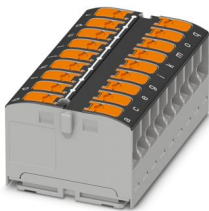


# PTVFIX 18X2,5 BK - Distribution block



1019581  
<https://www.phoenixcontact.com/us/products/1019581>

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Distribution block, nom. voltage: 450 V, nominal current: 24 A, number of connections: 18, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: black

## Your advantages

- Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- Clear wiring, thanks to eleven different color variants
- Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- Time savings of up to 80 %, thanks to ready-to-mount blocks without manual bridging
- Space savings of up to 50 % on the DIN rail, thanks to transverse mounting

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1019581       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | BE09          |
| Product key                          | BEA215        |
| GTIN                                 | 4055626506562 |
| Weight per piece (including packing) | 28.17 g       |
| Weight per piece (excluding packing) | 24.869 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                            |
|-----------------------|----------------------------|
| Product type          | Distributor terminal block |
| Number of positions   | 1                          |
| Number of connections | 18                         |
| Number of rows        | 1                          |
| Potentials            | 1                          |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 02 |
|------------------|----|

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

|                                                                   |                                                                                 |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Number of connections per level                                   | 18                                                                              |
| Nominal cross section                                             | 2.5 mm <sup>2</sup>                                                             |
| Stripping length                                                  | 8 mm ... 10 mm                                                                  |
| Internal cylindrical gage                                         | A3<br>B3                                                                        |
| Connection in acc. with standard                                  | IEC 60998-2-2                                                                   |
| Conductor cross section rigid                                     | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                      |
| Cross section AWG                                                 | 26 ... 12 (converted acc. to IEC)                                               |
| Conductor cross section flexible                                  | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                    |
| Conductor cross section, flexible [AWG]                           | 26 ... 14 (converted acc. to IEC)                                               |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                    |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                    |
| Nominal current                                                   | 24 A                                                                            |
| Maximum load current                                              | 32 A (with 4 mm <sup>2</sup> conductor cross-section)                           |
| Maximum total current                                             | The maximum load current of the individual terminal point must not be exceeded. |
| Nominal voltage                                                   | 450 V                                                                           |
| Nominal cross section                                             | 2.5 mm <sup>2</sup>                                                             |

### Connection cross sections directly pluggable

|                                                                   |                                              |
|-------------------------------------------------------------------|----------------------------------------------|
| Conductor cross section rigid                                     | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>    |
| Conductor cross section, rigid [AWG]                              | 20 ... 12 (converted acc. to IEC)            |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |

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## Dimensions

|        |         |
|--------|---------|
| Width  | 46.6 mm |
| Height | 28.6 mm |
| Depth  | 21.7 mm |

## Material specifications

|                                                                         |                  |
|-------------------------------------------------------------------------|------------------|
| Color                                                                   | black (RAL 9005) |
| Flammability rating according to UL 94                                  | V0               |
| Insulating material group                                               | I                |
| Insulating material                                                     | PA               |
| Static insulating material application in cold                          | -60 °C           |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C           |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C           |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)                                                     |
| Ambient temperature (assembly)           | -5 °C ... 70 °C                                                                                                              |
| Ambient temperature (actuation)          | -5 °C ... 70 °C                                                                                                              |
| Permissible humidity (operation)         | 20 % ... 90 %                                                                                                                |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                                                                                |

## Standards and regulations

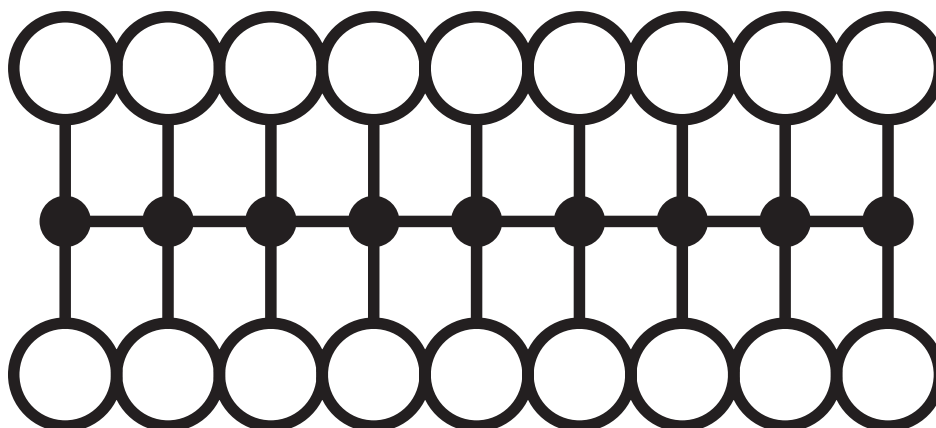
|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60998-2-2 |
|----------------------------------|---------------|

## Mounting

|               |                                      |
|---------------|--------------------------------------|
| Mounting type | for snapping onto a DIN rail adapter |
|               | Direct mounting with flange          |
|               | Free-hanging                         |

## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1019581>

|  <b>CSA</b><br>Approval ID: 158887 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                     | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                         |                       |                       |                   |                             |
|                                                                                                                     | 300 V                 | 20 A                  | 26 - 12           | -                           |
| Use group C                                                                                                         |                       |                       |                   |                             |
|                                                                                                                     | 300 V                 | 20 A                  | 26 - 12           | -                           |
| Use group D                                                                                                         |                       |                       |                   |                             |
|                                                                                                                     | 600 V                 | 5 A                   | 26 - 12           | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                  | 300 V                 | 20 A                  | 26 - 12           | -                           |
| Use group C                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                  | 300 V                 | 20 A                  | 26 - 12           | -                           |
| Use group F                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                  | 500 V                 | 20 A                  | 26 - 12           | -                           |
| Use group D                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                  | 600 V                 | 5 A                   | 26 - 12           | -                           |

| <b>DNV</b><br>Approval ID: TAE00004R4 |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250118 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000897 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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