

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



1047321

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Panel feed-through, Direct connection, connection method: Push-in connection/ Push-in connection, number of positions: 2+PE, M20, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 600 V, 20 A, black, external cable diameter: 6 mm ... 9 mm and 8 mm ... 13 mm

## 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	1047321
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF51
Product key	AF6IAA
GTIN	4055626647197
Weight per piece (including packing)	56 g
Weight per piece (excluding packing)	55.1 g
Customs tariff number	85366990
Country of origin	CN

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## Technical data

### Notes

Assembly note	<b>NOTE:</b> Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.
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### 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

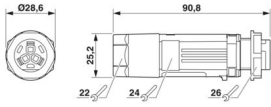
#### Connection technology

Connection method On the device side	Push-in connection
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	90.8 mm

### Electrical properties

Rated surge voltage (III/3)	6 kV
Rated current	20 A
Rated voltage (III/3)	600 V
Nominal voltage U <sub>N</sub>	690 V AC

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	690 V DC
Nominal current $I_N$	20 A (observe derating)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	10
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## Material specifications

Color	black (RAL 9005)
Material Housing	PA
Material Seal	NBR (Field) EPDM (Device)
Flammability rating according to UL 94	V0
Contact material	Cu
Contact surface material	Ni/Sn

## Cable/line

External cable diameter	6 mm ... 9 mm
	8 mm ... 13 mm
Stripping length of the individual wire	10 mm
Position marking	L, N, PE

## 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 ... 100 °C (T = 55 °C)
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C
Resistance to UV radiation	yes

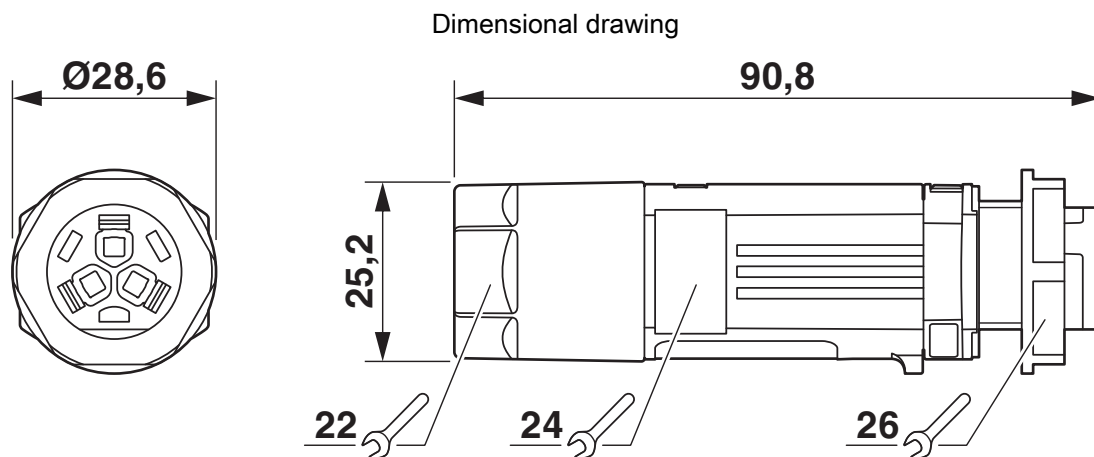
# IPD WD 3P2,5 M20 BK - Panel feed-through



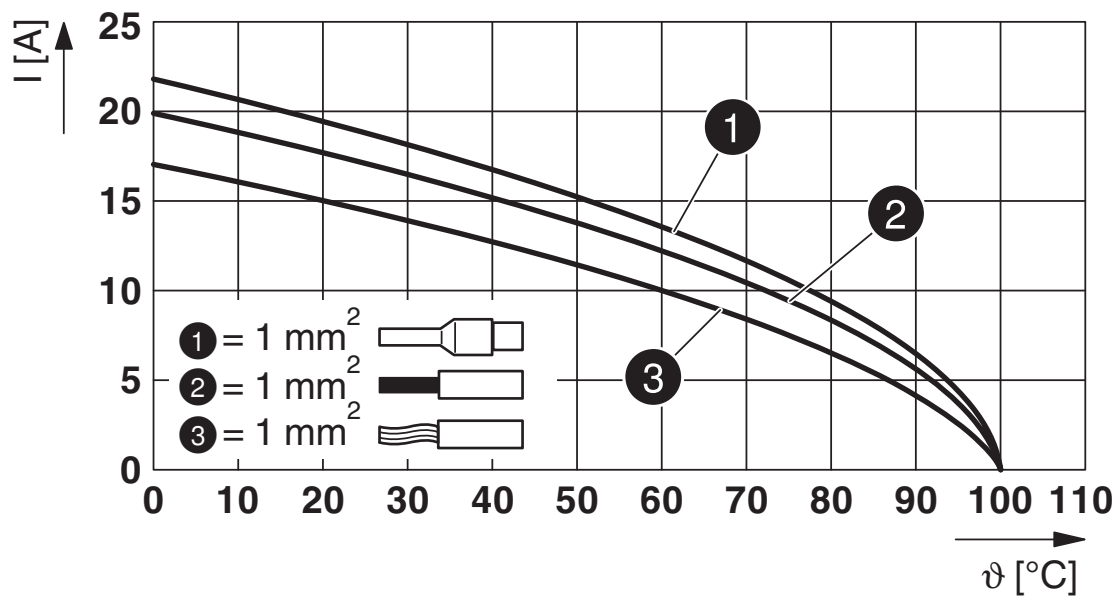
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## Drawings



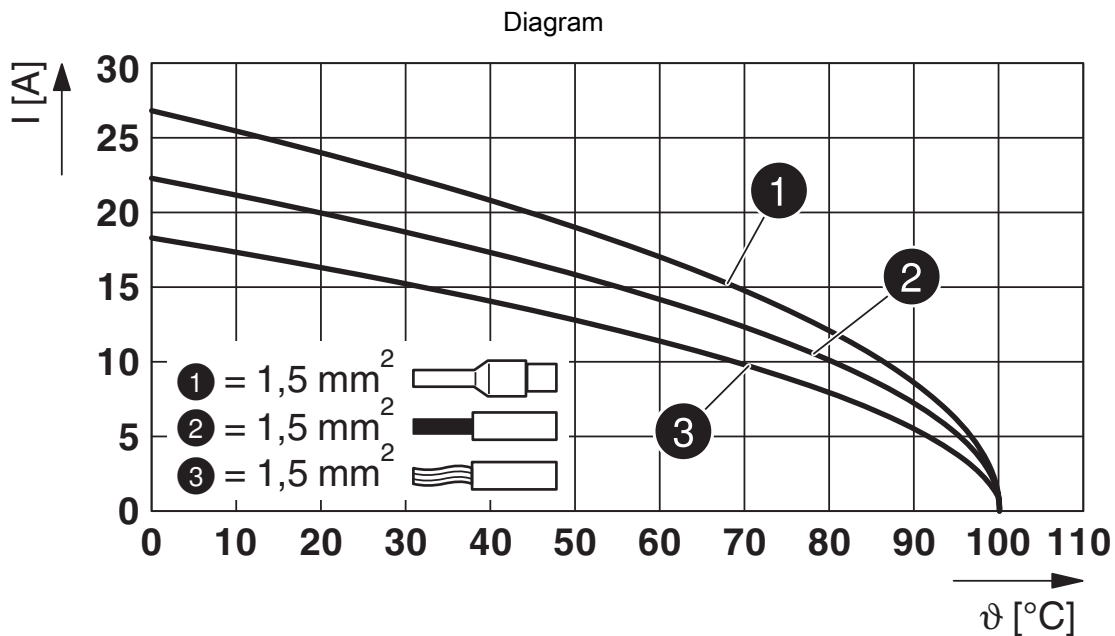
Diagram



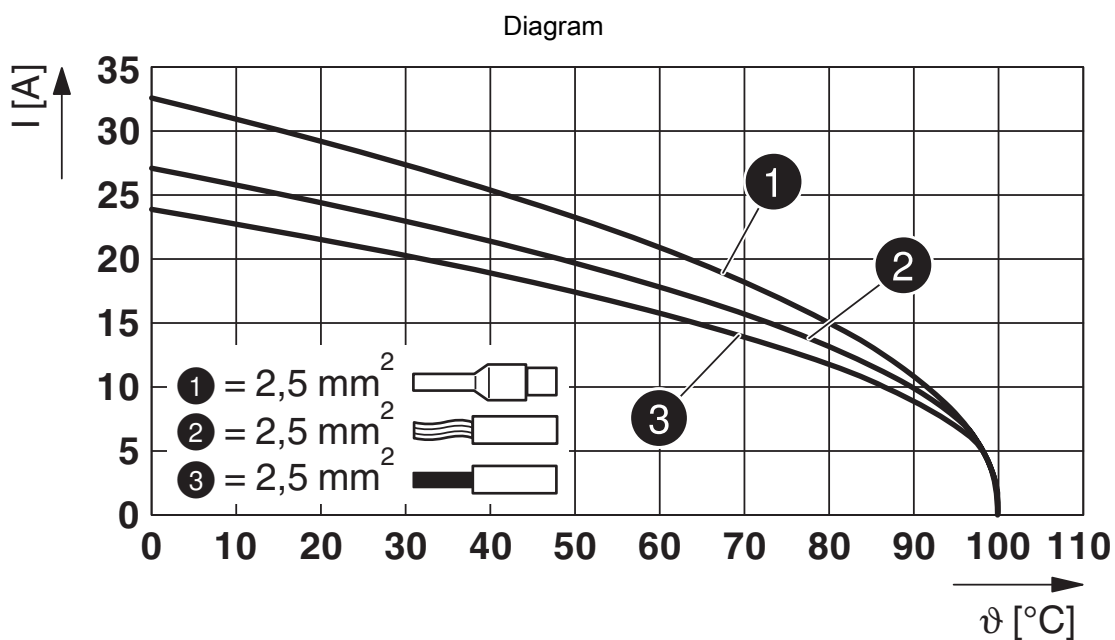
Derating diagram for 1.0 mm<sup>2</sup>

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



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1047321>

 <b>VDE Zeichengenehmigung</b> Approval ID: 40049992				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	690 V	20 A	-	0.5 - 2.5

<b>DNV</b> Approval ID: TAE00004G2				
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 <b>UL Listed</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
Only rigid conductors	600 V	20 A	- 14	- 14
multi-stranded with ferrule	600 V	20 A	- 14	- 14

 <b>cUL Listed</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	600 V	17 A	- 14	-

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## Classifications

### ECLASS

ECLASS-13.0	27440602
ECLASS-15.0	27440602

### ETIM

ETIM 10.0	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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### EF3.1 Climate Change

CO2e kg	0.717 kg CO2e
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