black
- L x W x H 13.00 mm x 10.00 mm x 14.50 mm top latch



P/N	Color	Feature 1	Feature 2	EAN
AJT87A4411	black	6 μ" Au		4250184163718









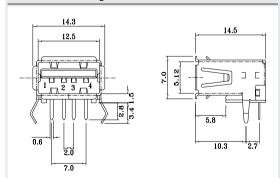
#### AJT21G

- PC board jack, USB A, shielded
- single port, side entry, with 4 contacts
- solderable, color metal
- L x W x H 14.50 mm x 14.30 mm x 7.00 mm

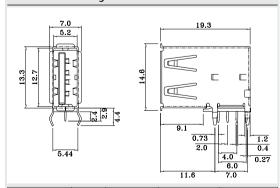
#### AJT24G

- PC board jack, USB A, shielded
- single port, side entry, with 4 contacts
- solderable, color metal
- L x W x H 19.30 mm x 7.00 mm x 13.30 mm

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT21G4413-001	metallike	30 μ" Au		4250184163756



P/N	Color	Feature 1	Feature 2	EAN
AJT24G4413-001	metallike	30 μ" Au		4250184163817
	1	1		









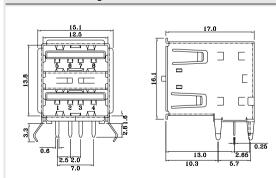
#### AJT25G

- PC board jack, USB A, shielded
- multi port 2x1, side entry, with 4 contacts
- solderable, color metal
- L x W x H 17.00 mm x 15.10 mm x 13.80 mm

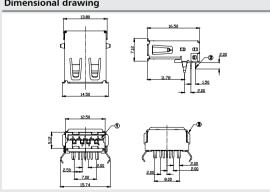
#### AJT33G

- PC board jack, USB A, shielded
- single port, side entry, 9
- solderable, color metal
- L x W x H 16.5 mm x 13.9 mm x 7.12 mm

#### **Dimensional drawing**



Color	Feature 1	Feature 2	EAN
metallike	30 μ" Au		4250184163824
		Color Feature 1 metallike 30 μ° Au	



P/N	Color	Feature 1	Feature 2	EAN
AJT33G9913-001	metallike	30 μ" Au		4250184163831
		l	L	

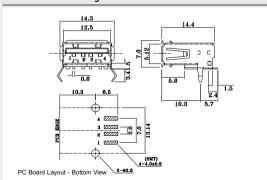






#### AJS05G

- PC board jack, USB A, shielded
  single port, side entry, with 4 contacts
- solderable (SMT), color metal
- L x W x H 14.4 mm x 14.3 mm x 7.0 mm



P/N	Color	Feature 1	Feature 2	EAN
AJS05G4413-001	metallike			4250184163848
AJS05G4413-005	metallike			4250184163855









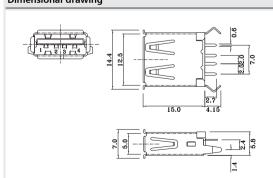
## AJT27G

- PC board jack, USB A, shielded
- multi port 2x1, top entry, with 4 contacts
  solderable, color metal
- L x W x H 13.80 mm x 14.80 mm x 16.30 mm

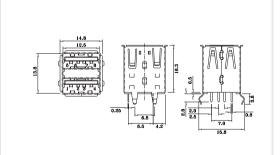
#### AJT20G

- PC board jack, USB A, shielded
- single port, top entry, with 4 contacts
  solderable, color metal
- L x W x H 15.00 mm x 14.40 mm x 7.00 mm

### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT20G4413-001	metallike	30 μ" Au		4250184163886



P/N	Color	Feature 1	Feature 2	EAN
AJT27G4423-001	metallike	30 μ" Au		4250184163893







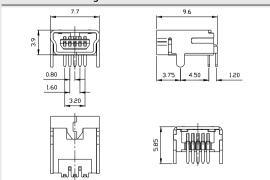
#### AJT29G

- PC board jack, Mini USB B, shielded
- single port, side entry, with 5 contacts
- solderable, color metal
- L x W x H 9.60 mm x 7.70 mm x 3.90 mm

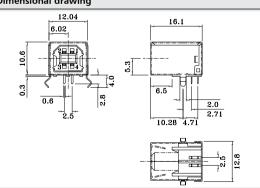
#### AJT30G

- PC board jack, USB B, shielded
- single port, side entry, with 4 contacts
- solderable, color metal
- L x W x H 16.10 mm x 12.04 mm x 10.60 mm

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJT29G5513-001	metallike	30 μ" Au		4250184163909



P/N	Color	Feature 1	Feature 2	EAN
AJT30G4413-001	metallike	30 μ" Au		4250184163916
AJT30G4413-002	metallike	30 μ" Au		4250184163923









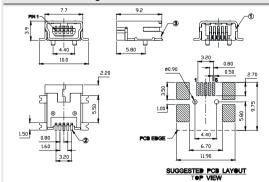
#### AJS08G

- PC board jack, Mini USB B, shielded
- single port, side entry, with 5 contacts
- solderable (SMT), color metal
- L x W x H 9.20 mm x 7.70 mm x 3.90 mm

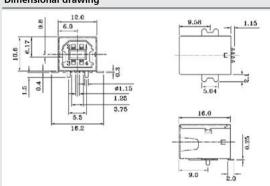
#### AJS09G

- PC board jack, Mini USB B, shielded
- single port, side entry, with 4 contacts
- solderable (SMT)
- L x W x H 16.00 mm x 12 mm x 10.6 mm

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJS08G5513-001	metallike	30 μ" Au		4250184163947
		l		



P/N	Color	Feature 1	Feature 2	EAN
AJS09G4413-001		30 μ" Au		4250184163985







#### AJS10G

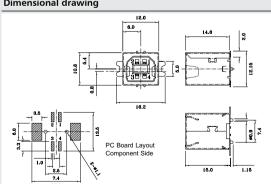
- PC board jack, USB B, shielded
- single port, top entry, with 4 contacts
- solderable (SMT), color metal
- L x W x H 14.60 mm x 12.00 mm x 10.80 mm



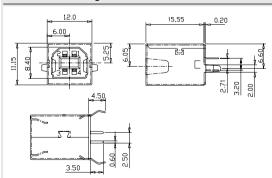
#### AJT14G

- PC board jack, USB B, shielded
- single port, top entry, with 4 contacts
  solderable, color metal
- L x W x H 11.15 mm x 12.00 mm x 15.55 mm

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
AJS10G4413-001	metallike	Tray Packing		4250184164005
AJS10G4413-301	metallike	Tape & Reel	Mylar Tape	4250184164012



P/N	Color	Feature 1	Feature 2	EAN
AJT14G4413-001	metallike	30 μ" Au		4250184164029





## PC board jacks Ethernet M12

1	Overview Female connectors	
	Ethernet M12	274
2	Ethernet M12	277



# **U** Contact

# Ethernet M12 PC board jacks

## **Description**

The Ethernet M12 plug is an industrial plug that is used for the field level and for industrial Ethernet. It is a round plug connection with metric thread that has been developed in several versions and codings for different protection classes.

For applications in the electrically sensitive environment, fully shielded EMV-compliant versions are available. Here, the contact carrier is surrounded by a metallic shield sleeve that is connected firstly to the cable screen and secondly to the locking screw. This ensures that the shield connection is guided to the device housing via the plug connector. In addition, another feature is the high mechanical rigidity and resistance to mechanical influences and vibrations.

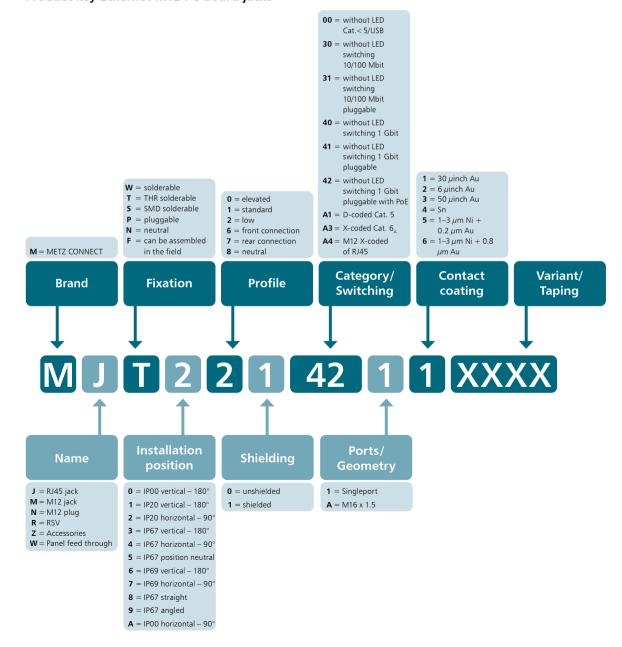




The plug connectors of this product series with a metric 12 mm thread are used today around the world in the area of automation and sensor technology. They are used for the transmission of data and signals.

Please note the new, structured and user-friendly product key for plug connectors. The new system describes the products according to their characteristics and thus creates transparency in the ordering and logistics processes.

#### Product key Ethernet M12 PC board jacks



Notes







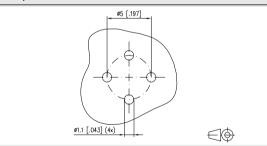
#### MMW360A1A1

- Ethernet M12 female connector for PC boards
- 4-pole, D-coded as per IEC 61076-02-101
- solderable
- · front mounting
- green PC board insert for THR

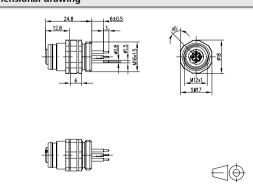
#### MMW370A1A1

- Ethernet M12 female connector for PC boards
- 4-pole, D-coded as per IEC 61076-02-101
- solderable
- · through hole mounting
- green PC board insert for THR

#### **Drill pattern**

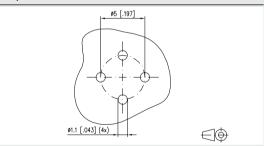


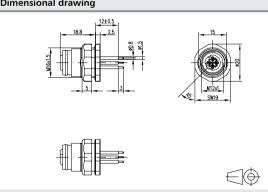
#### Dimensional drawing



P/N	Color	Feature 1	Feature 2	EAN
MMW360A1A1	metallike	D-coded		4250184143116

#### **Drill pattern**





P/N	Color	Feature 1	Feature 2	EAN
MMW370A1A1	metallike	D-coded		4250184142584



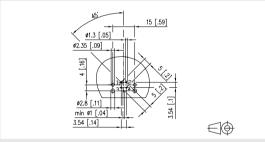


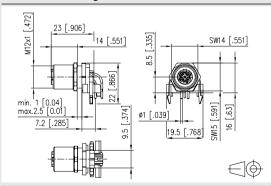


#### MMT471A115

- Ethernet M12 jack for PC boards
- 4-pole, D-coded as per IEC 61076-02-101
- angled 90°
- solderable THR
- side entry
- protection degree IP67 in mated condition
- Variants: suitable for a wall thickness up to 2.5 mm, up to 4 mm, up to 5 mm

#### **Drill pattern**





P/N	Color	Feature 1	Feature 2	EAN
MMT471A115	metallike	D-coded 90°	< 2.5 mm	4250184187967
MMT471A115- 0001	metallike	D-coded 90°	< 4 mm	4250184187974
MMT471A115- 0002	metallike	D-coded 90°	< 5 mm	4250184187981









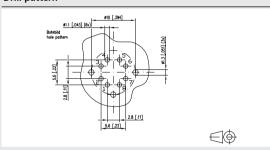
#### MMT361A315

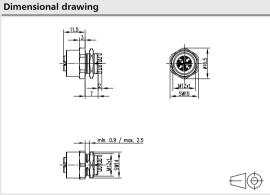
- Ethernet M12 jack Cat.6, for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable, THR
- top entry
- green PC board insert

#### MMT371A3B5

- Ethernet M12 jack Cat.6, for PC boards
  - 8-pole, X-coded as per IEC 61076-02-109
  - rear wall mounting
  - for 10 GBit Ethernet (IEEE 802.3an)
- solderable, THR
- protection degree IP67 in mated condition

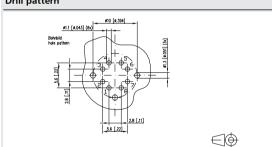
#### **Drill pattern**

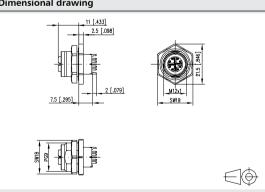




P/N	Color	Feature 1	Feature 2	EAN
MMT361A315	metallike	X-coded		4250184154891
MMT361A315- 0001	metallike	X-coded	in individual parts	4250184154907

#### **Drill pattern**





P/N	Color	Feature 1	Feature 2	EAN
MMT371A3B5	metallike	X-coded		4250184158493
MMT371A3B5- 0001	metallike	X-coded	in individual parts	4250184158509









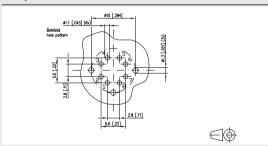
#### MMT060A315

- Ethernet M12 jack insert for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable (THR)
- top entry
- variants: green or black PC board insert

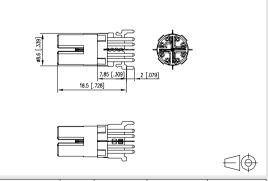
#### MMT471A315

- Ethernet M12 jack  $Cat.6_A$  for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- angled 90°
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable THR
- side entry
- protection degree IP67 in mated condition
- variants: suitable for a wall thickness up to 2.5 mm, up to 4 mm, up to 5 mm

#### **Drill pattern**

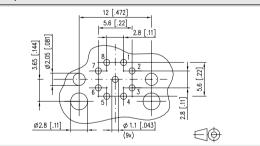


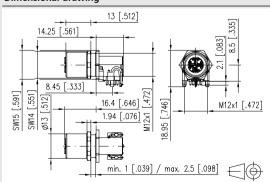
#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	EAN
MMT060A315	metallike			4250184155256
MMT060A315- 0001	black	X-coded		4250184158479

#### Drill pattern





P/N	Color	Feature 1	Feature 2	EAN
MMT471A315	metallike	X-coded 90°	< 2.5 mm	4250184169475
MMT471A315- 0001	metallike	X-coded 90°	< 4 mm	4250184169482
MMT471A315- 0002	metallike	X-coded 90°	< 5 mm	4250184169499









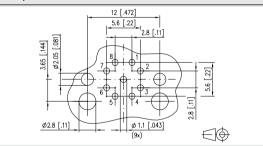
#### MMT471A315 in individual parts

- Ethernet M12 jack  $Cat.6_A$  for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- angled 90°
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable THR
- side entry
- protection degree IP67 in mated condition
- in individual parts
- variants: suitable for a wall thickness up to 2.5 mm, up to 4 mm, up to 5 mm

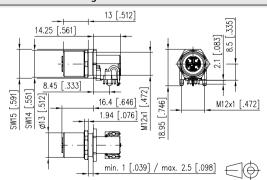
#### **MMTA70A315**

- Ethernet M12 jack insert for PC boards  $90^{\circ}$ 
  - 8-pole, X-coded as per IEC 61076-02-109
  - for 10 GBit Ethernet (IEEE 802.3an)
- solderable (THR)
- side entry
- green PC board insert

#### Drill pattern

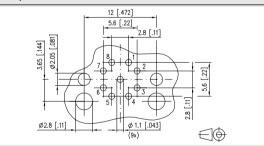


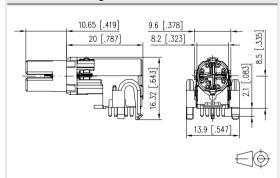
#### Dimensional drawing



P/N	Color	Feature 1	Feature 2	EAN
MMT471A315- 0003	metallike	X-coded 90°	< 2.5 mm, in individual parts	4250184169505
MMT471A315- 0004	metallike	X-coded 90°	< 4 mm, in individual parts	4250184169512
MMT471A315- 0005	metallike	X-coded 90°	< 5 mm, in individual parts	4250184169529

#### Drill pattern





P/N	Color	Feature 1	Feature 2	EAN
MMTA70A315	metallike	X-coded	90°	4250184169598





Notes







#### Accessories

1	for terminal blocks	285
2	for pin headers	295
3	Screwdriver	299





## **Symbol Definition**

#### **Guiding icons**



Spring clamp terminal block



IDC terminal block



Screw type terminal block



Pin header



Female connector



Ethernet M12



solderable



pluggable



Centerline



Wire entry 90°



Diagonal wire entry



Wire entry 0°



Lift system



Wire protector



modular



Pin header for vertical mounting



Shrouded pin header for vertical mounting



Pin header with open ends for vertical mounting



Pin header with closed ends for vertical mounting



Pin header for horizontal mounting



Shrouded pin header for horizontal mounting



Pin header with open ends for horizontal mounting



Pin header with closed ends for horizontal mounting



designed for THR



designed for SMT



Tape & Reel possible





## Mounting flange 710084 | right is matching accessory

Page RP025xxIBWC (Type 007) 108 123 RP029xxIBWC (Type 007) RP025xxHBWC (Type 107) 109 RP025xxMBWC (Type 108) 109

## Mounting flange 710085 | left is matching accessory

RP025xxIBWC (Type 007)	108
RP029xxIBWC (Type 007)	123
RP025xxHBWC (Type 107)	109
RP025xxMBWC (Type 108)	109







### Mounting flange 710084 | right

- The latching flanges are attached to the side of the terminal block and secured to the printed circuit board with a quarter turn of the screw
- · Latching flanges for left and right side are necessary for mounting.
- Variants: 710084 right, 710085 left

black Color



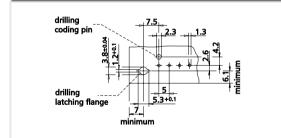


#### Mounting flange 710085 | left

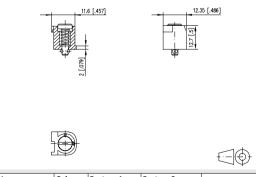
- The latching flanges are attached to the side of the terminal block and secured to the printed circuit board with a quarter turn of the screw
- · Latching flanges for left and right side are necessary for mounting.
- Variants: 710084 right, 710085 left

black Color

#### **Cut-out**

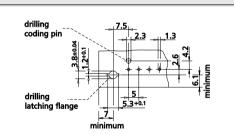


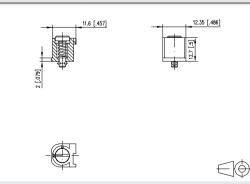
#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
710084	black			

#### **Cut-out**





P/N	Color	Feature 1	Feature 2	
710085	black			





118

P

# Mounting flange 750150 | right is matching accessory for

RP025xxIBWU (Type 077) 108

RP026xxIBWU (Type 079)

# Mounting flange 750151 | left is matching accessory for

 RP025xxIBWU (Type 077)
 Page 108

 RP026xxIBWU (Type 079)
 118





### Mounting flange 750150 | right

- The mounting flanges are attached to the side of the terminal block and secured to the printed circuit board by the tightening of the screw
- Mounting flanges for left and right side are necessary for mounting.
- Variants: 750150 right, 750151 left

Color black



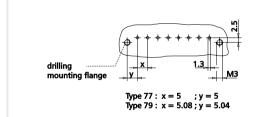


#### Mounting flange 750151 | left

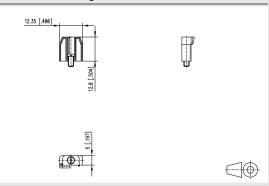
- The mounting flanges are attached to the side of the terminal block and secured to the printed circuit board by the tightening of the screw
- Mounting flanges for left and right side are necessary for mounting.
- Variants: 750150 right, 750151 left

Color black

#### **Cut-out**

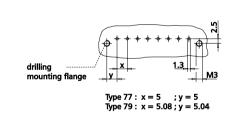


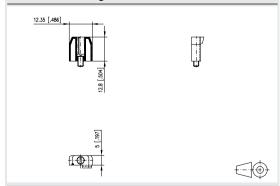
#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
750150	black			

#### **Cut-out**





P/N	Color	Feature 1	Feature 2	
750151	black			





## Mounting flange 750313 | right is matching accessory

Page RP025xxIBLC (Type 137) 110 110 RP025xxHBLC (Type 207)

#### Mounting flange 750314 | left is matching accessory for

RP025xxiBLC (Type 137)	110
RP025xxHBLC (Type 207)	110







## Mounting flange 750313 | right

- The mounting flanges are attached to the side of the terminal block and secured to the printed circuit board by the tightening of the screw
- · Mounting flanges for left and right side are necessary for mounting.
- Variants: 750313 right, 750314 left

black Color



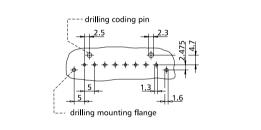


## Mounting flange 750314 | left

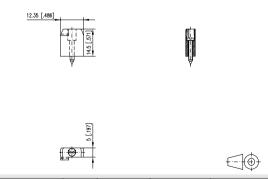
- The mounting flanges are attached to the side of the terminal block and secured to the printed circuit board by the tightening of the screw
- · Mounting flanges for left and right side are necessary for mounting.
- Variants: 750313 right, 750314 left

black Color

#### **Cut-out**

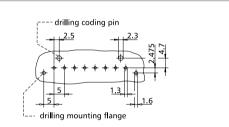


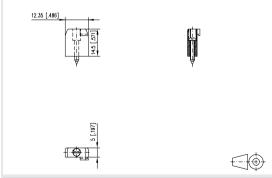
#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
750313	black			

#### **Cut-out**





P/N	Color	Feature 1	Feature 2	
750314	black			





Mounting flange 720158 | lock depth 1 mm is matching accessory for

Page RP023xxHBNF (Type 165) 100 RP023xxHBWC (Type 166) 100

Mounting flange 720158 | lock depth 1.5 mm is matching accessory for

**RP023xxHBNF (Type 165)** 100 **RP023xxHBWC (Type 166)** 100





# Mounting flange 720158 | lock depth 1 mm

- The mounting flange is inserted into the groove in the side
  of the terminal block and secured to the printed circuit
  board by being press fit into the hole in the printed circuit
  board
- Mounting flanges for left and right side are necessary for mounting.
- Variants: 720158-01-2 black for pc board 1.00 mm / 0.039 inches, 720158-02-2 black for pc board 1.50 mm / 0.059 inches

Color black



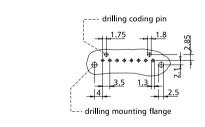


# Mounting flange 720158 | lock depth 1.5 mm

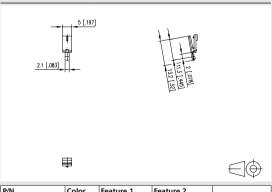
- The mounting flange is inserted into the groove in the side
  of the terminal block and secured to the printed circuit
  board by being press fit into the hole in the printed circuit
  board
- Mounting flanges for left and right side are necessary for mounting.
- Variants: 720158-01-2 black for pc board 1.00 mm / 0.039 inches, 720158-02-2 black for pc board 1.50 mm / 0.059 inches

Color black

#### **Cut-out**

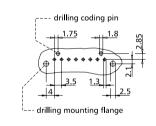


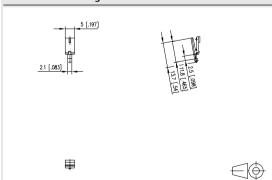
#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
720158-01-2	black	Lock depth: 1 mm		

#### Cut-out





P/N	Color	Feature 1	Feature 2	
720158-02-2	black	Lock depth: 1.5 mm		





Mounting flange 720036 | lock depth 1 mm is matching accessory for

Page SP025xxHDNC (ASP025)

Mounting flange 720036 | lock depth 1.5 mm is matching accessory for Page

SP025xxHDNC( ASP025)







# Mounting flange 720036 | lock depth

- The mounting flange is inserted into the mounting hole in the side of the terminal block and secured to the printed circuit board by being press fit into the hole in the printed circuit board
- · Mounting flanges for left and right side are necessary for mounting.
- Variants: 720036-01-4 gray for pc board 1.0 mm / 0.039 inches, 720036-02-2 black for pc board 1.50 mm/ 0.059 inches

Color gray



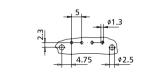


# Mounting flange 720036 | lock depth

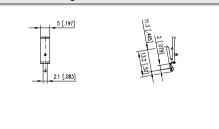
- The mounting flange is inserted into the mounting hole in the side of the terminal block and secured to the printed circuit board by being press fit into the hole in the printed circuit board
- Mounting flanges for left and right side are necessary for mounting.
- Variants: 720036-01-4 gray for pc board 1.0 mm / 0.039 inches, 720036-02-2 black for pc board 1.50 mm / 0.059 inches

Color black

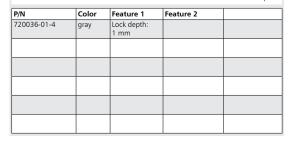
#### **Cut-out**



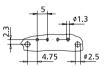
#### **Dimensional drawing**



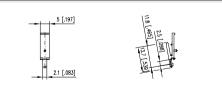




#### **Cut-out**



#### **Dimensional drawing**





 $\bigcirc$ 



P/N	Color	Feature 1	Feature 2	
720036-02-2	black	Lock depth: 1.5 mm		





# Coding pin 710121 | short is matching accessory for

RP025xxIBWC (Type 007)	Page 108
RP029xxIBWC (Type 007)	123
RP025xxIBWU (Type 077)	108
RP026xxIBWU (Type 079)	118
RP025xxHBWC (Type 107)	109
RP025xxMBWC (Type 108)	109

## Coding pin 710122 | long is matching accessory for

RP025xxIBWC (Type 007)	Page 108
RP029xxIBWC (Type 007)	123
RP025xxIBWU (Type 077)	108
RP026xxIBWU (Type 079)	118
RP025xxHBWC (Type 107)	109
RP025xxMBWC (Type 108)	109





#### Coding pin 710121 | short

- The coding pin is inserted into the groove in the back of the terminal block
- This method of coding does not result in any circuit loss
- Variants: 710121-2 short, 710122-2 long

Color	black



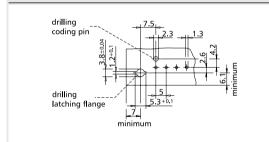


## Coding pin 710122 | long

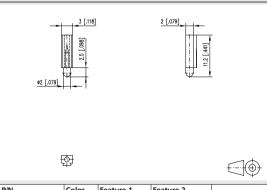
- The coding pin is inserted into the groove in the back of the terminal block
- This method of coding does not result in any circuit loss
- Variants: 710121-2 short, 710122-2 long

Color black

#### **Cut-out**

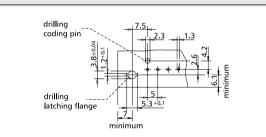


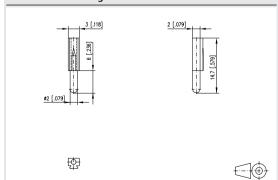
#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
710121-2	black			

#### **Cut-out**





P/N	Color	Feature 1	Feature 2	
710122-2	black			





#### Coding pin 720159 | short is matching accessory for

RP023xxHBNF (Type 165) 100 RP023xxHBWC (Type 166) 100 110 RP025xxHBLC (Type 207)

#### Coding pin 720159 | long is matching accessory for

	Pag
RP023xxHBNF (Type 165)	100
RP023xxHBWC (Type 166)	100
RP025xxHBLC (Type 207)	110









## Coding pin 720159 | short

- The coding pin is inserted into the groove in the back of the terminal block
- This method of coding does not result in any circuit loss
- Variants: 720159-01-2 short, 720159-02-2 long

Color black



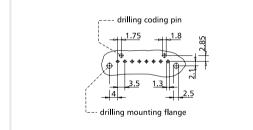


#### Coding pin 720159 | long

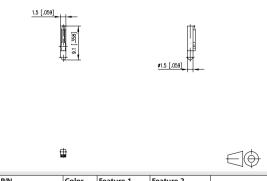
- The coding pin is inserted into the groove in the back of the terminal block
- This method of coding does not result in any circuit loss
- Variants: 720159-01-2 short, 720159-02-2 long

Color black

#### **Cut-out**

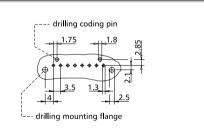


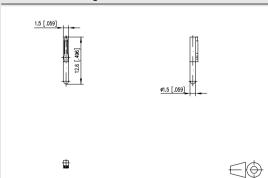
#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
720159-01-2	black			

#### **Cut-out**





P/N	Color	Feature 1	Feature 2	
720159-02-2	black			





Coding pin 720161 | short is matching accessory for

RP025xxIBLC (Type 137)

Coding pin 720161 | long is matching accessory for

RP025xxIBLC (Type 137) 110







## Coding pin 720161 | short

- The coding pin is inserted into the groove in the back of the terminal block
- This method of coding does not result in any circuit loss
- Variants: 720161-01-2 short, 720161-02-2 long

Color black



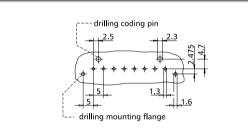


#### Coding pin 720161 | long

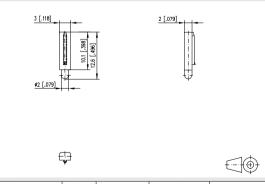
- The coding pin is inserted into the groove in the back of the terminal block
- This method of coding does not result in any circuit loss
- Variants: 720161-01-2 short, 720161-02-2 long

Color black

#### **Cut-out**

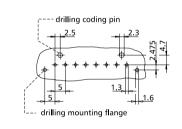


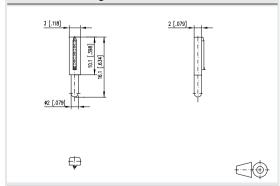
#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
720161-01-2	black			

#### **Cut-out**





P/N	Color	Feature 1	Feature 2	
720161-02-2	black			



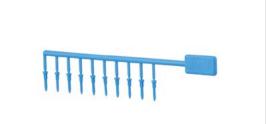


# Coding pin 716846 | blue is matching accessory for

RP025xxIBWC (Type 007)	108
RP029xxIBWC (Type 007)	123
RP025xxIBWU (Type 077)	108
RP026xxIBWU (Type 079)	118
RP025xxHBWC (Type 107)	109
RP025xxMBWC (Type 108)	109
RP025xxIBLC (Type 137)	110

# Coding pin 716906 | orange is matching accessory for

	ray
RP015xxWBWC (Type 009)	112
RP015xxWBLC (Type 049)	113
RP019xxWBLC (Type 049)	123





## Coding pin 716846 | blue

- The coding pin is inserted into the mating area of the female contact (plug-in). The contact pin should be removed from the respective position of the header.
- This method of coding is associated with a circuit loss
- Group of 10 blue coding pins

Color	blu



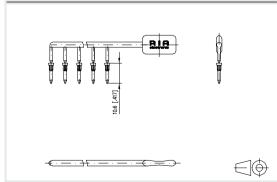


## Coding pin 716906 | orange

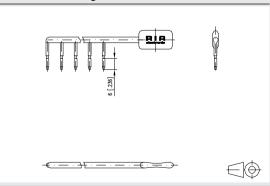
- The coding pin is inserted into the mating area of the female contact (plug-in). The contact pin should be removed from the respective position of the header.
- This method of coding is associated with a circuit loss
- Group of 10 orange coding pins

Color	orang

#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
716846	blue			



P/N	Color	Feature 1	Feature 2	
716906	orange			





Protection against accidental contact 711401 is matching accessory for

Page RT075xxHBLU (Type 092) 81 RT076xxHBLU (Type 093) 88





# Protection against accidental contact 711401

- Cover for the lower circuit range of the Type RT075xxHBLU and RT076xxHBLU
- This provides additional protection against manual contact of the upper circuit line
- Variants: 711401-092-02-2 covers 2-pole, 711401-092-03-2 covers 3-pole

Color black

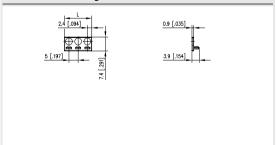


## **Jumper 711047**

• The jumper may be used for all terminal blocks with centerline 5.00 mm / 0.197 inches and 5.08 mm / 0.200 inches

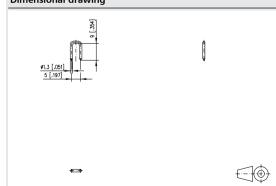
#### **Dimensional drawing**

\*\*\*



P/N	Color	Feature 1	Feature 2	
711401-092-02-2	black	2-pole		
711401-092-03-2	black	3-pole		

#### Dimensional drawing



P/N	Color	Feature 1	Feature 2	
711047				





LED light transmitter | Centerline 3.50 mm is matching accessory for

Page PT093xxHBBN (Type 342) 149 PT093xxHBBF (Type 394) 149

LED light transmitter | Centerline 3.81 mm is matching accessory for

Page
PR044xxHBBN (Type 190) 155
PR044xxHBBF (Type 390) 155





## LED light transmitter | Centerline 3.50 mm

- LED-light transmitter for headers, pluggable
- centerline 3.50 mm / 0.138 inches, height 8.20 mm / 0.323 inches
- 12 poles, dividable

Color clear



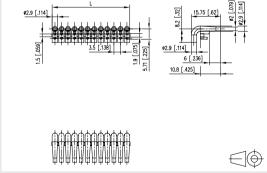


## LED light transmitter | Centerline 3.81 mm

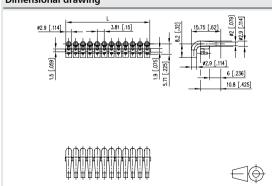
- LED-light transmitter for headers, pluggable
- centerline 3.81 mm / 0.150 inches, height 8.20 mm / 0.323 inches
- 12 poles, dividable

Color clear

## Dimensional drawing



P/N	Color	Feature 1	Feature 2	
700353-01-1216	clear	height 8.2 mm		
700353-02-1216	clear	height 7.4 mm		
700353-03-1216	clear	height 5.7 mm		



P/N	Color	Feature 1	Feature 2	
700333-01-1216	clear	height 8.2 mm		
700333-02-1216	clear	height 7.4 mm		
700333-03-1216	clear	height 5.7 mm		





# Coding pin 720293 | black is matching accessory for

is matering accessory	
	Page
PR043xxHBBN (Type 188)	146
PR043xxVBBN (Type 189)	151
PR044xxHBBN (Type 190)	155
PR044xxVBBN (Type 191)	157
PT093xxHBBN (Type 342)	149
PT093xxVBBN (Type 343)	154
PT094xxHBBN (Type 382)	156
PT094xxVBBN (Type 383)	158
PT094xxHBBF (Type 392)	156
PT094xxVBBF (Type 393)	158
PR044xxHBBF (Type 390)	155
PR044xxVBBF (Type 391)	157
PR043xxHBBF (Type 388)	147
PR043xxVBBF (Type 389)	151
PT093xxHBBF (Type 394)	149

# Coding pin 720243 | orange is matching accessory for

	Page
RP013xxVBWN (Type 169)	105
PT113xxHBBN (Type 182)	150
DT112vv\/DDN /Tupo 102\	15/



## Coding pin 720293 | black

- The coding pin is inserted into the slots provided in the header. The terminal blocks mating these headers show a coding ridge which has to be removed.
- This method of coding does not result in any circuit loss
- Group of 6 black coding pins

Color	black

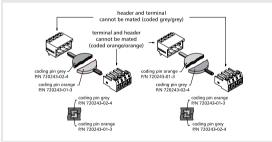


## Coding pin 720243 | orange

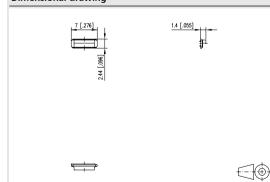
- The coding pins are inserted into the slots provided in the terminal block and respective header
- This method of coding does not result in any circuit loss. Please refer to the drawing below for further details.
- Variants: 720243-01-3 with 6 coding pins orange left; 70243-02-3 with 6 coding pins orange right, 720243-01-4 6 with 6 coding pins gray left, 720243-02-4 with 6 coding pins gray right

Color	orange
-------	--------

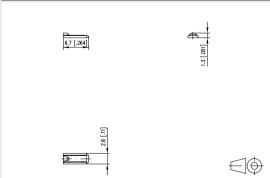
#### Picture



#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
720243-01-3	orange			
720243-02-3	orange			



P/N	Color	Feature 1	Feature 2	
720293-01-2	black			



# CONNECT

#### Coding pin 700024 | white | Pin header is matching accessory for

Page 159 PR065xxHBBN (Type 176) 169 PR065xxVBBN (Type 177) PR066xxHBBN (Type 178) 176 PR066xxVBBN (Type 179) 182 PT116xxVBEC (Type 219) 183 PT11AxxVBEC (Type 219) 193 184 PT116xxVBBN (Type 220) PT11AxxVBBN (Type 220) 194 PT116xxHBEC (Type 229) 177 PT11AxxHBEC (Type 229) 192 PT116xxHBBN (Type 230) 178 192 PT11AxxHBBN (Type 230) 184 PT116xxVBBF (Type 235) PT11AxxVBBF (Type 235) 194 PT116xxHBBF (Type 236) 178 PT118xxVBEC (Type 263) 187 PT118xxVBBC (Type 264) 187 PT118xxHBEC (Type 265) 186 PT118xxHBBC (Type 266) 186 PT115xxVBEC (Type 319) 173 174 PT115xxVBBN (Type 320) 190 PT119xxVBBN (Type 320) PT115xxHBEC (Type 329) 164 PT115xxHBBN (Type 330) 164 PT115xxVBBF (Type 335) 174 191 PT119xxVBBF (Type 335) PT115xxHBBF (Type 336) 165 PT119xxHBBF (Type 336) 189 PR075xxHBEL (Type 337) 160 PR075xxHBER (Type 338) 161 159 PR065xxHBEC (Type 476) PR065xxVBEC (Type 477) 169 PR066xxHBEC (Type 478) 176 182 PR066xxVBEC (Type 479) PR065xxHBBF (Type 396) 160 PR065xxVBBF (Type 397) 170 PR066xxHBBF (Type 398) 181

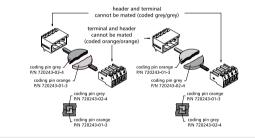


## Coding pin 720243 | gray

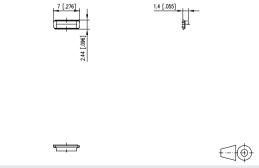
- The coding pins are inserted into the slots provided in the terminal block and respective header
- This method of coding does not result in any circuit loss.
   Please refer to the drawing below for further details.
- Variants: 720243-01-3 with 6 coding pins orange left; 70243-02-3 with 6 coding pins orange right, 720243-01-4 6 with 6 coding pins gray left, 720243-02-4 with 6 coding pins gray right

Color	gray

#### Picture



#### Dimensional drawing



P/N	Color	Feature 1	Feature 2	
720243-01-4	gray			
720243-02-4	gray			

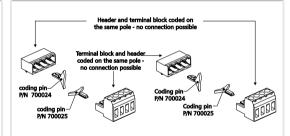


## Coding pin 700024 | white | Pin header

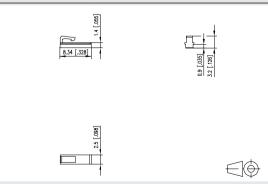
- The coding pins are inserted into the slots provided in the terminal block and respective header. The coding pin with the bridge will be inserted into the header.
- This method of coding does not result in any circuit loss.
   Please refer to the drawing below for further details.
- Group of 6 coding pins

Color	white

#### Picture



#### **Dimensional drawing**



P/N	Color	Feature 1	Feature 2	
700024-01-9	white			



PR066xxVBBF (Type 399)

181



# Coding pin 700025 | white | Terminal block is matching accessory for

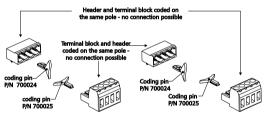
matching accessory for	
RP036xxHBLC (Type 213)	<b>Pag</b> 120
RP03AxxHBLC (Type 213)	127
RP036xxHBLD (Type 214)	120
RP03AxxHBLD (Type 214)	127
RP036xxHBLS (Type 218)	121
RP016xxVBLC (Type 249)	118
RP016xxSBLC (Type 250)	119
RP016xxVBLF (Type 251)	119
RP01AxxVBLF (Type 251)	126
RP018xxVBLC (Type 262)	122
RP035xxHBLC (Type 313)	116
RP039xxHBLC (Type 313)	124
RP035xxHBLD (Type 314)	116
RP085xxVBLC (Type 348)	115
RP015xxVBLC (Type 349)	113
RP019xxVBLC (Type 349)	124
RP015xxSBLC (Type 350)	114
RP015xxVBLF (Type 351)	114
RP019xxVBLF (Type 351)	125
SP043xxVBNN (ASP043)	48
SP044xxVBNN (ASP044)	50
SP045xxVBNC (ASP045)	53
SP046xxVBNC (ASP046)	57
SP049xxVBNC (ASP049)	60
SP04AxxVBNC (ASP04A)	61
SP064xxVGNN (ASP064)	50
SP064xxVGNF (ASP084)	51
SP129xxVBNF (ASP129)	60
RP036xxHBLF (Type 217)	121
RP03AxxHBLF (Type 217)	128
RP03AxxHBLS (Type 218)	128
SP066xxVBNC (ASP066)	57
SP065xxVBNC (ASP065)	54
SP065xxVBNF (ASP085)	55
SP065xxVBPC (ASP065 with finger push-button)	54
SP065xxVBPF (ASP085 with finger push-button)	55
SP066xxVBNF (ASP086)	58
SP066xxVBPC (ASP066 with finger push-button)	58
SP066xxVBPF (ASP086 with	F0



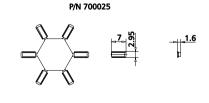
# Coding pin 700025 | white | Terminal block

- The coding pins are inserted into the slots provided in the terminal block and respective header. The coding pin with the bridge will be inserted into the header.
- This method of coding does not result in any circuit loss.
   Please refer to the drawing below for further details.
- Group of 6 coding pins

Picture White



## Dimensional drawing



P/N	Color	Feature 1	Feature 2	
700025-01-9	white			



finger push-button)





## Screwdriver 791989 | 2.5 mm

• Screwdriver with blade width 2.50 mm / 0.098 inches



## Screwdriver 791990 | 3.0 mm

• Screwdriver with blade width 3.00 mm / 0.118 inches

P/N	Color	Feature 1	Feature 2	
791989				

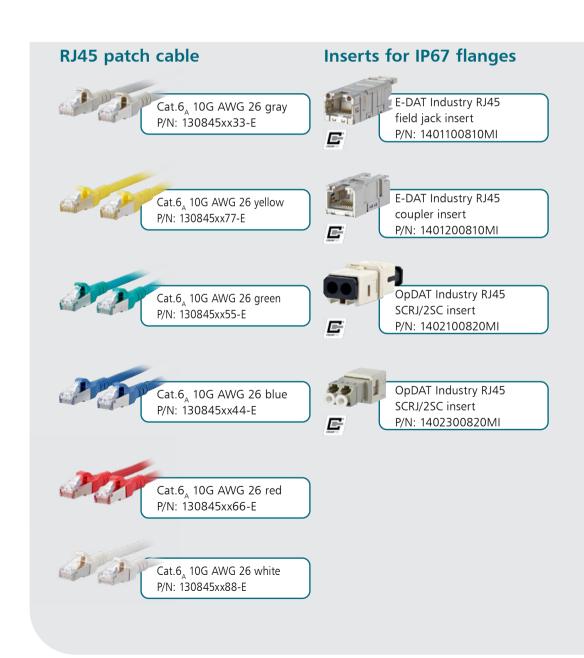
P/N	Color	Feature 1	Feature 2	
791990				



# P Cabling

# Cross range application solutions

Next to the products from our U|Contact range that offers PCB connection systems, we also provide cross-range application solutions from the P|Cabling range enabling a structured and smooth data flow from the PCB to the network and the infrastructure.



## **IP67 flanges**



Industry IP67 V1 bulkhead P/N: 1401013302KE

## **Plugs**



E-DAT Industry IP20 RJ45 field plug black P/N: 1401405012-I

## **Ethernet M12 lines**



Connection line M12 4-pole D-coded P/N: 142M1D10xxx



Industry IP67 V1 metal bulkhead P/N: 1401013300ME



E-DAT Industry IP20 RJ45 plug P/N: 1401505012-E



Cable M12 4-pole D-coded P/N: 142M1D11xxx



Industry IP67 V4 bulkhead P/N: 1401043302KE



OpDAT Industry IP20 SC plug P/N: 1402F05020-I



Cable M12 8-pole X-coded P/N: 142M2X10xxx



Industry IP67 V5 metal bulkhead P/N: 1401063300ME



OpDAT Industry IP20 LC-D plug P/N: 1402805020-I



Connection line M12 8-pole X-coded P/N: 142M2X11xxx



Industry IP67 V14 bulkhead standard fixation P/N: 14010833C0MN



Ethernet M12 cable plug, suitable for field assembly, 8-pole X-coded P/N: MNF881A315



Connection line RJ45/M12, 8-pole X-coded 1, 2, 5, 10 m P/N: 142M2X15xxx



Industry IP67 V14 bulkhead central fixation P/N: 14010833C0MC







	Type- and Crosslist	
1	Index   Product name   PN	304
2	Crosslist   Spring clamp terminal blocks	
	and matching Pin headers	307
3	Crosslist   Screw type terminal blocks	
	and matching Pin headers	310
4	Crosslist   Accessories for Spring clamp	
	terminal blocks	314
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	terminal blocks	315
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7	Type List and Usage Guides	317

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SP066xxVBPF



Old product na	me New product nan	ne P/N	Page
AST061	ST061xxHDNN	AST061	23
AST021	ST021xxHDNN	AST021	23
AST041	ST041xxDDNN	AST041	24
AST072	ST072xxHGNN	AST072	25
AST082	ST072xxVGNN	AST082	25
AST223	SR213xxHBNC	AST223	26
	SR213xxHBPC	SR213xxHBPC	26
AST233	SR213xxDBNC	AST233	27
	SR213xxDBPC	SR213xxDBPC	27
AST213	SR213xxVBNC	AST213	28
	SR213xxVBPC	SR213xxVBPC	28
AST024	ST024xxHDNC	AST024	29
AST225	SR215xxHBNC	AST225	30
	SR215xxHBPC	SR215xxHBPC	30
AST065	ST065xxHDNN	AST065	31
AST025	ST025xxHDNC	AST025	31
AST055	ST055xxHBNC	AST055	32
AST095	ST095xxHDNN	AST095	32
AST235	SR215xxDBNC	AST235	33
AST045	ST045xxDDNC	AST045	33
AST135	ST135xxDDNC	AST135	34
AST175	ST175xxLDNN	AST175	34
AST175	ST185xxLDNN	AST185	35
AST215	SR215xxVBNC	AST215	35
ASIZIS	SR215xxVBPC	SR215xxVBPC	36
ACT10F			
AST105	ST105xxVDNN	AST105	36
AST125	ST125xxVDNN	AST125	37
AST145	ST145xxVDNN	AST145	37
AST176	ST176xxLDNN	AST176	38
AST186	ST186xxLDNN	AST186	38
AST067	ST067xxHDNN	AST067	39
AST027	ST027xxHDNC	AST027	39
AST057	ST057xxHBNC	AST057	40
AST047	ST047xxDDNC	AST047	40
AST137	ST137xxDDNC	AST137	41
AST177	ST177xxLDNN	AST177	41
AST187	ST187xxLDNN	AST187	42
AST098	ST098xxHDNN	AST098	43
AST178	ST178xxLDNN	AST178	43
AST188	ST188xxLDNN	AST188	44
AST108	ST108xxVDNN	AST108	44
AST128	ST128xxVDNN	AST128	45
AST059	ST059xxHBNC	AST059	46
AST139	ST139xxDDNC	AST139	46
ASP051	SP051xxVGNN	ASP051	47
ASP043	SP043xxVBNN	ASP043	48
	SW063xxVBNN	SW063xxVBNN	48
ASP063	SP063xxVGNN	ASP063	49
ASP083	SP063xxVGNF	ASP083	49
ASP044	SP044xxVBNN	ASP044	50
ASP064	SP064xxVGNN	ASP064	50
ASP084	SP064xxVGNF	ASP084	51
ASP025	SP025xxHDNC	ASP025	52
ASP145	SP145xxHBNC	ASP145	52
ASP155	SP155xxHBNC	ASP155	53
ASP045	SP045xxVBNC	ASP045	53
, 131 043	SP045xxVBNC SP065xxVBNC	SP065xxVBNC	54
	SP065xxVBPC	SP065xxVBPC	54
	SP065xxVBNF	SP065xxVBNF	55
	SP065xxVBPF	SP065xxVBPF	55
ACD0.45	SP995xxVBNC	SP995xxVBNC	56
ASP046	SP046xxVBNC	ASP046	57
	SP066xxVBNC	SP066xxVBNC	57
	SP066xxVBPC	SP066xxVBPC	58
	SP066xxVBNF	SP066xxVBNF	58

## Spring clamp terminal blocks

Old product name	New product name	P/N	Page
ASP049	SP049xxVBNC	ASP049	60
ASP129	SP129xxVBNF	ASP129	60
ASP04A	SP04AxxVBNC	ASP04A	61
	SC305xxHBNN	SC305xxHBNN	62
	SL305xxHBNN	SL305xxHBNN	62

## Screw type terminal blocks

Old product name	New product name	P/N	Page
Гуре 060	RT063xxHBNC	310601	69
Гуре 059	RT063xxHBWC	310591	69
ype 459	RT063xxOBWC	314591	70
ype 461	RT063xxPBWC	314611	70
vpe 359	RT033xxHBLU	313591	71
ype 105	RT083xxDBWC	311051	71
ype 305	RT043xxLBLC	313051	72
Гуре 061	RT063xxVBWC	310611	72
Гуре 361	RT033xxVBLU	313611	73
ype 086	RT034xxHBLC	310861	74
Гуре 001	RT015xxHDWC	310011	75
Type 055	RT015xxHDWU	310551	75
Гуре 271	RT135xxHBWC	312711	76
			76
Type 003	RT045xxHBWC	310031	
Type 069	RT045xxMBWC	310691	77
Type 011	RT055xxHBLC	310111	77
ype 071	RT025xxHBLC	310711	78
ype 072	RT025xxHBLU	310721	78
ype 204	RT145xxHBVC	312041	79
Гуре 269	RT145xxMBLC	312691	79
Гуре 170	RT165xxHBNC	311701	80
Гуре 094	RT035xxHBLU	310941	80
Гуре 092	RT075xxHBLU	310921	81
Гуре 096	RT205xxHBLU	310961	81
ype 065	RT025xxOGLU	310651	82
Гуре 385	RT025xxHDLL	313851	82
Гуре 386	RT025xxHDLR	313861	83
Туре 005	RT085xxDBWC	310051	83
Гуре 205	RT045xxUBLC	312051	84
Гуре 063	RT015xxVDWC	310631	84
Гуре 147	RT095xxVBWC	311471	85
Type 101	RT016xxHBWC	311011	86
Type 015	RT056xxHBLU	310151	86
Туре 095	RT036xxHBLU	310951	87
Туре 083	RT046xxHBWU	310831	87
Туре 093	RT076xxHBLU	310931	88
Type 097	RT206xxHBLU	310971	88
**	RT026xxHBLU	310731	89
Type 073	RT016xxVBWC	-	89
Type 163		311631	
Type 701	RT11LxxHGLU	317011	90
Type 171	RT137xxHBWC	311711	
Гуре 175	RT027xxHBLC	311751	91
Гуре 703	RT10NxxHGLU	317031	92
Гуре 001	RT019xxHDWC	310012	93
Type 067	RT019xxHDWC	310671	93
Type 271	RT139xxHBWC	312712	94
Гуре 003	RT049xxHBWC	310032	94
ype 069	RT049xxMBWC	310692	95
Type 011	RT059xxHBLC	310112	95
Гуре 071	RT029xxHBLC	310712	96
Type 269	RT149xxMBLC	312692	96
Type 205	RT049xxUBLC	312052	97
Гуре 063	RT019xxVDWC	310632	97
Гуре 147	RT099xxVBWC	311472	98
Гуре 163	RT01AxxVBWC	311632	99
Type 166	RP023xxHBWC	311661	100
Type 165	RP023xxHBNF	311651	100
Туре 614	RP043xxHBLC	316141	101



SP066xxVBPF

## Screw type terminal blocks

Old product name	New product name	P/N	Page
Type 613	RP043xxHBLD	316131	101
Type 634	RP043xxHBLF	316341	102
Type 633	RP043xxHBLS	316331	102
Type 514	RW043xxHBLC	315141	103
Type 513	RW043xxHBLD	315131	103
Type 534	RW043xxHBLF	315341	104
Type 533	RW043xxHBLS	315331	104
Type 169	RP013xxVBWN	311691	105
Type 339	RP033xxVBLC	313391	105
Type 114	RP034xxHBLN	311141	106
Type 113	RP034xxHBLO	311131	106
Type 369	RP034xxVBLN	313691	107
Type 379	RP034xxVBLF	313791	107
Type 007	RP025xxIBWC	310071	108
Type 077	RP025xxIBWU	310771	108
Type 107	RP025xxHBWC	311071	109
Type 108	RP025xxMBWC	311081	109
Type 207	RP025xxHBLC	312071	110
Type 137	RP025xxIBLC	311371	110
Type 157 with snap-in technique	RP095xxRBWC	311571	111
Type 157 without ridge	RP095xxBBWC	311571xx-002730	111
Type 157 with ridge	RP095xxHBWC	311571xx-002740	112
Type 009	RP015xxWBWC	310091	112
Type 049	RP015xxWBLC	310491	113
Type 349	RP015xxVBLC	313491	113
Type 350	RP015xxSBLC	313501	114
Type 351	RP015xxVBLF	313511	114
Type 348	RP085xxVBLC	313481	115
Type 013	RP035xxIBLN	310131	115
Type 313	RP035xxHBLC	313131	116
Type 314	RP035xxHBLD	313141	116
турс этт	RP995xxVDNN	RP995xxVDNN	117
Type 079	RP026xxIBWU	310791	118
Type 249	RP016xxVBLC	312491	118
Type 250	RP016xxSBLC	312501	119
Type 251	RP016xxVBLF	312511	119
Type 213	RP036xxHBLC	312131	120
Type 214	RP036xxHBLD	312141	120
Type 217	RP036xxHBLF	312171	121
Type 217	RP036xxHBLS	312181	121
Type 262	RP018xxVBLC	312621	122
Type 007	RP029xxIBWC	310072	123
	RP019xxWBLC	310492	123
Type 049			
Type 313	RP039xxHBLC RP019xxVBLC	313132	124
Type 349		313492	124
Type 351	RP019xxVBLF	313512	125
Type 249	RP01AxxVBLC	312492	126
Type 251	RP01AxxVBLF	312512	126
Type 213	RP03AxxHBLC	312132	127
Type 214	RP03AxxHBLD	312142	127
Type 217	RP03AxxHBLF	312172	128
Type 218	RP03AxxHBLS	312182	128

## **IDC** type terminal blocks

Old product name	New product name	P/N	Page
AIT023	IT023xxHDNU	AIT023	137

## Pin headers

Old product name	New product name	P/N	Page
Type 374	PT091xxHGBN	313741	145
Type 373	PT091xxVGBN	313731	145
Type 024	PR013xxVBHC	310241	146
Type 188	PR043xxHBBN	311881	146
Type 388	PR043xxHBBF	313881	147
Type 527	PW063xxHBEC	315271	147

## Pin headers

Old product name	New product name	P/N	Page
Type 523	PW063xxHBBN	315231	148
Type 525	PW063xxHBBF	315251	148
Type 342	PT093xxHBBN	313421	149
Туре 394	PT093xxHBBF	313941	149
Type 182	PT113xxHBBN	311821	150
Type 224	PR033xxVBHC	312241	150
Type 189	PR043xxVBBN	311891	151
Type 389	PR043xxVBBF	313891	151
Type 528	PW063xxVBEC	315281	152
Type 524	PW063xxVBBN	315241	152
Type 526	PW063xxVBBF	315261	153
Type 424	PM013xxVBHC	314241	153
Type 343	PT093xxVBBN	313431	154
Type 183	PT113xxVBBN	311831	154
Type 190	PR044xxHBBN	311901	155
Type 390	PR044xxHBBF	313901	155
Type 382	PT094xxHBBN	313821	156
Type 392	PT094xxHBBF	313921	156
Type 191	PR044xxVBBN	311911	157
Type 391	PR044xxVBBF	313911	157
Type 383	PT094xxVBBN	313831	158
Type 393	PT094xxVBBF	313931	158
Type 476	PR065xxHBEC	314761	159
Type 176	PR065xxHBBN	311761	159
Type 396	PR065xxHBBF	313961	160
Type 337	PR075xxHBEL	313371	160
Type 338	PR075xxHBER	313381	161
Type 029	PT045xxHBEC	310291	161
Type 030	PT045xxHBBN	310301	162
Type 031	PT045xxHBVC	310311	162
Type 039	PT055xxHBHC	310391	163
Type 280	PT105xxHGDN	312801	163
Type 329	PT115xxHBEC	313291	164
Type 330	PT115xxHBBN	313301	164
Type 336	PT115xxHBBF	313361	165
Type 276	PT165xxHGDN	312761	165
Type 017	PR015xxVBHC	310171	166
Type 027	PR015xxVBVC	310271	166
Type 317	PM015xxVBHC	313171	167
Type 318	PM025xxVBHC	313181	167
Type 046	PRO35xxVBHC	310461	168
Type 048	PR055xxVBHC	310481	168
Type 477	PR065xxVBEC	314771 311771	169
Type 177	PR065xxVBBN		169
Type 397	PR065xxVBBF PM035xxVBHC	313971	170
Type 417 Type 019	PT045xxVBEC	314171 310191	170
Type 019	PT045xxVBBN	310201	171
Type 041	PT045xxVBEN	310411	171
Type 042	PT065xxVBVN	310421	172
Type 278	PT105xxVGDN	312781	172
Type 319	PT115xxVBEC	313191	173
Type 320	PT115xxVBBN	313201	174
Type 335	PT115xxVBBF	313351	174
Type 274	PT165xxVGDN	312741	174
Type 274	PT175xxVGDN	312741	175
Type 478	PR066xxHBEC	314781	176
Type 178	PR066xxHBBN	311781	176
Type 292	PT106xxHGDN	312921	177
Type 229	PT116xxHBEC	312291	177
Type 230	PT116xxHBBN	312301	177
Type 236	PT116xxHBBF	312361	178
Type 288	PT166xxHGDN	312881	179
Type 018	PR016xxVBHC	310181	179
Type 028	PR016xxVBVC	310281	180
., pc 020	. NO I DANV DV C	3,0201	100



## Pin headers

Old product name	New product name	P/N	Page
Type 398	PR066xxHBBF	313981	181
Type 399	PR066xxVBBF	313991	181
Type 479	PR066xxVBEC	314791	182
Type 179	PR066xxVBBN	311791	182
Type 290	PT106xxVGDN	312901	183
Type 219	PT116xxVBEC	312191	183
Type 220	PT116xxVBBN	312201	184
Type 235	PT116xxVBBF	312351	184
Type 286	PT166xxVGDN	312861	185
Type 265	PT118xxHBEC	312651	186
Type 266	PT118xxHBBC	312661	186
Type 263	PT118xxVBEC	312631	187
Type 264	PT118xxVBBC	312641	187
Type 031	PT049xxHBVC	310312	188
Type 030	PT049xxHBBN	310302	188
Type 336	PT119xxHBBF	313362	189
Type 042	PT069xxVBVN	310422	189
Type 020	PT049xxVBBN	310202	190
Type 320	PT119xxVBBN	313202	190
Type 335	PT119xxVBBF	313352	191
Type 229	PT11AxxHBEC	312292	192
Type 230	PT11AxxHBBN	312302	192
Type 236	PT11AxxHBBF	312362	193
Type 219	PT11AxxVBEC	312192	193
Type 220	PT11AxxVBBN	312202	194
Type 235	PT11AxxVBBF	312352	194

## **Female connectors**

Old product name	New product name	P/N	Page
	FW143xxVBFC	FW143xxVBFC	197
Туре 089	FT143xxVBFC	310891	197
Туре 026	FT085xxVBFC	310261	198

## Pin headers

Old product name	New product name	P/N	Page
	PR20BxxHBNN	PR20BxxHBNN	203
	PR20BxxHBDN	PR20BxxHBDN	203
	PR20BxxVBNN	PR20BxxVBNN	204
	PR20BxxVBDN	PR20BxxVBDN	204
	PM20BxxVBNN	PM20BxxVBNN	205
	PM20BxxVBDN	PM20BxxVBDN	205
	PR20CxxHBNN	PR20CxxHBNN	206
	PR20CxxHBDN	PR20CxxHBDN	206
	PM20CxxHBNN	PM20CxxHBNN	207
	PM20CxxHBDN	PM20CxxHBDN	207
	PR20CxxVBNN	PR20CxxVBNN	208
	PR20CxxVBDN	PR20CxxVBDN	208
	PM20CxxVBNN	PM20CxxVBNN	209
	PM20CxxVBDN	PM20CxxVBDN	209
	PR202xxHBNN	PR202xxHBNN	210
	PR202xxHBDN	PR202xxHBDN	210
	PM202xxHBNN	PM202xxHBNN	211
	PM202xxHBDN	PM202xxHBDN	211
	PR202xxVBNN	PR202xxVBNN	212
	PR202xxVBDN	PR202xxVBDN	212
	PM202xxVBNN	PM202xxVBNN	213
	PM202xxVBDN	PM202xxVBDN	213

## **Female connectors**

Old product name	New product name	P/N	Page
	FR20BxxVBNN	FR20BxxVBNN	215
	FR20BxxVBDN	FR20BxxVBDN	215
	FM20BxxVBDN	FM20BxxVBDN	216
	FR20CxxHBNN	FR20CxxHBNN	217
	FR20CxxHBDN	FR20CxxHBDN	217
	FR20CxxVBNN	FR20CxxVBNN	218



## **Female connectors**

Old product name	New product name	P/N	Page
	FR20CxxVBDN	FR20CxxVBDN	218
	FM20CxxVBNN	FM20CxxVBNN	219
	FM20CxxVBDN	FM20CxxVBDN	219
	FR202xxHBNN	FR202xxHBNN	220
	FR202xxHBDN	FR202xxHBDN	220
	FR202xxVBNN0002	FR202xxVBNN0002	221
	FR202xxVBDN0002	FR202xxVBDN0002	221
	FR202xxVBNN	FR202xxVBNN	222
	FR202xxVBDN	FR202xxVBDN	222
	FR202xxVBNN0001	FR202xxVBNN0001	223
	FR202xxVBDN0001	FR202xxVBDN0001	223
	FM202xxVBNN	FM202xxVBNN	224
	FM202xxVBDN	FM202xxVBDN	224

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	Page		145		149	151	154	147	148	152	152	147	<b>ند</b> 149	151	155	157	156	<u>د</u> 158		156	157	158	<b>ند</b> 163	166	170	172
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SW063xxVBNN	48							•		•	•															
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SP064xxVGNN	50																•	•								
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terminal blocks	0																							
SP051xxVGNN	Page 47	177	177	178	179	182	183	183	184	185	178	181	181	184	190	189	191	192	192	193	194			
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	Page	150	153	146	146	149	151	154	147	149	151	148	152	148	153	150	154	155	156	157	158	155	156	157	158	163
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			LED-light transmitter for headers, pluggable	LED-light transmitter for headers, pluggab	LED-light transmitter for headers, pluggable			LED-light transmitter for headers, pluggable	LED-light transmitter for headers, pluggable	LED-light transmitter for headers, pluggable										
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		720293	-lig hea	lig hea	-lig hea	243	243	-lig hea	-lig hea	lig hea	700024									
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- Approval exists
- O Approval pending

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SP049xxVBNC         □         60         □         □           SP129xxVBNF         □         60         □         □           SC305xxHBNN         □         62         □         □           SM99S         □         63         □         □           SR99S         □         63         □         □           RT063xxHBWC         〒         69         □         □           RT063xxDBWC         〒         70         □         □           RT033xxHBLU         〒         71         □         □           RT033xxDBWC         〒         71         □         □           RT043xxLBLC         〒         72         □         □           RT043xxLBLC         〒         72         □         □           RT034xxHBLC         〒         74         □         □           RT034xxHBLC         〒         74         □         □           RT015xxHDWU         〒         75         □         □           RT045xxHBWC         〒         76         □         □           RT045xxHBWC         〒         76         □         □           RT025xxHBLU         〒 <td>SP066xxVBPF</td> <td>=</td> <td>59</td> <td>•</td> <td></td> <td></td> <td></td> <td>0</td>	SP066xxVBPF	=	59	•				0
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SL305xxHBNN         □         62         ○           SM99S         □         63         ○           RT063xxHBNC         ▼         69         ●           RT063xxHBWC         ▼         69         ●           RT063xxDBWC         ▼         70         ●           RT063xxDBWC         ▼         70         ●           RT033xxHBLU         ▼         71         ●           RT033xxHBLU         ▼         71         ●         ●           RT043xxLBLC         ▼         72         ●         ●           RT033xxVBU         ▼         72         ●         ●           RT034xxLBLC         ▼         72         ●         ●           RT034xxLBLC         ▼         74         ●         ●           RT015xxLDWC         ▼         75         ●         ●           RT015xxLDWU         ▼         75         ●         ●           RT045xxLBWC         ▼         76         ●         ●           RT045xxLBWC         ▼         76         ●         ●           RT025xxHBLC         ▼         77         ●         ●           RT145xxHBVC         ▼	SP129xxVBNF	=	60	•				0
SM99S         □         63         ○           RT063xxHBNC         ▼         69         ●           RT063xxHBWC         ▼         69         ●           RT063xxDBWC         ▼         70         ●           RT063xxDBWC         ▼         70         ●           RT033xxHBLU         ▼         71         ●           RT033xxDBWC         ▼         71         ●           RT043xxLBLC         ▼         72         ●           RT033xxVBU         ▼         72         ●           RT034xxLBLC         ▼         72         ●           RT033xxVBU         ▼         73         ●           RT034xxLBLC         ▼         74         ●           RT015xxLDWU         ▼         75         ●           RT015xxLDWU         ▼         75         ●           RT045xxLBWC         ▼         76         ●           RT045xxLBWC         ▼         76         ●           RT025xxHBLC         ▼         77         ●           RT025xxHBLU         ▼         78         ●           RT145xxHBVC         ▼         79         ●           RT025xxHBLU	SC305xxHBNN	回	62	0				0
SR99S         □         63         ○           RT063xxHBNC         □         69         ●           RT063xxHBWC         □         69         ●           RT063xxDBWC         □         70         ●           RT063xxPBWC         □         71         ●           RT083xxDBWC         □         71         ●           RT043xxLBLC         □         72         ●           RT033xxVBLU         □         73         ●           RT033xxVBLU         □         73         ●           RT034xxHBLC         □         74         ●           RT015xxHDWC         □         75         ●           RT015xxHDWU         □         75         ●           RT045xxHBWC         □         76         ●           RT045xxHBWC         □         77         ●           RT025xxHBLU         □         78         ●           RT045xxHBWC         □         77         ●           RT145xxHBVC         □         79         ●           RT145xxHBVC         □         79         ●           RT145xxHBVC         □         79         ●           RT165xxHBU <td>SL305xxHBNN</td> <td>回</td> <td>62</td> <td>0</td> <td></td> <td></td> <td></td> <td>0</td>	SL305xxHBNN	回	62	0				0
SR99S         □         63         ○           RT063xxHBNC         □         69         ●           RT063xxHBWC         □         69         ●           RT063xxDBWC         □         70         ●           RT063xxPBWC         □         71         ●           RT083xxDBWC         □         71         ●           RT043xxLBLC         □         72         ●           RT033xxVBLU         □         73         ●           RT033xxVBLU         □         73         ●           RT034xxHBLC         □         74         ●           RT015xxHDWC         □         75         ●           RT015xxHDWU         □         75         ●           RT045xxHBWC         □         76         ●           RT045xxHBWC         □         77         ●           RT025xxHBLU         □         78         ●           RT045xxHBWC         □         77         ●           RT145xxHBVC         □         79         ●           RT145xxHBVC         □         79         ●           RT145xxHBVC         □         79         ●           RT165xxHBU <td>SM99S</td> <td></td> <td>63</td> <td>0</td> <td></td> <td></td> <td></td> <td>0</td>	SM99S		63	0				0
RT063xxHBWC         \$\begin{array}{c}\$ 69 \$\begin{array}{c}\$ \\ RT063xxDBWC         \$\begin{array}{c}\$ 70 \$\begin{array}{c}\$ \\ RT063xxPBWC         \$\begin{array}{c}\$ 70 \$\begin{array}{c}\$ \\ RT083xxDBWC         \$\begin{array}{c}\$ 71 \$\begin{array}{c}\$ \\ RT083xxDBWC         \$\begin{array}{c}\$ 71 \$\begin{array}{c}\$ \\ RT043xxLBLC         \$\begin{array}{c}\$ 72 \$\begin{array}{c}\$ \\ RT063xxVBWC         \$\begin{array}{c}\$ 72 \$\begin{array}{c}\$ \\ RT063xxVBWC         \$\begin{array}{c}\$ 72 \$\begin{array}{c}\$ \\ RT063xxVBWC         \$\begin{array}{c}\$ 73 \$\begin{array}{c}\$ \\ RT034xxHBWC         \$\begin{array}{c}\$ 74 \$\begin{array}{c}\$ \\ RT045xxHBWC         \$\begin{array}{c}\$ 75 \$\begin{array}{c}\$ \\ RT045xxHBWC         \$\begin{array}{c}\$ 76 \$\begin{array}{c}\$ \\ RT045xxHBWC         \$\begin{array}{c}\$ 77 \$\begin{array}{c}\$ \\ RT025xxHBLC         \$\begin{array}{c}\$ 77 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 78 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 78 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 78 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 79 \$\begin{array}{c}\$ \\ RT035xxHBLU         \$\begin{array}{c}\$ 80 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 80 \$\begin{array}{c}\$ \\ RT025xxHDLL         \$\begin{array}{c}\$ 81 \$\begin{array}{c}\$ \\ RT025xxHDLL         \$\begin{array}{c}\$ 82 \$\begin{array}{c}\$ \\ RT025xxHDLL         \$\begin{array}{c}\$ 83 \$\begin{array}{c}\$ \\ RT045xxDBWC         \$\begin{array}{c}\$ 84 \$\begin{array}{c}\$ \\ RT015xxDWC         \$\begin{array}{c}\$ 84 \$\begin{array}{c}\$ \\ RT015xxDWC         \$\begin{array}{c}\$ 84 \$\begin{array}{c}\$ \\ RT045xxHBWC         \$\begin{array}{c}\$ 86 \$\begin{array}{c}\$ \\ RT046xxHBWC         \$\begin{array}{c}\$ 86 \$\b	SR99S	=		0				0
RT063xxHBWC         \$\begin{array}{c}\$ 69 \$\begin{array}{c}\$ \\ RT063xxDBWC         \$\begin{array}{c}\$ 70 \$\begin{array}{c}\$ \\ RT063xxPBWC         \$\begin{array}{c}\$ 70 \$\begin{array}{c}\$ \\ RT083xxDBWC         \$\begin{array}{c}\$ 71 \$\begin{array}{c}\$ \\ RT083xxDBWC         \$\begin{array}{c}\$ 71 \$\begin{array}{c}\$ \\ RT043xxLBLC         \$\begin{array}{c}\$ 72 \$\begin{array}{c}\$ \\ RT063xxVBWC         \$\begin{array}{c}\$ 72 \$\begin{array}{c}\$ \\ RT063xxVBWC         \$\begin{array}{c}\$ 72 \$\begin{array}{c}\$ \\ RT063xxVBWC         \$\begin{array}{c}\$ 73 \$\begin{array}{c}\$ \\ RT034xxHBWC         \$\begin{array}{c}\$ 74 \$\begin{array}{c}\$ \\ RT045xxHBWC         \$\begin{array}{c}\$ 75 \$\begin{array}{c}\$ \\ RT045xxHBWC         \$\begin{array}{c}\$ 76 \$\begin{array}{c}\$ \\ RT045xxHBWC         \$\begin{array}{c}\$ 77 \$\begin{array}{c}\$ \\ RT025xxHBLC         \$\begin{array}{c}\$ 77 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 78 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 78 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 78 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 79 \$\begin{array}{c}\$ \\ RT035xxHBLU         \$\begin{array}{c}\$ 80 \$\begin{array}{c}\$ \\ RT025xxHBLU         \$\begin{array}{c}\$ 80 \$\begin{array}{c}\$ \\ RT025xxHDLL         \$\begin{array}{c}\$ 81 \$\begin{array}{c}\$ \\ RT025xxHDLL         \$\begin{array}{c}\$ 82 \$\begin{array}{c}\$ \\ RT025xxHDLL         \$\begin{array}{c}\$ 83 \$\begin{array}{c}\$ \\ RT045xxDBWC         \$\begin{array}{c}\$ 84 \$\begin{array}{c}\$ \\ RT015xxDWC         \$\begin{array}{c}\$ 84 \$\begin{array}{c}\$ \\ RT015xxDWC         \$\begin{array}{c}\$ 84 \$\begin{array}{c}\$ \\ RT045xxHBWC         \$\begin{array}{c}\$ 86 \$\begin{array}{c}\$ \\ RT046xxHBWC         \$\begin{array}{c}\$ 86 \$\b		=		-				•
RT063xxOBWC       ▼ 70       ●         RT063xxPBWC       ▼ 70       ●         RT033xxHBLU       ▼ 71       ●         RT043xxLBLC       ▼ 72       ●         RT063xxVBWC       ▼ 72       ●         RT063xxVBWC       ▼ 72       ●         RT063xxVBWC       ▼ 74       ●         RT034xxHBLC       ▼ 74       ●         RT015xxHDWC       ▼ 75       ●         RT015xxHDWU       ▼ 75       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 77       ●         RT025xxHBLC       ▼ 77       ●         RT025xxHBLC       ▼ 79       ●         RT145xxHBVC       ▼ 79       ●         RT145xxHBVC       ▼ 79       ●         RT165xxHBLU       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 82       ●         RT045xxUBLC       ▼ 84       ●         RT016xxHBWC		=						•
RT063xxPBWC       ▼ 70 ○         RT033xxHBLU       ▼ 71 ●         RT083xxDBWC       ▼ 71 ●         RT043xxLBLC       ▼ 72 ●         RT063xxVBWC       ▼ 72 ●         RT033xxVBLU       ▼ 73 ●         RT034xxHBLC       ▼ 74 ●         RT015xxHDWC       ▼ 75 ●         RT015xxHDWU       ▼ 75 ●         RT015xxHDWU       ▼ 75 ●         RT045xxHBWC       ▼ 76 ●         RT045xxHBWC       ▼ 76 ●         RT045xxHBWC       ▼ 77 ●         RT025xxHBLC       ▼ 77 ●         RT025xxHBLU       ▼ 78 ●         RT145xxHBVC       ▼ 79 ●         RT145xxHBVC       ▼ 79 ●         RT145xxHBVC       ▼ 79 ●         RT165xxHBNC       ▼ 80 ●         RT035xxHBLU       ▼ 81 ●         RT025xxHBLU       ▼ 81 ●         RT025xxHBLU       ▼ 81 ●         RT025xxHBLU       ▼ 81 ●         RT025xxHBLU       ▼ 83 ●         RT025xxHBLU       ▼ 83 ●         RT045xxUBLC       ▼ 84 ●         RT045xxUBLC       ▼ 84 ●         RT015xxVDWC       ▼ 85 ●         RT016xxHBWC       ▼ 86 ●         RT046xxHBU       ▼ 87 ●		=		_				
RT033xxHBLU       ▼ 71       ●         RT043xxLBLC       ▼ 72       ●         RT063xxVBWC       ▼ 72       ●         RT063xxVBWC       ▼ 72       ●         RT033xxVBLU       ▼ 73       ●         RT034xxHBLC       ▼ 74       ●         RT015xxHDWC       ▼ 75       ●         RT015xxHDWU       ▼ 75       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 77       ●         RT045xxHBLC       ▼ 77       ●         RT025xxHBLC       ▼ 78       ●         RT025xxHBLU       ▼ 78       ●         RT145xxMBLC       ▼ 79       ●         RT145xxHBNC       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT035xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 82       ●         RT025xxHBLU       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxHBWC       ▼ 85       ●         RT016xxHBWC				0				
RT083xxDBWC       ▼ 71       ●         RT043xxLBLC       ▼ 72       ●         RT063xxVBWC       ▼ 72       ●         RT033xxVBLU       ▼ 73       ●         RT034xxHBLC       ▼ 74       ●         RT015xxHDWC       ▼ 75       ●         RT015xxHDWU       ▼ 75       ●         RT015xxHDWU       ▼ 75       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 77       ●         RT025xxHBLC       ▼ 77       ●         RT025xxHBLU       ▼ 78       ●         RT145xxHBVC       ▼ 79       ●         RT145xxHBVC       ▼ 79       ●         RT145xxHBU       ▼ 80       ●         RT025xxHBLU       ▼ 80       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT046xxHBWU				_				
RT043xxLBLC       ▼ 72       ●         RT063xxVBWC       ▼ 72       ●         RT033xxVBLU       ▼ 73       ●         RT015xxHDWC       ▼ 75       ●         RT015xxHDWU       ▼ 75       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 77       ●         RT045xxHBLC       ▼ 77       ●         RT025xxHBLC       ▼ 78       ●         RT025xxHBLU       ▼ 78       ●         RT145xxHBVC       ▼ 79       ●         RT145xxHBNC       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 82       ●         RT025xxHBLU       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT046xxHBWU       ▼ 87       ●         RT046xxHBUU		=		_				
RT063xxVBWC       ▼ 72       ●         RT033xxVBLU       ▼ 73       ●         RT034xxHBLC       ▼ 74       ●         RT015xxHDWC       ▼ 75       ●         RT015xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 77       ●         RT045xxHBLC       ▼ 77       ●         RT025xxHBLC       ▼ 78       ●         RT025xxHBLU       ▼ 78       ●         RT145xxHBVC       ▼ 79       ●         RT145xxHBLU       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 82       ●         RT025xxHBLU       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT046xxHBWU       ▼ 87       ●         RT046xxHBUU		브		_				
RT033xxVBLU       ▼ 74       ●         RT034xxHBLC       ▼ 74       ●         RT015xxHDWC       ▼ 75       ●         RT015xxHDWU       ▼ 76       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 77       ●         RT045xxHBLC       ▼ 77       ●         RT025xxHBLC       ▼ 78       ●         RT025xxHBLU       ▼ 78       ●         RT145xxHBVC       ▼ 79       ●         RT145xxHBLU       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLR       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT036xxHBLU       ▼ 87       ●         RT046xxHBUU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU								
RT034xxHBLC       ▼ 74       ●         RT015xxHDWC       ▼ 75       ●         RT015xxHDWU       ▼ 76       ●         RT045xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 77       ●         RT045xxHBWC       ▼ 77       ●         RT045xxHBLC       ▼ 77       ●         RT025xxHBLC       ▼ 78       ●         RT025xxHBLU       ▼ 78       ●         RT145xxHBVC       ▼ 79       ●         RT145xxHBVC       ▼ 79       ●         RT145xxHBLU       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLL       ▼ 82       ●         RT045xxUBLC       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT036xxHBLU       ▼ 87       ●         RT046xxHBWU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU								
RT015xxHDWC       ▼ 75       ●         RT015xxHDWU       ▼ 75       ●         RT135xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 77       ●         RT045xxHBWC       ▼ 77       ●         RT045xxHBWC       ▼ 77       ●         RT025xxHBLC       ▼ 78       ●         RT025xxHBLU       ▼ 78       ●         RT145xxHBVC       ▼ 79       ●         RT145xxHBNC       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLL       ▼ 83       ●         RT045xxUBLC       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT036xxHBLU       ▼ 86       ●         RT046xxHBWU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●								
RT135xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 76       ●         RT045xxMBWC       ▼ 77       ●         RT055xxHBLC       ▼ 77       ●         RT025xxHBLU       ▼ 78       ●         RT025xxHBLU       ▼ 79       ●         RT145xxMBC       ▼ 79       ●         RT165xxHBNC       ▼ 80       ●         RT035xxHBLU       ▼ 81       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLL       ▼ 83       ●         RT045xxUBLC       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT036xxHBLU       ▼ 87       ●         RT046xxHBWU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●			75	•				•
RT135xxHBWC       ▼ 76       ●         RT045xxHBWC       ▼ 76       ●         RT045xxMBWC       ▼ 77       ●         RT055xxHBLC       ▼ 77       ●         RT025xxHBLU       ▼ 78       ●         RT025xxHBLU       ▼ 79       ●         RT145xxMBC       ▼ 79       ●         RT165xxHBNC       ▼ 80       ●         RT035xxHBLU       ▼ 81       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLL       ▼ 83       ●         RT045xxUBLC       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT036xxHBLU       ▼ 87       ●         RT046xxHBWU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●	RT015xxHDWU	T	75	•				•
RT045xxMBWC       ▼ 77       ●         RT055xxHBLC       ▼ 78       ●         RT025xxHBLU       ▼ 78       ●         RT025xxHBLU       ▼ 78       ●         RT145xxHBVC       ▼ 79       ●         RT145xxMBLC       ▼ 79       ●         RT165xxHBNC       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLR       ▼ 83       ●         RT045xxUBLC       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 85       ●         RT036xxHBLU       ▼ 86       ●         RT046xxHBWU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT026xxHBLU       ▼ 88       ●         RT026xxHBLU       ▼ 88       ●	RT135xxHBWC	Ŧ	76	•				•
RT055xxHBLC       ▼ 77       ●         RT025xxHBLU       ▼ 78       ●         RT025xxHBLU       ▼ 79       ●         RT145xxMBLC       ▼ 79       ●         RT145xxHBNC       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 82       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLL       ▼ 83       ●         RT045xxDBWC       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT036xxHBLU       ▼ 86       ●         RT046xxHBU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●         RT026xxHBLU       ▼ 88       ●	RT045xxHBWC	7	76	•				•
RT025xxHBLC       ▼ 78       ●         RT025xxHBLU       ▼ 79       ●         RT145xxMBLC       ▼ 79       ●         RT145xxMBLC       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 82       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLR       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT036xxHBLU       ▼ 86       ●         RT036xxHBLU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●	RT045xxMBWC	T	77	•				•
RT025xxHBLC       ▼ 78       ●         RT025xxHBLU       ▼ 79       ●         RT145xxMBLC       ▼ 79       ●         RT145xxMBLC       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 82       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLR       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT016xxHBWC       ▼ 86       ●         RT036xxHBLU       ▼ 86       ●         RT036xxHBLU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●         RT076xxHBLU       ▼ 88       ●	RT055xxHBLC	T	77	•				•
RT025xxHBLU       ▼ 78       ●         RT145xxHBVC       ▼ 79       ●         RT145xxMBLC       ▼ 79       ●         RT165xxHBNC       ▼ 80       ●         RT035xxHBLU       ▼ 80       ●         RT075xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 81       ●         RT025xxHBLU       ▼ 82       ●         RT025xxHDLL       ▼ 82       ●         RT025xxHDLR       ▼ 83       ●         RT045xxDBWC       ▼ 83       ●         RT045xxUBLC       ▼ 84       ●         RT015xxVDWC       ▼ 84       ●         RT015xxVBWC       ▼ 85       ●         RT016xxHBWC       ▼ 86       ●         RT036xxHBLU       ▼ 87       ●         RT046xxHBWU       ▼ 87       ●         RT076xxHBLU       ▼ 88       ●         RT206xxHBLU       ▼ 88       ●		Ŧ	78	•				•
RT145xxMBLC       ▼ 79         RT165xxHBNC       ▼ 80         RT035xxHBLU       ▼ 80         RT075xxHBLU       ▼ 81         RT205xxHBLU       ▼ 81         RT025xxOGLU       ▼ 82         RT025xxHDLL       ▼ 83         RT025xxHDLR       ▼ 83         RT085xxDBWC       ▼ 83         RT045xxUBLC       ▼ 84         RT015xxVDWC       ▼ 84         RT016xxHBWC       ▼ 85         RT056xxHBLU       ▼ 86         RT046xxHBWU       ▼ 87         RT076xxHBLU       ▼ 88         RT076xxHBLU       ▼ 88         RT206xxHBLU       ▼ 88	RT025xxHBLU			•				•
RT165xxHBNC       ▼       80       ●         RT035xxHBLU       ▼       80       ●         RT075xxHBLU       ▼       81       ●         RT025xxHBLU       ▼       81       ●         RT025xxHBLU       ▼       82       ●         RT025xxHDLL       ▼       83       ●         RT025xxHDLR       ▼       83       ●         RT045xxDBWC       ▼       84       ●         RT045xxUBLC       ▼       84       ●         RT015xxVDWC       ▼       84       ●         RT095xxVBWC       ▼       85       ●         RT016xxHBWC       ▼       86       ●         RT036xxHBLU       ▼       86       ●         RT046xxHBWU       ▼       87       ●         RT076xxHBLU       ▼       88       ●         RT206xxHBLU       ▼       88       ●	RT145xxHBVC	14	79	•				•
RT035xxHBLU       ▼       80       ●         RT075xxHBLU       ▼       81       ●         RT205xxHBLU       ▼       81       ●         RT025xxOGLU       ▼       82       ●         RT025xxHDLL       ▼       82       ●         RT025xxHDLR       ▼       83       ●         RT085xxDBWC       ▼       83       ●         RT045xxUBLC       ▼       84       ●         RT015xxVDWC       ▼       84       ●         RT095xxVBWC       ▼       85       ●         RT016xxHBWC       ▼       86       ●         RT036xxHBLU       ▼       86       ●         RT046xxHBWU       ▼       87       ●         RT076xxHBLU       ▼       88       ●         RT206xxHBLU       ▼       88       ●         RT206xxHBLU       ▼       88       ●	RT145xxMBLC	34	79	•				•
RT075xxHBLU       ▼       81       ●         RT205xxHBLU       ▼       81       ●         RT025xxOGLU       ▼       82       ●         RT025xxHDLL       ▼       82       ●         RT025xxHDLR       ▼       83       ●         RT085xxDBWC       ▼       84       ●         RT045xxUBLC       ▼       84       ●         RT015xxVDWC       ▼       84       ●         RT095xxVBWC       ▼       85       ●         RT016xxHBWC       ▼       86       ●         RT036xxHBLU       ▼       86       ●         RT046xxHBWU       ▼       87       ●         RT076xxHBLU       ▼       88       ●         RT206xxHBLU       ▼       88       ●	RT165xxHBNC	34	80	•				•
RT205xxHBLU       ▼       81       ●         RT025xxOGLU       ▼       82       ●         RT025xxHDLL       ▼       82       ●         RT025xxHDLR       ▼       83       ●         RT085xxDBWC       ▼       83       ●         RT045xxUBLC       ▼       84       ●         RT015xxVDWC       ▼       84       ●         RT095xxVBWC       ▼       85       ●         RT016xxHBWC       ▼       86       ●         RT056xxHBLU       ▼       86       ●         RT046xxHBU       ▼       87       ●         RT076xxHBLU       ▼       88       ●         RT206xxHBLU       ▼       88       ●         RT206xxHBLU       ▼       88       ●	RT035xxHBLU	Tu,	80	•				•
RT025xxOGLU       ▼       82       ●         RT025xxHDLL       ▼       82       ●         RT025xxHDLR       ▼       83       ●         RT085xxDBWC       ▼       83       ●         RT045xxUBLC       ▼       84       ●         RT015xxVDWC       ▼       84       ●         RT095xxVBWC       ▼       85       ●         RT016xxHBWC       ▼       86       ●         RT056xxHBLU       ▼       86       ●         RT046xxHBU       ▼       87       ●         RT076xxHBLU       ▼       88       ●         RT206xxHBLU       ▼       88       ●         RT206xxHBLU       ▼       88       ●	RT075xxHBLU	Ţ	81	•				•
RT025xxHDLL       ▼       82       ●         RT025xxHDLR       ▼       83       ●         RT085xxDBWC       ▼       83       ●         RT045xxUBLC       ▼       84       ●         RT015xxVDWC       ▼       84       ●         RT095xxVBWC       ▼       85       ●         RT016xxHBWC       ▼       86       ●         RT056xxHBLU       ▼       86       ●         RT036xxHBLU       ▼       87       ●         RT046xxHBUU       ▼       87       ●         RT076xxHBLU       ▼       88       ●         RT206xxHBLU       ▼       88       ●	RT205xxHBLU	34	81	•				•
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- Approval exists
- O Approval pending

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## Generic specifications

#### Rating of creepage and clearance distances

The creepage and clearance distances of the U|Contact terminal blocks and headers are rated according to EN 60664-1.

Rated voltage, overvoltage category and pollution degree applicable in practice can be determined only after soldering the terminal block or header onto the printed circuit board. Important factors for the rating are the minimum distance of the circuit paths, the relatively low resistance against creepage current of the printed circuit board and the absence of separating ribs.

Since we are unable to influence these factors the insulation data given for all U|Contact terminal blocks and U|Contact headers relate to their independent condition

#### Explanatory notes regarding the determination of Clearance and creepage distances

The standard EN 60664-1 uses the overvoltage category and the pollution degree to determine the Clearance and creepage distances.

The overvoltage category is divided into four subcategories and determines the strength of the rated transient voltage in conjunction with the mains voltage.

The rated transient voltage basically determines the minimum clearance.

Minimum clearances apply to use on location up to a height of 2000 m above sea level.

The pollution degree is divided into four degrees and determines, in combination with insulating material and the shape of the separating ribs, the creepage distance.

#### Overvoltage category according to EN 60664-1 Equipment energized directly from the low-voltage mains

Technical data shall specify the overvoltage category as based on the following general explanation of overvoltage categories (see also IEC 364-4-443):

#### Equipment of overvoltage category I

is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriately low level. Examples are protected electronic circuits.

#### Equipment of overvoltage category II

is energy-consuming equipment to be supplied from the fixed installation. Examples of such equipment are appliances, portable tools and other household and similar loads.

#### Equipment of overvoltage category III

is equipment in fixed installations and for cases where the reliability and the availability of the equipment are subject to special requirements. Examples of such equipment are switches in the fixed installation and equipment for industrial use with permanent connection to the fixed installation.

#### **Equipment of overvoltage category IV**

is for use at the origin of the installation. Examples of such equipment are electricity meters and primary overcurrent protection equipment.

# Degrees of pollution in the micro-environment according to EN 60664-1

The following four degrees of pollution in the micro-environment are established for the purpose of evaluating creepage distances and clearances:

#### Pollution degree 1

No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.

#### Pollution degree 2

Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be expected.

#### Pollution degree 3

Conductive pollution occurs or dry non-conductive pollution occurs which becomes conductive due to condensation which can be expected.

#### Pollution degree 4

The pollution generates continuous conductivity caused by conductive dust or by rain or snow.

#### **Usage temperature**

The usage temperature defines the temperature for the permanent operation of a component without destruction. This temperature is the addition of ambient temperature and the self-warming of the component during operation.

The ambient temperature is the temperature affecting permanently the component without regard to the self-warming of the component.

Temperature limits for product series screw type terminal blocks, ID terminal blocks, headers and accessories as well as spring clamp terminal blocks without lever or push button (i.e. ST061):

max. temperature limit +105 °C min. temperature limit -40 °C

Temperature limits for spring clamp terminal blocks with lever or push button:

max. temperature limit +105 °C min. temperature limit -40 °C





Example for rating work sheets (based on case A) (basic insulation at permanent voltage for equipment up to 2000 m above sea level) according to EN 60664-1.

### Circuits directly connected to the low voltage mains

influence quantity	selection based on	reference to EN 60664-1	value
		<u>'</u>	
	clearance	1	
impulse withstand voltage	overvoltage category of the equipment	table 1	table 2
	creepage distanc	e e	
voltage	Rated voltage [V] or rated insulation voltage	table 3a, 3b	table 4
pollution (influence of humidity)	pollution degree (micro-environment)	section 2.5.1	table 4
insulation material	comparative tracking index	section 2.7.1.3	table 4

- step 1 selection of the overvoltage category
- step 2 selection of the impulse voltage, according to table 1
- step 3 determination of the minimum clearance (cl), according to table 2
- step 4 selection of the Rated voltage for creepage distances according to tables 3a and 3b
- step 5 determination of the pollution degree and the comparative tracking index (CTI)
- step 6 determination of the minimum creepage distance (cr), according to table 4
- step 7 if cr < cl:
  - for pollution degree 3 or 4 the distance on the insulation material is as large as the clearance (cl), according to table 4;
  - for pollution degree 1 or 2 the distance on the insulation material is allowed to be as large as the creepage distance (cr), if this distance withstands the test impulse voltage used to establish the clearance.

## Rated impulse voltage for equipment energized directly from the low-voltage mains Extract of table 1 EN 60664-1

nominal Voltag power supply s according to IEC V	system 1)	Tension cable to neutral cable separated from the nominal alternative or nominal direct current until inclusive			est voltage V ige categoi	
dreiphasig	einphasig	V	I	П	Ш	IV
		50	330	500	800	1500
		100	500	800	1500	2500
	120 - 240	150	800	1500	2500	4000
230/400 277/480		300	1500	2500	4000	6000
400/690		600	2500	4000	6000	8000
1000		1000	4000	6000	8000	12000

note: cf. details EN 60664-1:2003





## Minimum clearances for insulation coordination Extract of table EN 60664-1

		learances up t ove sea level	o
Rated impulse with stand- voltage	Case A in homogeneous field condition		
	Pollution de	aree	
	1	. 2	. 3
kV	mm	mm	mm
0,33	0,01		
0,40	0,02		
0,50	0,04		
0,60	0,06	0,20	0,80
0,80	0,10		
1,00	0,15		
1,20	0,25	0,25	
1,50	0,50	0,50	
2,00	1,00	1,00	1,00
2,50	1,50	1,50	1,50
3,00	2,00	2,00	2,00
4,00	3,00	3,00	3,00
5,00	4,00	4,00	4,00
6,00	5,50	5,50	5,50
8,00	8,00	8,00	8,00
10,00	11,00	11,00	11,00
12,00	14,00	14,00	14,00
15,00	18,00	18,00	18,00
20,00	25,00	25,00	25,00
25,00	33,00	33,00	33,00
30,00	40,00	40,00	40,00
40,00	60,00	60,00	60,00
50,00	75,00	75,00	75,00
60,00	90,00	90,00	90,00
80,00	130,00	130,00	130,00
100,00	170,00	170,00	170,00

note: cf. details EN 60664-1:2003



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## Extract from table 3a: single phase three- or two-wire a.c. or d.c. systems EN 60664-1

	Voltages rationalized for table	2 4
Nominal voltage of the supply system*	for insulation line-to-line <sup>1)</sup>	for insulation line-to-earth <sup>1)</sup>
	all systems	three-wire systems mid-point earthed
V	V	V
12.5	12.5	
24 25	25	
30	32	
42 48 50**	50	
60	63	
30-60	63	32
100**	100	
110 120	125	
150**	160	
220	250	
110-220 120-240	250	125
300**	320	
220-440	500	250
600**	630	
480-960	1000	500
1000**	1000	

<sup>1)</sup> Line-to-earth insulation level for unearthed or impedance-earthed systems equals that for line-to-line because the operating voltage to earth of any line can, in practice, approach full line-to-line voltage. This is because the actual voltage to earth is determined by the insulation resistance and capacitive reactance of each line to earth; thus, low (but acceptable) insulation resistance of one line can in effect earth it and raise the other two to full line-to-line voltage to earth.



<sup>\*</sup> For relationship to Rated voltage see 2.2.1.(+)

<sup>\*\*</sup> These values correspond to the values given in table 1 (Rated impulse voltage for equipment energized directly from the low-voltage mains).



## Extract of table 3b: three-phase four- or three-wire a.c. systems EN 60664-1

N I. Ir	Voltages rationaliz	nalized for table 4			
Nominal voltage of the supply system	for insulation line-to-line				
	all systems	three-phase four-wire systems neutral-earthed <sup>2)</sup>	three-phase three-wire system unearthed <sup>1)</sup> or corner-earthed		
V	V	V	V		
60	63	32	63		
110 120 127	125	80	125		
150**	160		160		
208	200	125	200		
220 230 230	250	160	250		
300**	320		320		
380 400 415	400	250	400		
440	500	250	500		
480 500	500	320	500		
575	630	400	630		
600**	630		630		
660 690	630	400	630		
720 830	800	500	800		
960	1000	630	1000		
1000**	1000		1000		

- 1) Line-to-earth insulation level for unearthed or impedance-earthed systems equals that for line-to-line because the operating voltage to earth of any line can, in practice, approach full line-to-line voltage. This is because the actual voltage to earth is determined by the insulation resistance and capacitive reactance of each line to earth; thus, low (but acceptable) insulation resistance of one line can in effect earth it and raise the other two to full line-to-line voltage to earth.
- 2) For equipment for use on both three-phase four-wire and three-phase three-wire supplies, earthed and unearthed, use the values for three-wire systems only.
- \* For relationship to Rated voltage see 2.2.1.(+)
- \*\* These values correspond to the values given in table 1 (Rated impulse voltage for equipment energized directly from the low-voltage mains).



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## Minimum creepage distances to avoide failure caused by tracking Extract of table 4 DIN EN 60664-1

	Minimal cre	epage distanc	es	ı			ı		
Voltage¹) r.m.s. value	Printed of Pollution		Pollution degree	Pollution degree		Pollution degree			
	1	2	1		2			3	
V	All insulation material groups mm	All insulation material groups except IIIb3 mm	All insulation material groups mm	Insulation I	on materia   II   mm	l group III mm	Insulatio I mm	n material   II   mm	group III <sup>2)</sup> mm
10	0,025	0,040	0,080	0,400	0,400	0,400	1,000	1,000	1,000
12,5	0,025	0,040	0,090	0,420	0,420	0,420	1,050	1,050	1,050
16	0,025	0,040	0,100	0,450	0,450	0,450	1,100	1,100	1,100
20	0,025	0,040	0,110	0,480	0,480	0,480	1,200	1,200	1,200
25	0,025	0,040	0,125	0,500	0,500	0,500	1,250	1,250	1,250
32	0,025	0,040	0,140	0,530	0,530	0,530	1,300	1,300	1,300
40	0,025	0,040	0,160	0,560	0,800	1,100	1,400	1,600	1,800
50	0,025	0,040	0,180	0,600	0,850	1,200	1,500	1,700	1,900
63	0,040	0,063	0,200	0,630	0,900	1,250	1,600	1,800	2,000
80	0,063	0,100	0,220	0,670	0,950	1,300	1,700	1,900	2,100
100	0,100	0,160	0,250	0,710	1,000	1,400	1,800	2,000	2,200
125	0,160	0,250	0,280	0,750	1,050	1,500	1,900	2,100	2,400
160	0,250	0,400	0,320	0,800	1,100	1,600	2,000	2,200	2,500
200	0,400	0,630	0,420	1,000	1,400	2,000	2,500	2,800	3,200
250	0,560	1,000	0,560	1,250	1,800	2,500	3,200	3,600	4,000
320	0,750	1,600	0,750	1,600	2,200	3,200	4,000	4,500	5,000
400	1,000	2,000	1,000	2,000	2,800	4,000	5,000	5,600	6,300
500	1,300	2,500	1,300	2,500	3,600	5,000	6,300	7,100	8,000
630	1,800	3,200	1,800	3,200	4,500	6,300	8,000	9,000	10,000
800	2,400	4,000	2,400	4,000	5,600	8,000	10,000	11,000	12,500
1000	3,200	5,000	3,200	5,000	7,100	10,000	12,500	14,000	16,000

- 1) This voltage is
  - for functional isolation: the working voltage;
  - for basic and supplementary insulation of the circuit energized directly from the low-voltage mains: the rationalized voltage based on the rated voltage of the equipment, or the rated insulation voltage;
  - for basic or supplementary insulation of systems, equipment and internal circuits not energized directly from the low-voltage mains: the highest r.m.s. voltage which can occur in the system, equipment or internal circuit when supplied at Rated voltage, and under the most onerous combination of conditions of operating within equipment rating.
- 2) insulation material group IIIb is not recommended for pollution degree 3 above 630 V

Note: For details see DIN EN 60664-1:2007





## **Generic specifications**

## **Current carrying capacity**

The maximum current carrying capacity (rated current) is indicated in the technical data of each terminal block. It considers the heating limit indicated in EN 60998-1. According to this standard the self-heating of current carrying parts of the termination point shall not exceed 45 K. In case of insulated conductors, the heating of a conductor has to be measured as near as possible to the termination point in the terminal block.

Termination has to be done with rigid or flexible conductors of the biggest cross section that the wire entry is designed for. The connecting material is charged with alternate current according to table 2 during the whole test

rated wire cross section	test current
mm²	Α
0.5	6
0.75	9
1	13.5
1.5	17.5
2.5	24
4	32
6	41
10	57
16	76
25	101
35	125

The current carrying capacity also depends on the use of the terminal block or connector. It is also necessary to consider the respective directives for appliances such as EN 60335-1, EN 60598-1, EN 60664 etc.

#### **Rated current**

is the value of current that a plug-in connector or coupler can carry continuously (not intermittently) and simultaneously through all contacts without exceeding the upper temperature limit.

The determination of the rated current value according to DIN VDE / IEC is different than according to UL.

## Rated voltage

is the value of voltage according to which plug-in connectors and couplers are rated and to which certain operation characteristics are referred.

#### Wire cross section

The wire cross section for printed circuit board connectors and couplers as well as the admissible wire size range is defined according to IEC 60939-1 and given in the technical data of each series.

The contacts of RIA printed circuit board connectors and couplers are designed to allow termination of copper wires without special preparation. The use of wire ferrules is not necessary, but can prevent wire strands from separating.

#### Note

Conductors with soldered single wires are not allowed for connection to screw type terminal blocks, due to the cold flow of tin.

## Screw type terminal blocks / Spring clamp terminal blocks pluggable terminal blocks

No current should be applied when terminal blocks are plugged or wired. Empirical values are available on demand if small currents are necessary for operational reasons.

## Copper conductors according to EN 60228

#### Single wire

Wire diameter = 1.78 mm Number of wires = 1 Conductor dia. max. = 1.9 mm

Conductor dia. max. = 1.9 mm Nominal cross section = 2.5 mm<sup>2</sup>



### Multi-wire

Wire diameter = 0.67 mm Number of wires = 7 Conductor dia. max. = 2.2 mm Nominal cross section = 2.5 mm²



### Fine stranded

Wire diameter = 0.26 mm Number of wires = 45 Conductor dia. max. = 2.3 mm

Nominal cross section = 2.5 mm<sup>2</sup>



#### Ultra-fine stranded

Wire diameter = 0.16 mm Number of wires = 120 Conductor dia. max. = 2.3 mm

Nominal cross section = 2.5 mm<sup>2</sup>





METZ



Structure and dimensions of conductors

accordir	ng to DIN \	/DE 0295/1	992-06 (II	EC 60228)				Americar	n Wire Ga	uge (AW	(G)	
nominal cross section	single wire	multi-v	wire min. no. of wires	fine and fine stra			solic	l wire		stra	anded wire	e
mm²	max. dia. mm	max. dia. mm		max. dia. mm		AWG no.	dia. mm	circ. mil	mm²	dia. mm	circ. mil	mm²
0.5	0.9	1.1	7	1.1	15	20	0.81	1020	0.52	0.97	1111	0.56
0.75	1.0	1.2	7	1.3	22	18	1.02	1620	0.82	1.16	1600	0.82
1	1.2	1.4	7	1.5	29	(17)	1.15	2050	1.04			
-		-	-	-	-	16	1.29	2580	1.31	1.50	2580	1.32
1.5	1.5	1.7	7	1.8	29	(15)	1.45	3260	1.65			
-		-	-	-	-	14	1.63	4110	2.08	1.85	4100	2.09
2.5	1.9	2.2	7	2.3	47	(13)	1.83	5180	2.63			
-		-	-	-	-	12	2.05	6530	3.31	2.41	6500	3.32
4	2.4	2.7	7	2.9	53	(11)	2.3	8230	4.17			
-		-	-	-	-	10	2.59	10400	5.26	2.95	10530	5.37
6	2.9	3.3	7	3.9	80	(9)	2.91	13100	6.63			
-		-	-	-	-	8	3.26	16500	8.37	3.37	16625	8.48

## **Protection against manual contact**

The design of the insulating moulds provides that voltage carrying parts are contained inside the mould after termination of a wire with nominal cross section. This ensures adequate protection against accidental contact by the test finger according to EN 60529.

Exceptions are terminal blocks RT015xxHDWC, RP015xxWBWC, RT015xxHDWU, RT016xxHBWU, RT015xxVDWC, RT034xxHBLC and single terminal blocks.

It is required that live components are protected against accidental contact by fingers within a protection area with a 30 mm radius. This means that hazardous parts of an electric device cannot be touched by the straight test finger according to EN 60529.

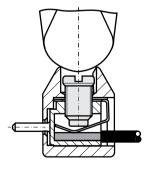
#### **Insulation moulds**

The insulation moulds are made of Polyamide. This material is self-extinguishing according to UL 94V-0, flexible and unbreakable up to -40°C. Its stability under continuous temperature is rated up to 125° C, and up to 185° C for short periods. The melting point is situated between 215° C and 295° C depending on the material type (PA 4.6, 6, 6.6).

It is highly weatherproof due to special ultra-violet stabilisation and highly resistant to micro-organisms, bacteria, fungi, enzymes and termites. Both features provide good stability under tropical conditions.

The material is not resistant to strong acids with concentrations over 90 % such as formic acid or to phenol or superheated steam.

## **Test finger arrangement**



Testing is done with a terminated conductor of nominal cross section.





## **Generic specifications**

#### **Approvals**

Our current approvals are shown in the product summary, the type and approval index and for each product throughout the catalog.

## Note to technical data

Values according to UL (USA)

300 / 20 / 22 - 12 V/A/AWG

Values according to CSA (Canada)

(SP) V / A / AWG 300 / 20 / 22 - 12



UL (Canada) (USA)



UL (USA) Voltage V Current A

American Wire Gauge AWG

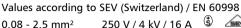




SEV (Switzerland)

0.08 - 2.5 mm<sup>2</sup>

250 V / 4 kV / 16 A 🕏 🛳



*2*7.

Rated cross section in mm<sup>2</sup>

Rated voltage in V Rated test voltage in kV Rated current in A



**CSA** (Canada)

Our termination products are approved by SEV and controlled according to the CCA-NTR procedure.

SEV means: Schweizer Elektrotechnischer Verein (Electrotechnical Association of Switzerland)

it is now called Electrosuisse

CCA means: **CENELEC Certification Agreement** 

(including factory inspections / process and product inspection)

NTR means: National Test Report

**CENELEC** means: European committee for electrotechnical standardization

UL means: Underwriters Laboratories Inc. CSA means: Canadian Standards Association

Applied test standards: DIN EN 60998-2-1

Particular requirements for connecting devices as separate entities with screw-type

clamping units DIN EN 60998-2-2

Particular requirements for connecting devices as separate entities with

screwless-type clamping units

DIN EN 60998-2-3

Particular requirements for connecting devices as separate entities with

insulation-piercing clamping units

DIN EN 60999-1

Connecting devices - Electrical copper conductors - Safety requirements for screw-type

and screwless-type clamping units

**DIN EN 61984** 

Connectors - Safety requirements and tests

UL 1059

Standard for Safety; Terminal Blocks

Standard for Equipment Wiring Terminals for Use with Aluminum and/or Copper

Conductors

UL 1977

Standard for Safety; Component Connectors for Use in Data, Signal, Control and Power

Applications

CSA C22.2 No. 158

Standard for Terminal Blocks





## **Generic specifications**

### European agencies for testing and approvals

The following table gives a summary of the European agencies for testing and approvals that have joined one or several of the programs for mutual acceptance of test results and approvals.

	Agency		tance of esults
	NCB	СВ	CCA
		IEC standards	EN standards harmonisation documents
European Uni	on		
Belgium	CEBEC	X	X
Germany	- VDE-PZI - TÜV-Rhein- land	X X	X
	- TÜV-PS	X	
Denmark	DEMKO	X	×
Finland	FIMKO	X	×
France	LCIE	X	×
Greece	ELOT	X	x
Great Britain	- ASTA	X	×
	- BEAB - BASEC	X X	X X
	- BASEC - BSI	X	l â
Ireland	NSAI	X	×
Italy	IMQ	X	×
Luxemburg	SEE		×
Netherlands	KEMA	X	×
Austria	ÖVE	X	X
Portugal	IPQ		×
Sweden	SEMKO	X	×
Spain	AENOR	X	×

	Agency	Acceptance of test results		
	NCB	СВ	CCA	
		IEC standards	EN standards harmonisation documents	
EFTA countrie	es			
Iceland	RER		X	
Norway	SEMKO	Х	X	
Switzerland	SEV	Х	X	
other countrie	s			
Poland	PCBC	Х		
Slovakia	EVPU	×	X	
Slovenia	SIQ	X	×	
Czechia	EZU	X	×	
Russia	GOST-R	X		
Ukraine	Der Standart	Х		

## **Explanations:**

IEC: International Electrotechnical Commission

NCB: National Certification Body - IEC - accredited national test and approval agency

CB: participation in the CB procedure: acceptance of test results based on IEC standards

CCA: participation in the CCA procedure: acceptance of test results based on European Standards (EN) and documents for harmonisation (HD)



METZ CONNECT

Notes



METZ CONNECT

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310692	RT049xxMBWC	95
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310712	RT029xxHBLC	96
310721	RT025xxHBLU	78
310731	RT026xxHBLU	89
310771	RP025xxIBWU	108
310791	RP026xxIBWU	118
310831	RT046xxHBWU	87
310861	RT034xxHBLC	74
310891		197
	FT143xxVBFC	
310921	RT075xxHBLU	81
310931	RT076xxHBLU	88
310941	RT035xxHBLU	80
310951	RT036xxHBLU	87
310961	RT205xxHBLU	81
310971	RT206xxHBLU	88
311011	RT016xxHBWC	86
311051	RT083xxDBWC	71
311071	RP025xxHBWC	109
311081	RP025xxMBWC	109
311131	RP034xxHBLO	106
311141	RP034xxHBLN	106
311371	RP025xxIBLC	110
311471	RT095xxVBWC	85
311472	RT099xxVBWC	98
		111
311571	RP095xxRBWC	
311571XX-002730	RP095xxBBWC	111
311571XX-002740	RP095xxHBWC	112
311631	RT016xxVBWC	89
311632	RT01AxxVBWC	99
311651	RP023xxHBNF	100
311661	RP023xxHBWC	100
311691	RP013xxVBWN	105
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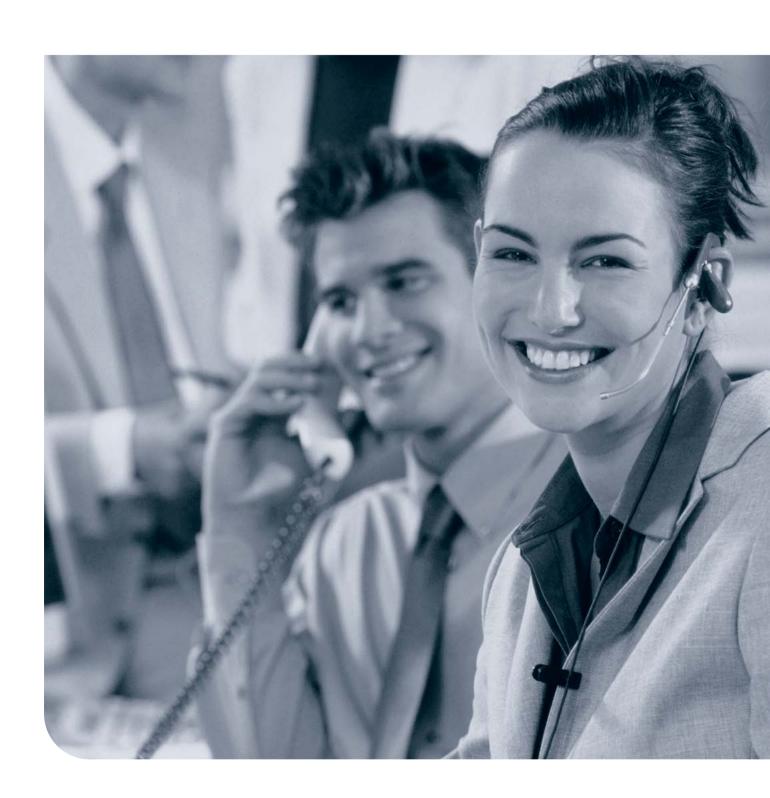
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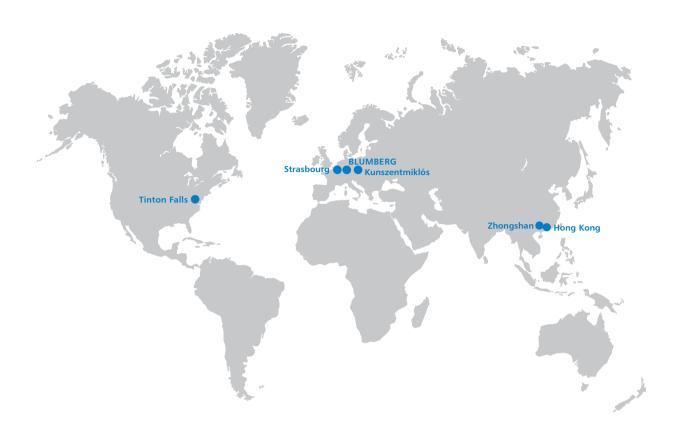
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## METZ CONNECT worldwide



### **SALES OFFICES**

## METZ CONNECT USA Inc.

200 Tornillo Way Tinton Falls, NJ 07712 USA

Phone +1 732 389 1300 Fax +1 732 389 9066 www.metz-connect.com



## METZ CONNECT France SAS

28, Rue Schweighaeuser 67000 Strasbourg France

Phone +33 3 886 170 73 Fax +33 3 886 194 73

www.metz-connect.com

## **METZ CONNECT GmbH**

lm Tal 2 78176 Blumberg Germany

Phone +49 7702 533-0 Fax +49 7702 533-189

www.metz-connect.com



## METZ CONNECT Zhongshan Ltd.

Ping Chang Road Ping Pu Industrial Park Sanxiang Town Zhongshan City, 528463 Guangdong Province China

Phone +86 760 86365 055 Fax +86 760 86365 050

www.metz-connect.com



## METZ CONNECT Asia Pacific Limited

Suite 1803, 18/F, Chinachem Hollywood Centre 1 Hollywood Road Central Hong Kong

Phone +852 26 027 300 Fax +852 27 257 522 www.metz-connect.com

## PRODUCTION SITES

## METZ CONNECT TECH GmbH

Ottilienweg 9 78176 Blumberg Germany

Phone +49 77 02 533-0 Fax +49 77 02 533-433 www.metz-connect.com



### MC Termelő Kft.

Vásár tér 16/A 6090 Kunszentmiklós Hungary Phone +36 76 350524



## METZ CONNECT Zhongshan Ltd.

Ping Chang Road Ping Pu Industrial Park Sanxiang Town Zhongshan City, 528463 Guangdong Province China



Phone +86 760 86365055 Fax +86 760 86365050 www.metz-connect.com

## Contact

## **Contacts**

You will find your responsible contacts for your sector in your region at our website: http://www.metz-connect.com/en/contact-search

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### **METZ CONNECT GmbH**

Im Tal 2 78176 Blumberg Germany

Phone +49 7702 533-0 Fax +49 7702 533-189

info@metz-connect.com www.metz-connect.com



RIA CONNECT BTR NETCOM

## METZ CONNECT USA Inc.

200 Tornillo Way Tinton Falls, NJ 07712 USA

Phone +1-732-389-1300 Fax +1-732-389-9066

### METZ CONNECT France SAS

28, Rue Schweighaeuser 67000 Strasbourg France

Phone +33 3886 17073 Fax +33 3886 19473

## METZ CONNECT Zhongshan Ltd.

Ping Chang Road Ping Pu Industrial Park Sanxiang Town Zhongshan City, 528463 Guangdong Province China

Phone +86 760 86365 055 Fax +86 760 86365 050

## METZ CONNECT Asia Pacific Ltd.

Suite 1803, 18/F Chinachem Hollywood Centre, 1 Hollywood Road, Central Hong Kong

Phone +852 26 027 300 Fax +852 27 257 522



