

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



1047348

<https://www.phoenixcontact.com/us/products/1047348>

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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, 2.5 mm², cable length: 0.5 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	1047348
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF51
Product key	AF6IAB
GTIN	4055626648309
Weight per piece (including packing)	102.2 g
Weight per piece (excluding packing)	102.2 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

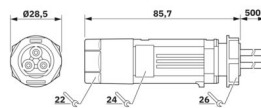
Connection technology

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
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Material specifications

Color (Housing)	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

Cable length	0.5 m
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 class 5
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
Cable cross section	2.5 mm²
Material wire insulation	PVC
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

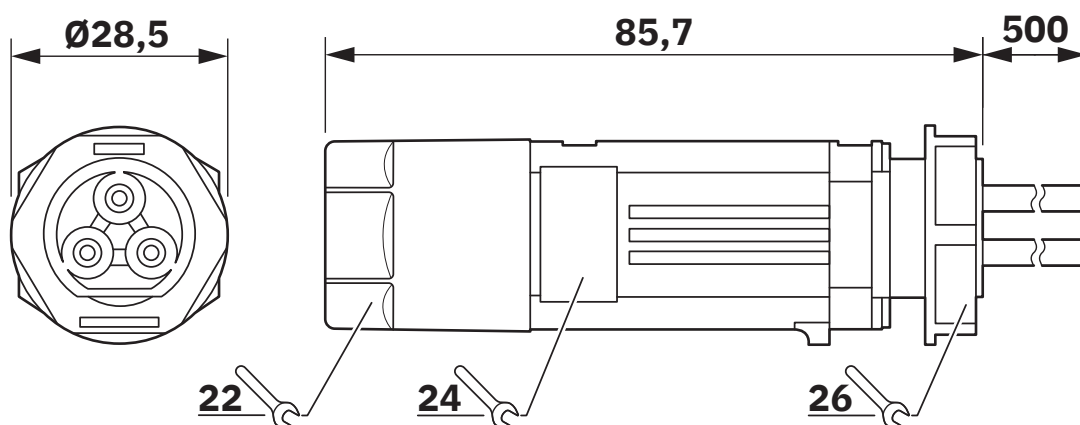
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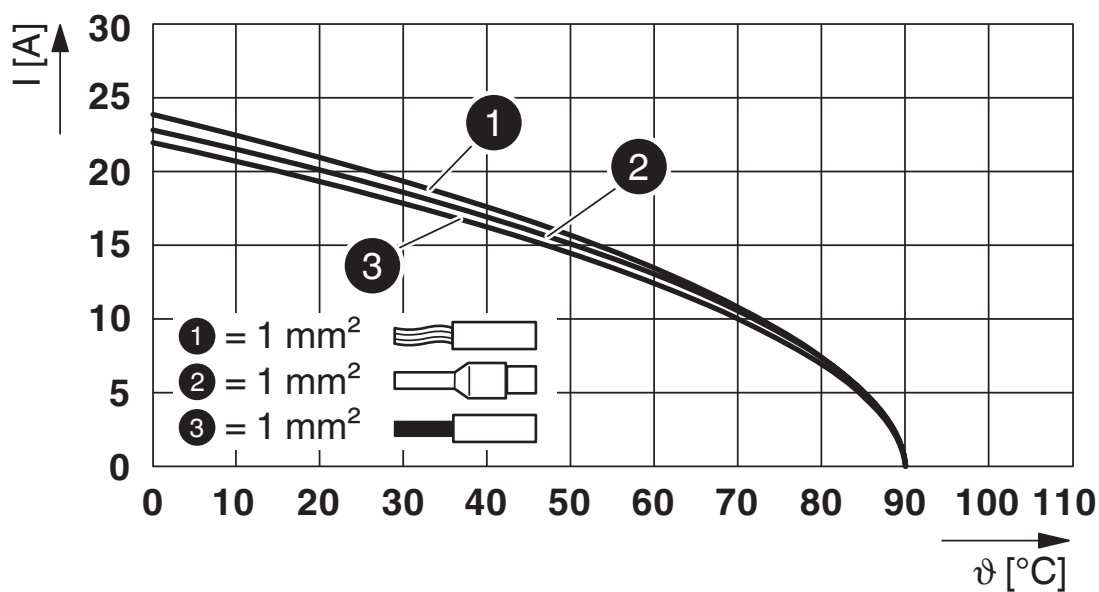
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Drawings

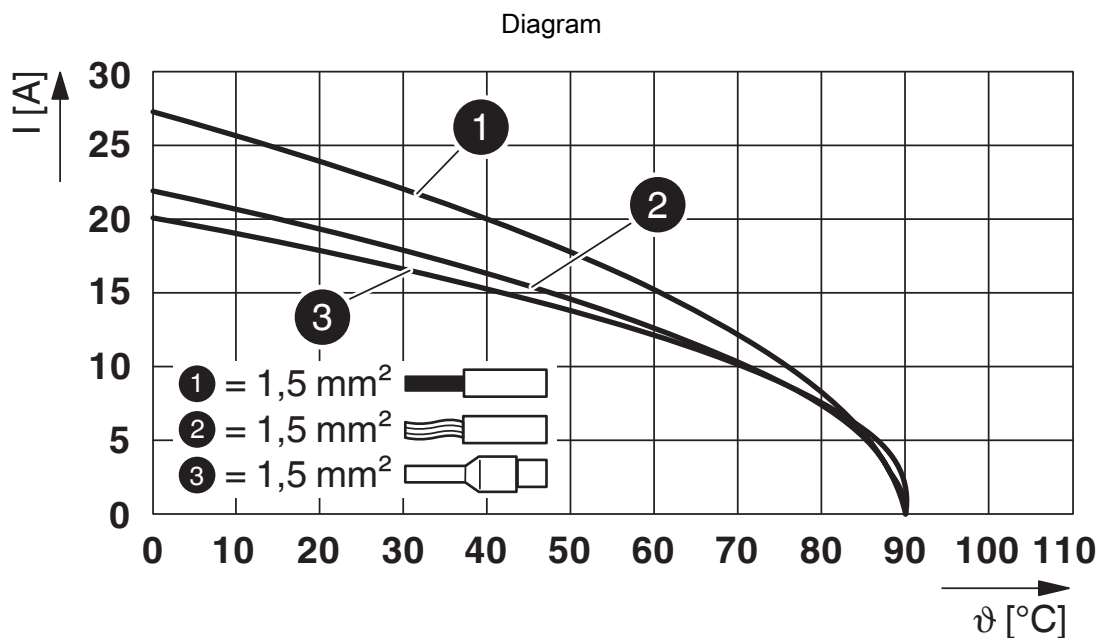
Dimensional drawing



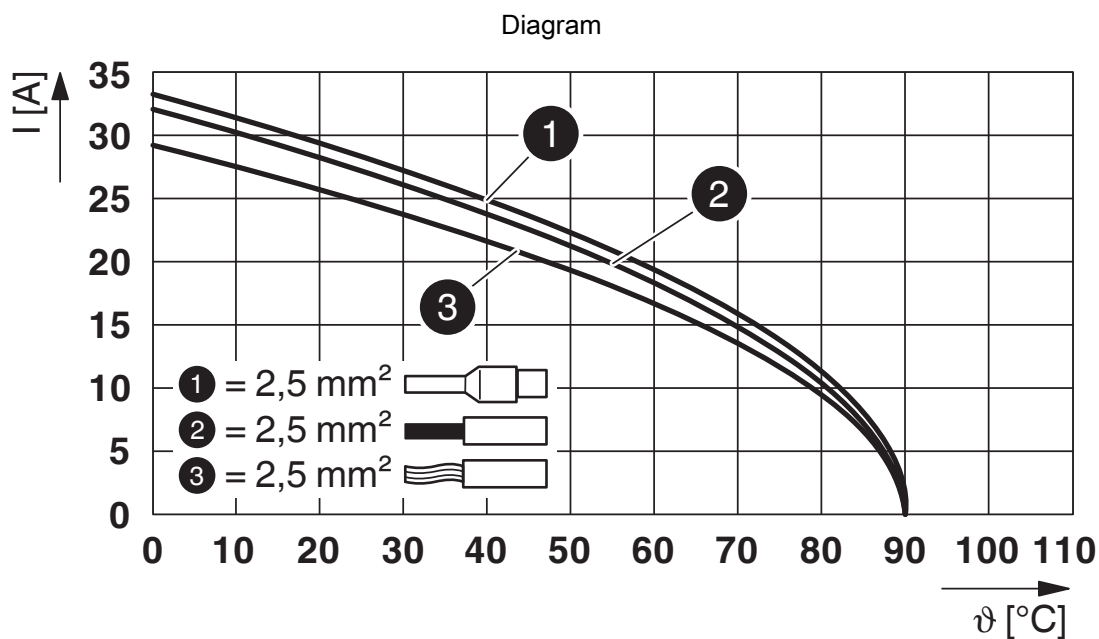
Diagram



Derating diagram for 1.0 mm²



Derating diagram for 1.5 mm²



Derating diagram for 2.5 mm²

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Approvals

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 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 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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