

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



1047353

<https://www.phoenixcontact.com/us/products/1047353>

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Panel feed-through, Direct connection, product family: IPD, connection method: Single wires/ Push-in connection, number of positions: 2+PE, M20, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 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	BF6IAB
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
Type	Direct connection

### Data management status

Article revision	06
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### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

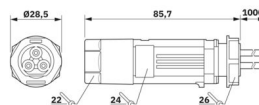
#### Connection technology

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 <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section solid	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section with ferrule	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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 <sub>N</sub>	450 V AC 450 V DC

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Nominal current $I_N$	16 A (observe derating)
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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	10
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## 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

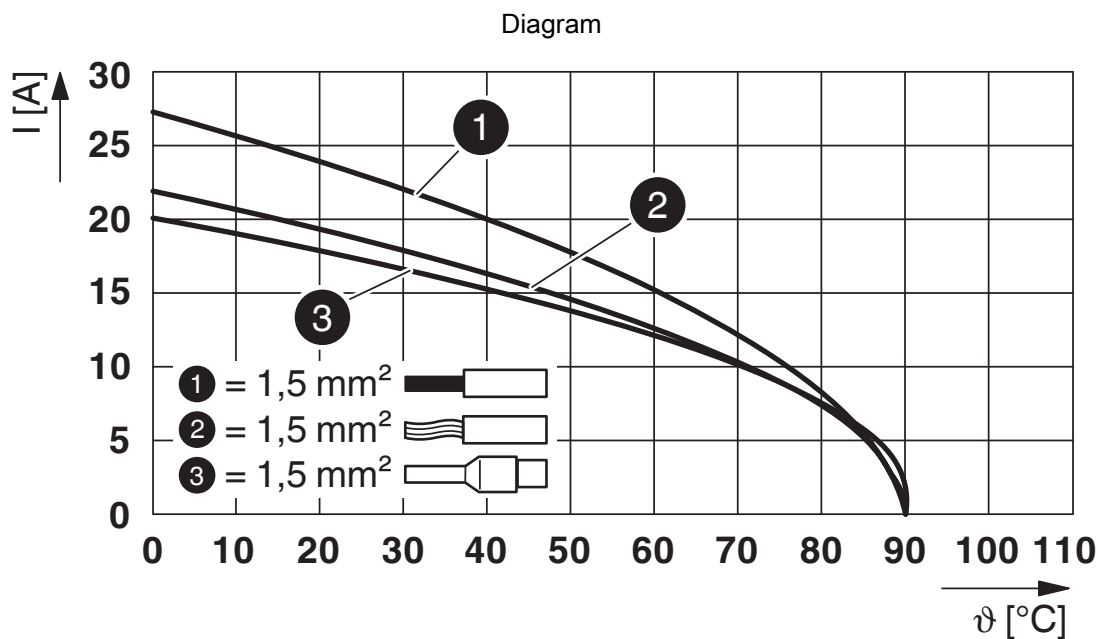
Mounting type	Front mounting M20
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## Environmental and real-life conditions

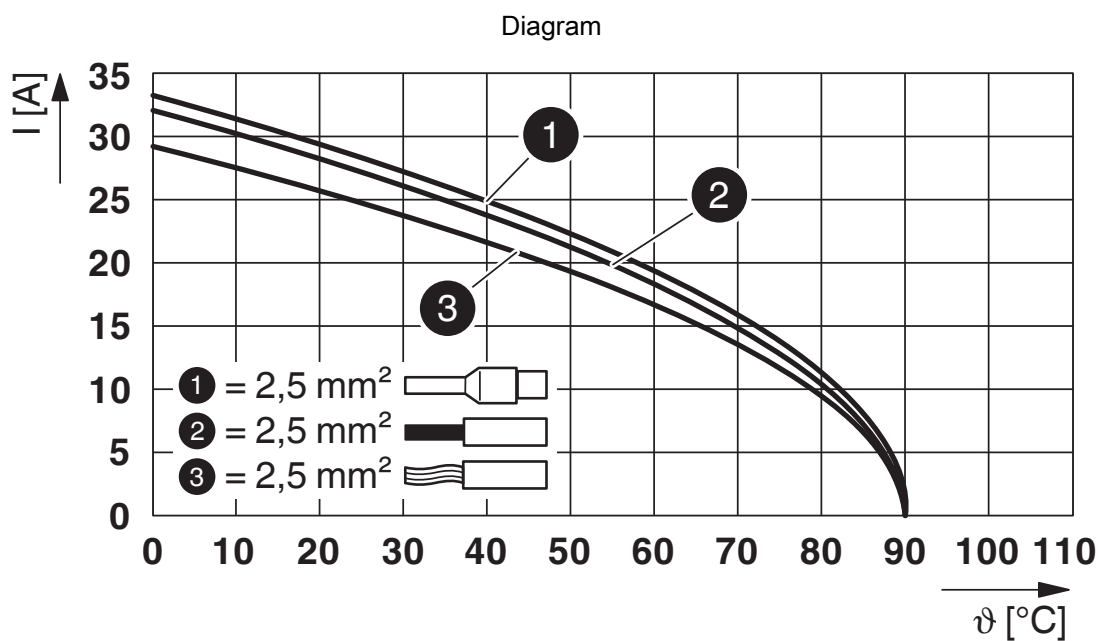
### Ambient conditions

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

## Drawings

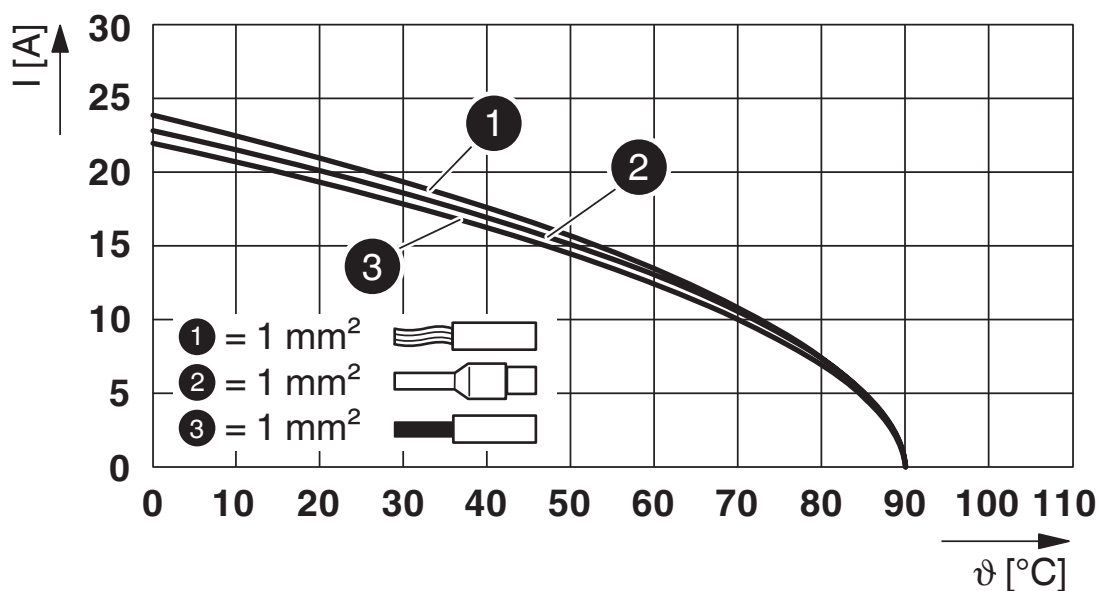


Derating diagram for 1.5 mm<sup>2</sup>



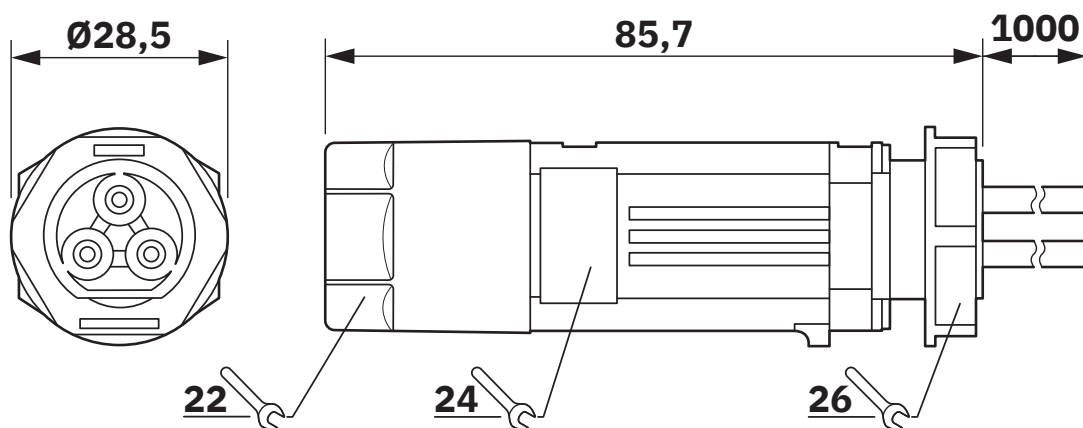
Derating diagram for 2.5 mm<sup>2</sup>

Diagram



Derating diagram for 1.0 mm<sup>2</sup>

Dimensional drawing



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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 $\text{mm}^2$
	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 $\text{mm}^2$
Only rigid conductors	600 V	15 A	-	- 14
multi-stranded with ferrule	600 V	15 A	-	- 14



### cUL Listed

Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	20 A	- 14	-

### DNV

Approval ID: TAE00004G2

### cULus Listed

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## Classifications

### ECLASS

ECLASS-11.0	27440602
ECLASS-13.0	27440602
ECLASS-12.0	27440602

### ETIM

ETIM 9.0	EC002566
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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