

IPD WD 3P2,5 1,0 M20 BK - Panel feed-through



1047353

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Panel feed-through, Direct connection, connection method: Single wires/ Push-in connection, number of positions: 2+PE, M20, 0.5 mm² ... 2.5 mm², 450 V, 16 A, PA, black, external cable diameter: 6 mm ... 9 mm and 8 mm ... 13 mm, cable length: 1 m

Your advantages

- Convenient: quick and easy assembly without special tools
- Fast and easy startup, thanks to tool-free Push-in connection technology
- Reliable installation in harsh environments with IP66, IP68, and IP69K throughout the entire system

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1047353 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF51 |
| Product key | AF6IAB |
| GTIN | 4055626644370 |
| Weight per piece (including packing) | 147.1 g |
| Weight per piece (excluding packing) | 146.3 g |
| Customs tariff number | 85366990 |
| Country of origin | CN |

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Technical data

Product properties

| | |
|---------------------|--------------------|
| Product type | Panel feed-through |
| Product family | IPD |
| Number of positions | 3 |
| Connection profile | 2+PE |
| Position marking | L, N, PE |

Insulation characteristics

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

Connection data

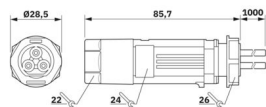
Connection technology

| | |
|---|--------------------|
| Connection method On the device side | Single wires |
| Connection method On the field side | Push-in connection |
| Frequency of connections between conductors of the same cross section | max. 10 |

Conductor connection

| | |
|--------------------------------------|---|
| Conductor cross-section flexibel | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross-section solid | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross-section with ferrule | 0.5 mm ² ... 2.5 mm ² |
| Connection cross section AWG | 20 ... 14 |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 28.6 mm |
| Length | 85.7 mm |

Electrical properties

| | |
|--------------------------------|-------------------------|
| Rated surge voltage (III/3) | 6 kV |
| Rated current | 16 A |
| Rated voltage (III/3) | 450 V |
| Nominal voltage U _N | 450 V AC |
| | 450 V DC |
| Nominal current I _N | 16 A (observe derating) |

Mechanical properties

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Mechanical data

| | |
|-----------------------------|----|
| Insertion/withdrawal cycles | 10 |
|-----------------------------|----|

Material specifications

| | |
|--------------------------|------------------------------|
| Color (Housing) | black (RAL 9005) |
| Material Housing | PA |
| Material Seal | NBR (Field) EPDM (Device) |
| Contact material | Cu |
| Contact surface material | Ni/Sn |

Cable/line

| | |
|---|---------------------------------|
| Cable length | 1 m |
| External cable diameter | 6 mm ... 9 mm 8 mm ... 13 mm |
| Stripping length of the individual wire | 10 mm |
| Position marking | L, N, PE |
| Single wire, color | brown, blue, green/yellow |
| Halogen-free | no |

Mounting

| | |
|---------------|--------------------|
| Mounting type | Front mounting M20 |
|---------------|--------------------|

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------------------------|
| Degree of protection | IP66 IP68 (2 m / 24 h) IP69K |
| Impact strength | IK07 |
| Ambient temperature (operation) | -40 °C ... 90 °C (T = 45 °C) |
| Temperature when conductor connected | -5 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 90 °C |
| Resistance to UV radiation | yes |

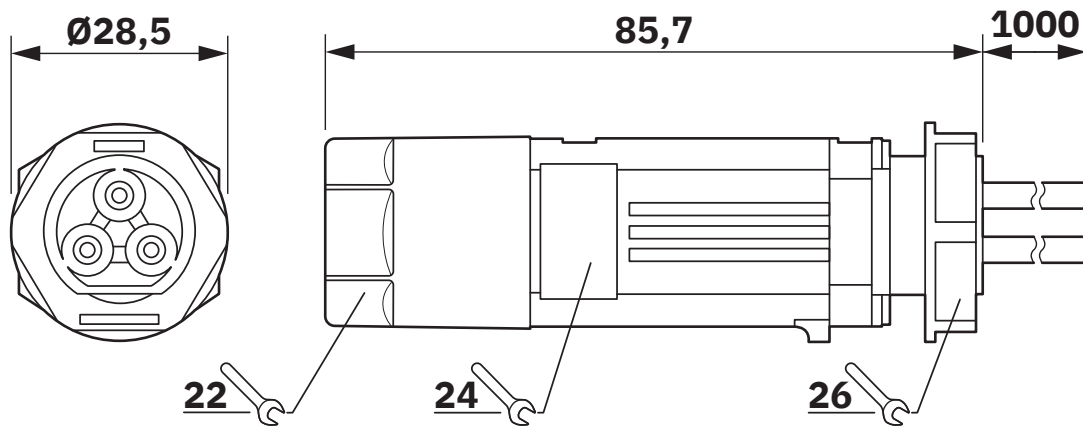
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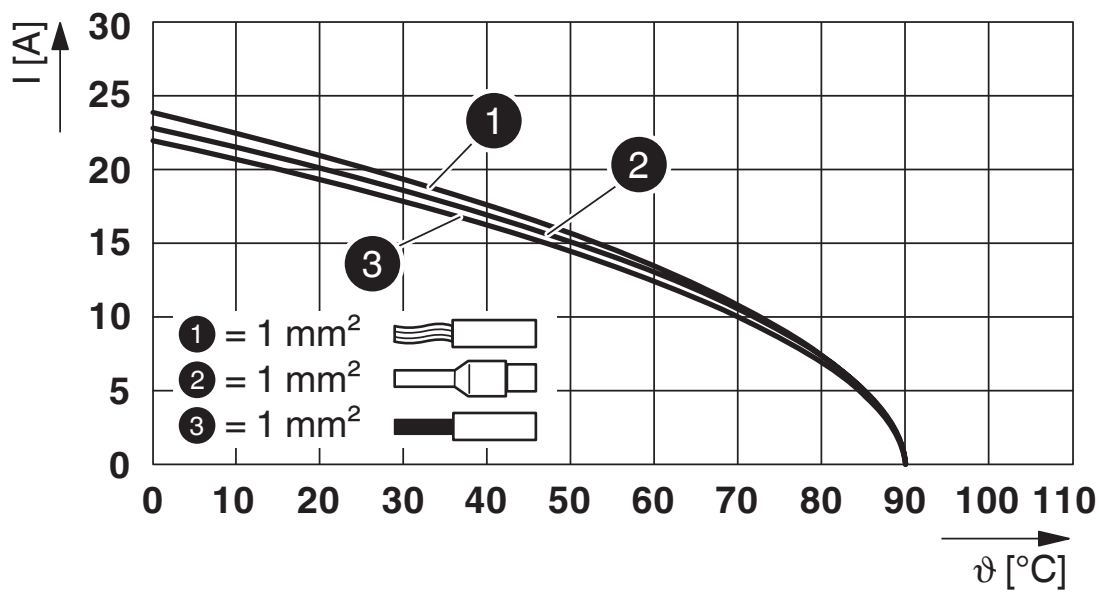
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Drawings

Dimensional drawing



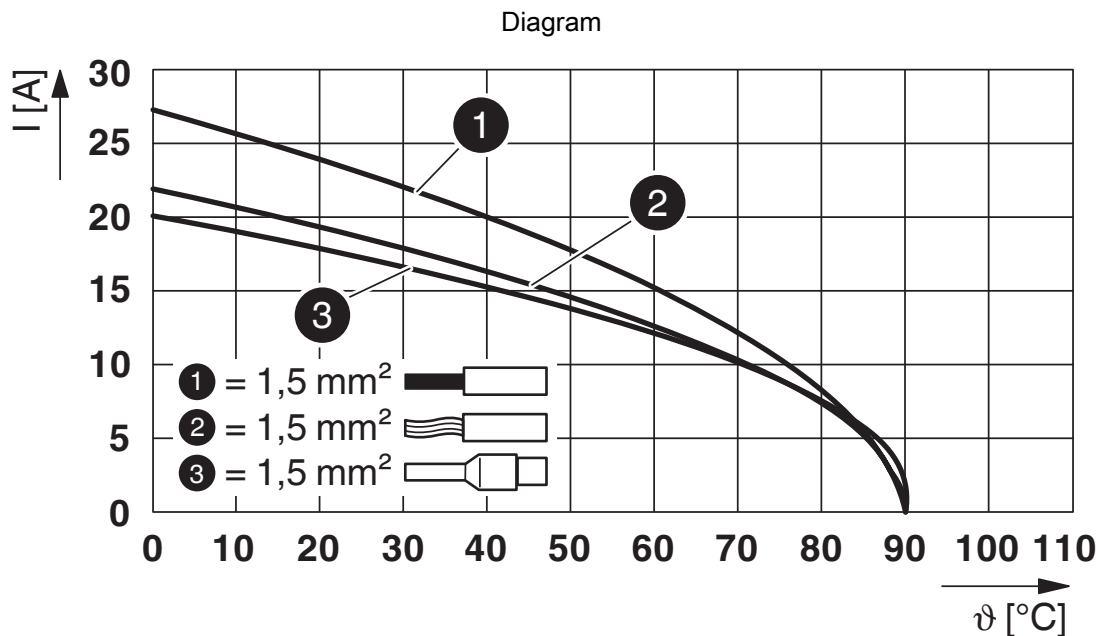
Diagram



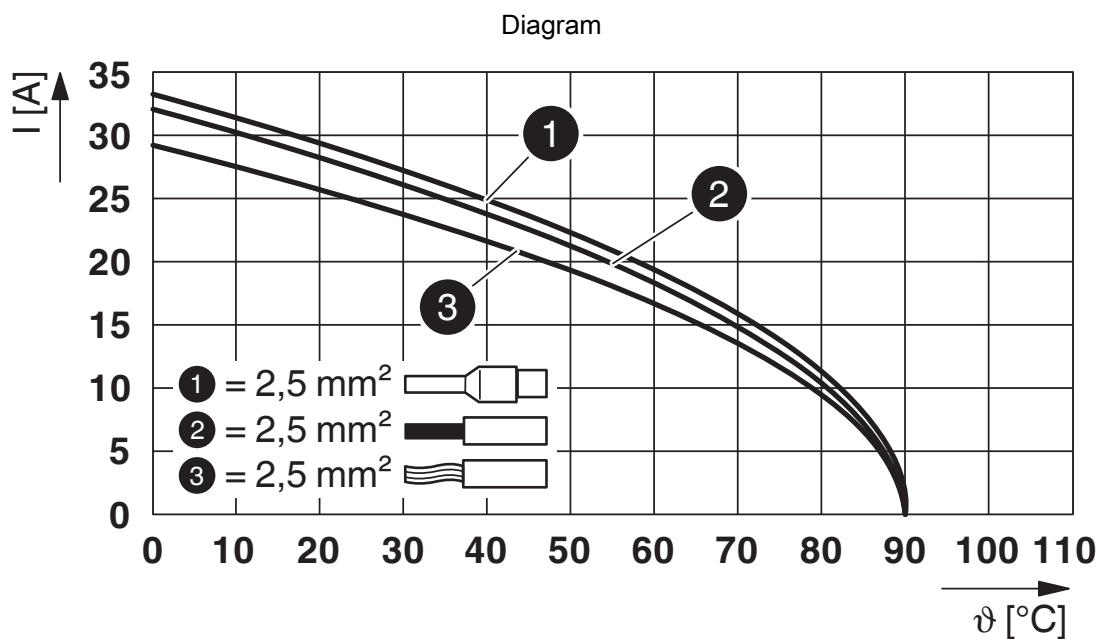
Derating diagram for 1.0 mm²

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Derating diagram for 1.5 mm²



Derating diagram for 2.5 mm²

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1047353>

|  VDE Zeichengenehmigung Approval ID: 40049992 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 450 V | 20 A | - | 0.5 - 2.5 |

|  UL Listed Approval ID: E468743 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| Only rigid conductors | 600 V | 15 A | - 14 | - 14 |
| multi-stranded with ferrule | 600 V | 15 A | - 14 | - 14 |

|  cUL Listed Approval ID: E468743 | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 600 V | 20 A | - 14 | - |

| DNV Approval ID: TAE00004G2 | | | | |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

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Classifications

ECLASS

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

ETIM

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

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121500 |
|-------------|----------|

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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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