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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 mm² ... 2.5 mm², 450 V, 16 A, PA, black, external cable diameter: 6 mm ... 9 mm and 8 mm ... 13 mm, cable length: 0.5 m

Your advantages

- Convenient: quick and easy assembly without special tools

Commercial data

Item number	1047348
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF51
Product key	BF6IAB
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

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



1047348

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

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	04
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

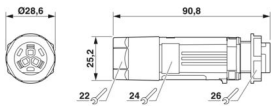
Connection technology

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 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

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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)
Flammability rating according to UL 94	V0
Contact material	Cu
Contact surface material	Ni/Sn

Cable/line

Cable length	0.5 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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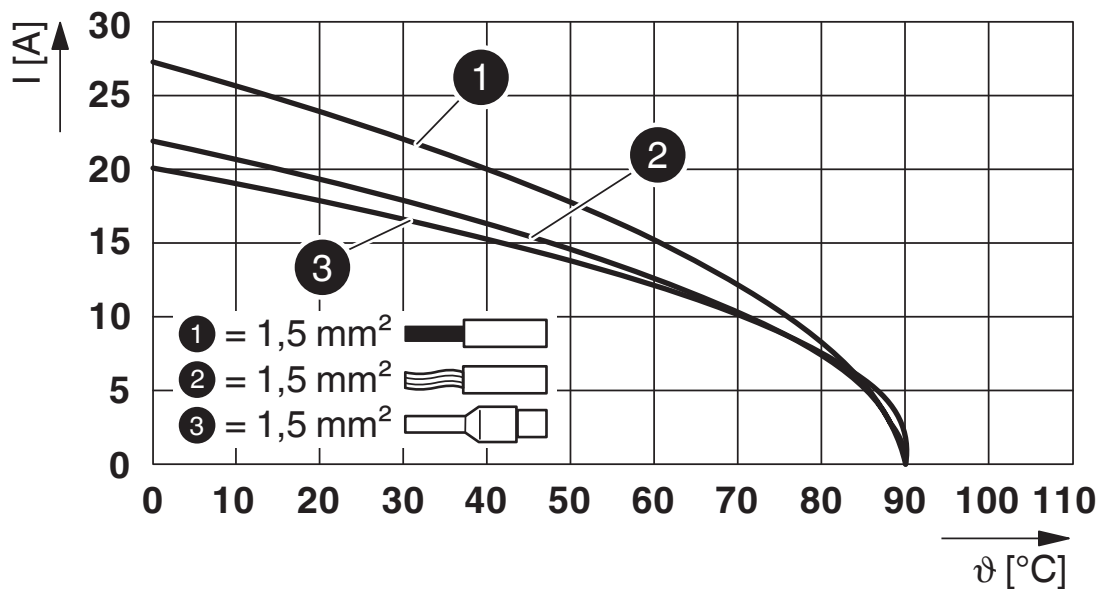
Environmental and real-life conditions

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

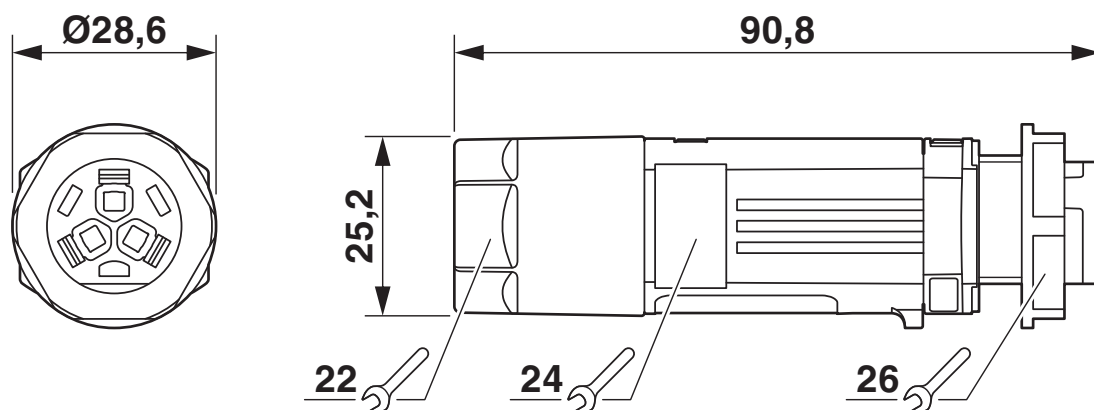
Drawings

Diagram



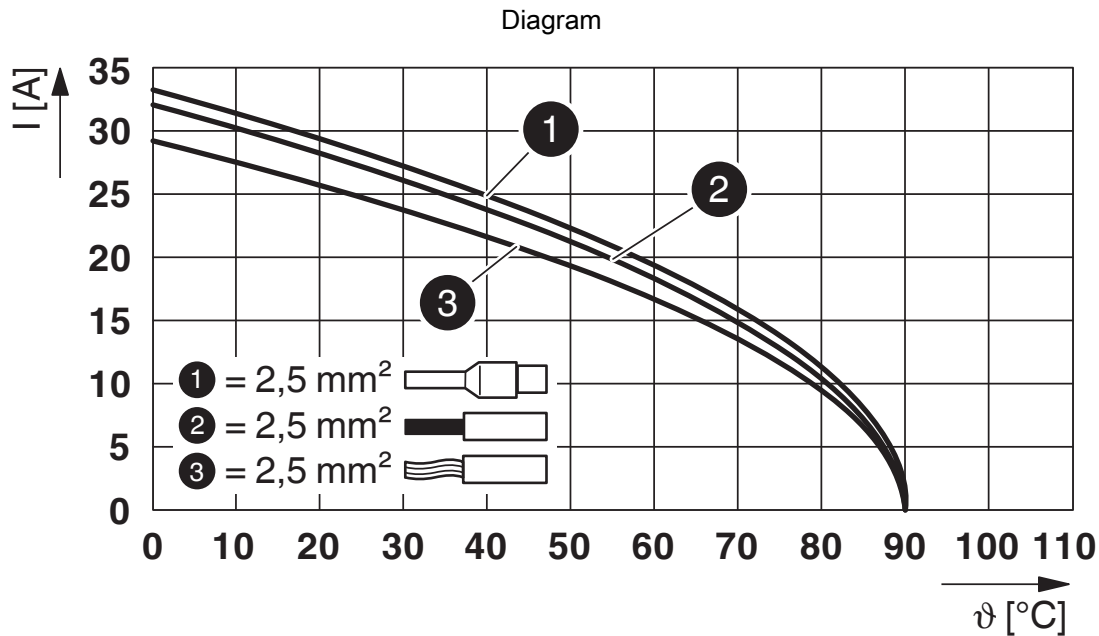
Derating diagram for 1.5 mm²

Dimensional drawing

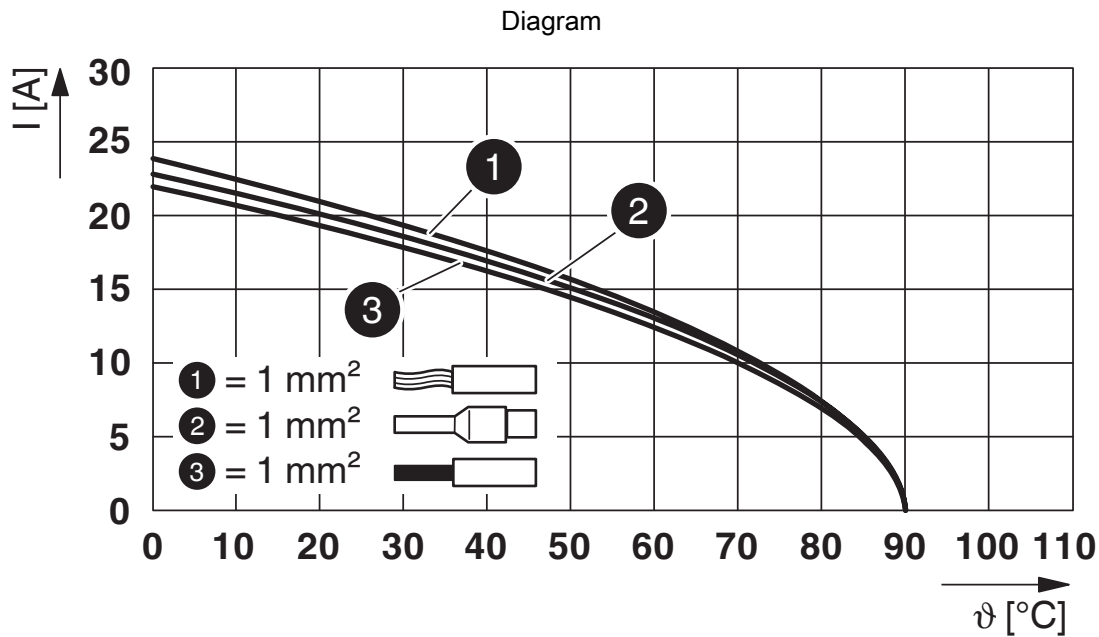


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Derating diagram for 2.5 mm²



Derating diagram for 1.0 mm²

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1047348

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1047348>



VDE Zeichengenehmigung

Approval ID: 40049992

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section 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 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 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
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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Accessories

SEALING PLUG 10X16 RD - Sealing plug

1400284

<https://www.phoenixcontact.com/us/products/1400284>

Sealing plug, for threads pluggable, color: red



SEALING PLUG 7X16 RD - Sealing plug

1400255

<https://www.phoenixcontact.com/us/products/1400255>

Sealing plug, color: red



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ZBF 4:UNBEDRUCKT - Zack Marker strip, flat

0808587

<https://www.phoenixcontact.com/us/products/0808587>

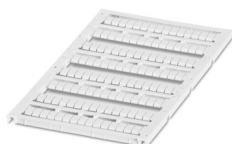


Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 4 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

UC-TMF 4 - Marker for terminal blocks

0818166

<https://www.phoenixcontact.com/us/products/0818166>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 4.2 mm, lettering field size: 3.6 x 5.1 mm, Number of individual labels: 120

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UCT-TMF 4 - Marker for terminal blocks

0828742

<https://www.phoenixcontact.com/us/products/0828742>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 4.2 mm, lettering field size: 3.4 x 4.7 mm, Number of individual labels: 90

SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/us/products/1204517>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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CRIMPFOX CENTRUS 6S - Crimping pliers

1213144

<https://www.phoenixcontact.com/us/products/1213144>



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm² ... 6 mm², also for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, lateral insertion, equipped with fall protection

QSS 22 - Socket wrench

1670206

<https://www.phoenixcontact.com/us/products/1670206>



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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