

# PRC 20/5-C1-FT25-FS2,5 - Device connector front mounting



1308652

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Device connector front mounting, Range of articles: PRC 20, color: black/red, number of positions: 5, min. conductor cross-section: 0.5 mm<sup>2</sup>, max. conductor cross-section: 2.5 mm<sup>2</sup>, rated voltage: 400 V, rated current: 20 A, Connection method: Screw connection, For assembly notes, please refer to the packing slip, scope: AC

## Your advantages

- More space on the device front with current transmission up to 20 A in a minimum amount of space
- Duo-Unlock technology for greater flexibility during installation and maintenance
- Reliable use under extreme ambient conditions with high degrees of protection and impact resistance
- Simple handling with proven crimp or screw connection technology
- Mechanical and color coding for quick and error-free startup

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1308652       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB03          |
| Product key                          | ABLHBA        |
| GTIN                                 | 4063151558673 |
| Weight per piece (including packing) | 45.5 g        |
| Weight per piece (excluding packing) | 33.627 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

### Notes

|                     |  |
|---------------------|--|
| Note on application | For assembly notes, please refer to the packing slip |
|---------------------|--|

### Product properties

|                     |                    |
|---------------------|--------------------|
| Product type        | Panel feed-through |
| Product family      | PRC 20             |
| Area of application | AC                 |
| Number of positions | 5                  |
| Connection profile  | 4+PE               |
| Coding              | 5-C1               |

### Insulation characteristics

|                  |                      |
|------------------|----------------------|
| Protection class | II (plastic housing) |
|------------------|----------------------|

### Dimensions

|                     |         |
|---------------------|---------|
| Dimensional drawing |         |
| Width               | 34 mm   |
| Height              | 38.4 mm |
| Length              | 52 mm   |

### Electrical properties

|                     |  |
|---------------------|--|
| Nominal voltage ATD | 400 V (III/2.00) in accordance with IEC 61984  |
|                     | 400 V AC (III/2.00) in accordance with IEC 61535                                     |
|                     | 600 V AC / DC (III/2.00) in accordance with UL 2238 / UL 2237                        |
|                     | 500 V DC (III/2.00) in accordance with IEC 61535                                     |
| Rated current       | 20 A (With 2.5 mm <sup>2</sup> conductor cross-section in accordance with IEC 61984) |
|                     | 20 A (With 2.5 mm <sup>2</sup> conductor cross-section in accordance with IEC 61535) |
|                     | 20 A (With 2.5 mm <sup>2</sup> /AWG 14, in accordance with UL 2238)                  |
|                     | 20 A (With 2.5 mm <sup>2</sup> /AWG 14, in accordance with UL 2237)                  |

### Mechanical properties

#### Mechanical data

|                             |  |
|-----------------------------|--|
| Insertion/withdrawal cycles | 500 (Test specification: IEC 60512-13-2) |
|-----------------------------|--|

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## Material specifications

|  |   |
|--|---|
| Color (Housing)                        | black (RAL 9005)                        |
| Material Housing                       | PPE                                     |
| Material Contact carrier               | PPE                                     |
| Material Contact                       | CuZn (Contact material, Pb < 0.1)       |
| Material Cable gland                   | PPE (Nut)                               |
| Material Seal                          | EPDM (Cable seal)<br>EPDM (Flat gasket) |
| Flammability rating according to UL 94 | V0                                      |

## Cable/line

|   |   |
|---|---|
| Single wire, cross section              | 0.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>                 |
| Stripping length of the individual wire | 10 mm   |
| Halogen-free                            | yes (in accordance with IEC 61249-2-21:2003- 11 Cl.3.1) |

## Environmental and real-life conditions

### Ambient conditions

|   |                                     |
|---|-------------------------------------|
| Degree of protection                    | IP66<br>IP68 (2 m / 2 h)<br>IP69    |
| Category of shock impact                | IK08 (-25°C)                        |
| Ambient temperature (operation)         | -40 °C ... 85 °C (observe derating) |
| Ambient temperature (storage/transport) | -40 °C ... 75 °C                    |
| Ambient temperature (assembly)          | -5 °C ... 85 °C                     |

## Standards and regulations

|                          |  |
|--------------------------|--|
| Standards/specifications | IEC 61984:2008<br>IEC 61535:2019<br>UL 2238<br>UL 2237 |
|--------------------------|--|

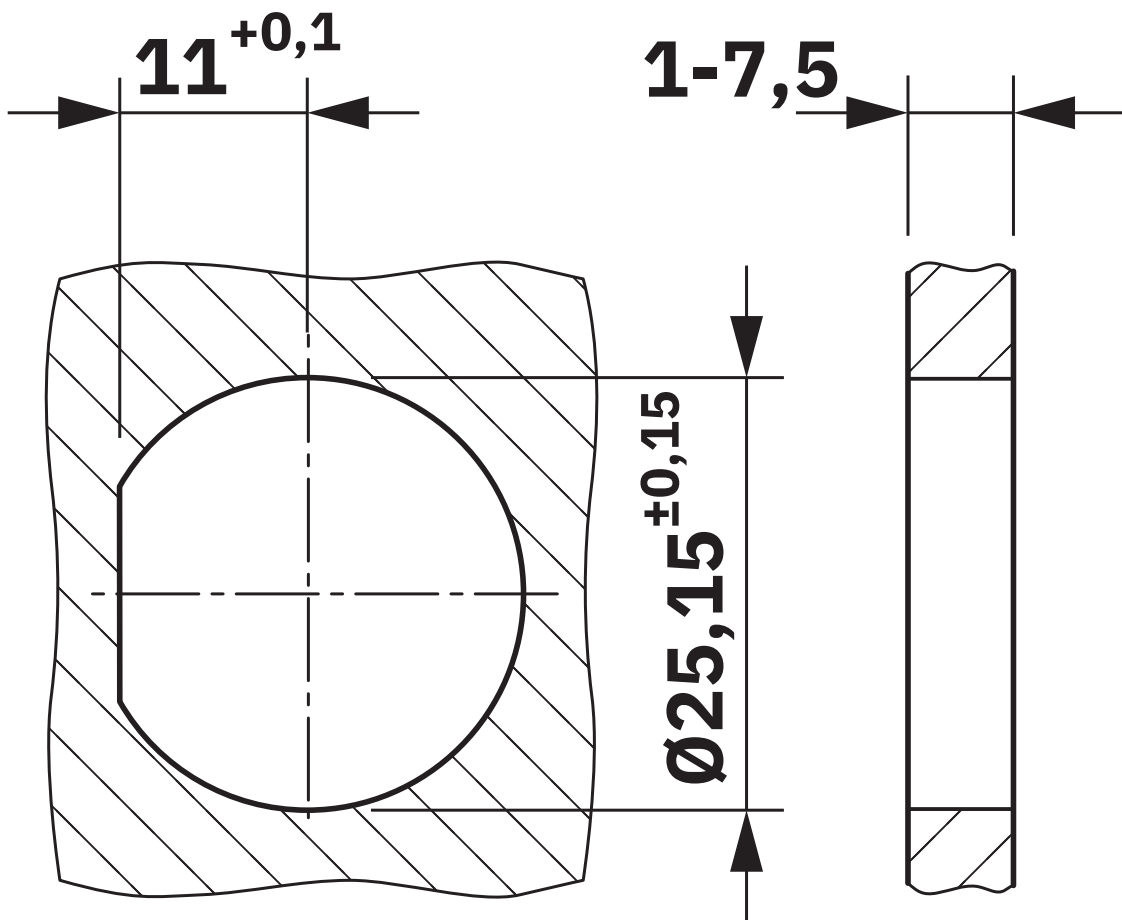
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## Drawings

Dimensional drawing

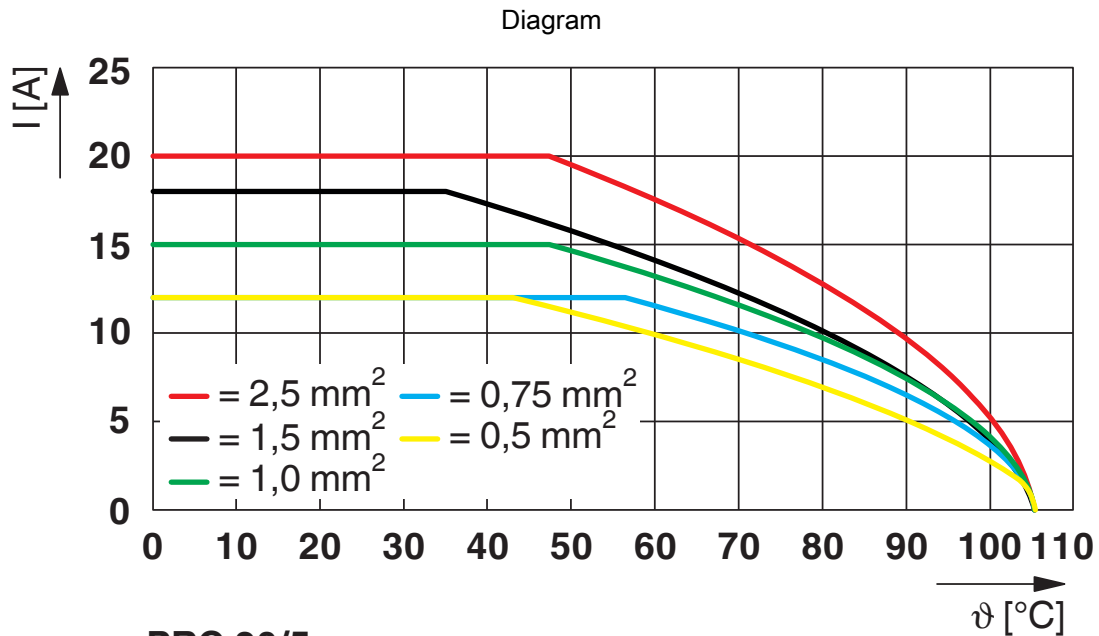


# PRC 20/5-C1-FT25-FS2,5 - Device connector front mounting

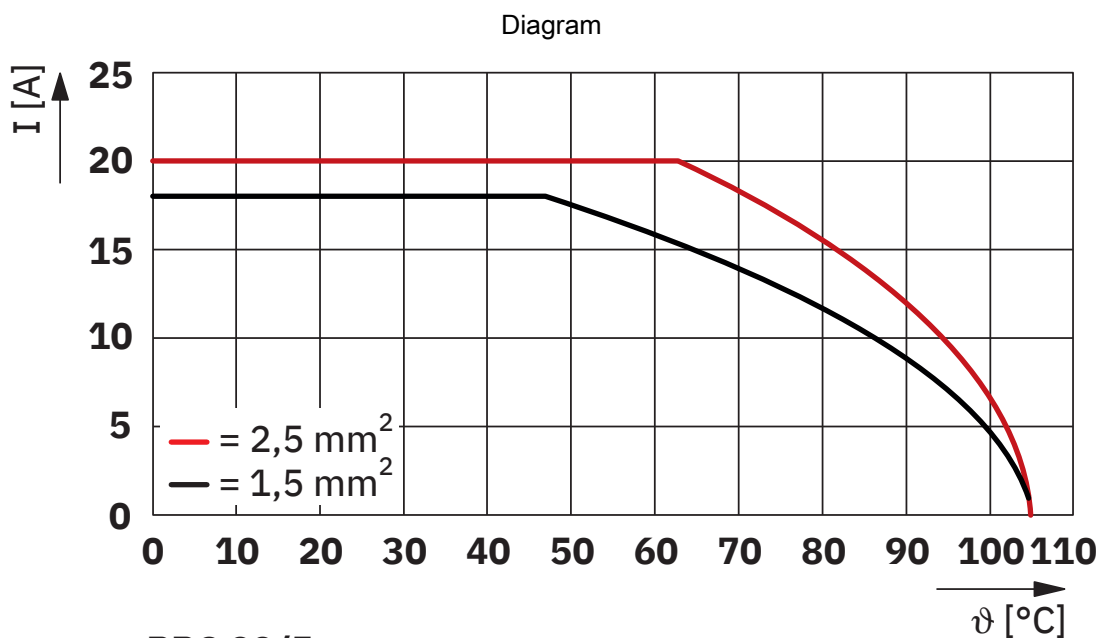


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Derating



Derating

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1308652>

|  <b>UL Listed</b><br>Approval ID: E221474-20240312 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 600 V                 | 20 A                  | 20 - 14           | 20 - 14                     |

|  <b>cUL Listed</b><br>Approval ID: E221474-20240312 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 600 V                 | 20 A                  | 20 - 14           | -                           |

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 334664-TL3-1 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 500 V                 | 20 A                  | -                 | 0.5 - 2.5                   |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440602 |
| ECLASS-15.0 | 27440602 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002566 |
|-----------|----------|

### 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.) | Triphenyl phosphate(CAS: 115-86-6)   |
| SCIP                                | a1277308-f03c-43b3-b408-799b30cb8777 |

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