

QPD W 3PE1,5 M20 FC BK - Panel feed-through



1414683

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Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2), number of positions: 3+PE, M20, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile, 1.5 mm²

Your advantages

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Robust throughout: housing with IP68/IP69K and IK07 protection for a wide range of applications
- Safer connection with mechanical coding to protect against mismatching, and touch-proof protection in accordance with DIN EN 0105
- Efficient - by using panel feed-throughs, devices no longer need to be opened in order to connect cables

Commercial data

Item number	1414683
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6ABA
Catalog page	Page 478 (C-2-2019)
GTIN	4055626031361
Weight per piece (including packing)	21 g
Weight per piece (excluding packing)	21.5 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Product properties

Product type	Panel feed-through
Product family	QPD
Type	QPD 4x1,5
Number of positions	4
Connection profile	3+PE
Position marking	1, 2, 3, PE
Number of connections	10
Number of connections per position	1
Coding	Coding profile

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

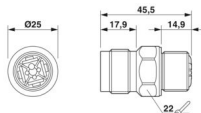
Connection technology

Connection method On the device side	Spade connection (For slip-on sleeves according to DIN 46247-2)
Frequency of connections between conductors of the same cross section	max. 10

Conductor connection

Conductor cross section flexibel	0.5 mm ² ... 1.5 mm ² 0.5 mm ² ... 1.5 mm ²
Connection cross section AWG	20 ... 16
Tightening torque Union nut	8 Nm 5 Nm

Dimensions

Dimensional drawing	
Width	25 mm
Height	25 mm
Length	45.5 mm
Diameter	25 mm
Dimensions of slip-on connection	4,8 x 0,8 mm

Electrical properties

Rated surge voltage (II/2)	8 kV
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Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	6 kV
Rated current	17.5 A
Contact resistance	< 3 mΩ
rated voltage (II/2)	1000 V
rated voltage (III/2)	1000 V
Rated voltage (III/3)	690 V
Nominal voltage U_N	690 V AC
	690 V DC
Nominal current I_N	17.5 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	max. 50
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Material specifications

Color	black (RAL 9005)
Material Housing	PA
	Cu
	Silver-plated
Flammability rating according to UL 94	V0
Material wire insulation	PVC/PE/TPE/rubber

Cable/line

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 class 1 to 6/min. 0.15 mm
Wire diameter including insulation	1.6 mm ... 3 mm
Position marking	1, 2, 3, PE
Cable cross section	1.5 mm ²
Material wire insulation	PVC/PE/TPE/rubber

Mounting

Mounting type	Front mounting M20
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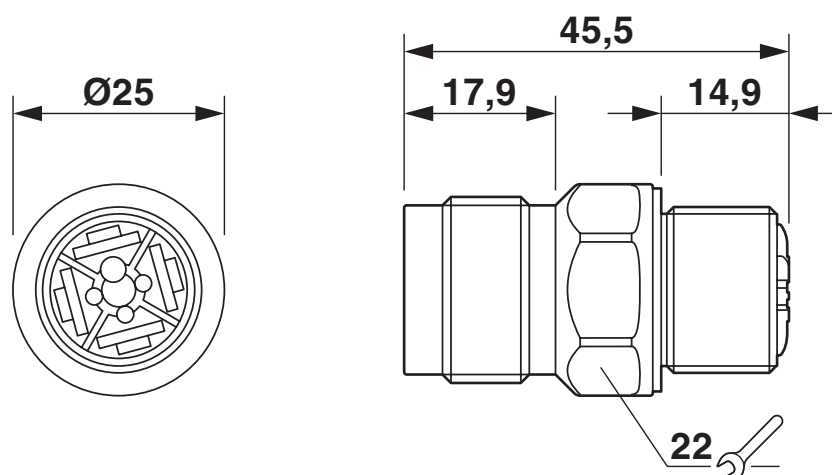
Environmental and real-life conditions

Ambient conditions

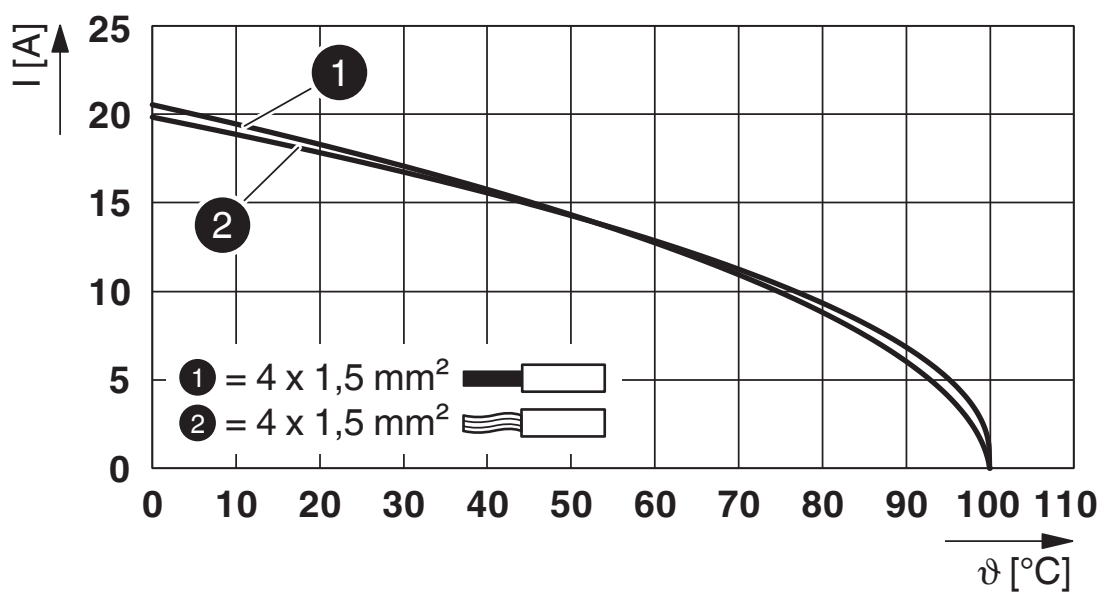
Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

Drawings

Dimensional drawing



Diagram



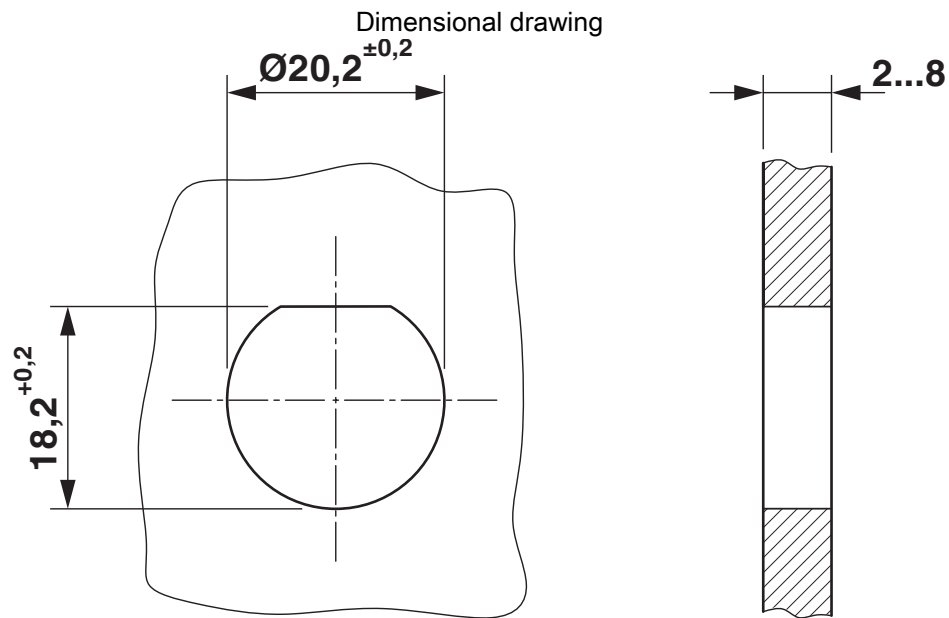
Derating diagram

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Housing cutout

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414683>



IECEE CB Scheme
Approval ID: DE1-65875



EAC
Approval ID: RU C-DE.BL08.B.00511



DNV GL
Approval ID: TAE00003J5



VDE Zeichengenehmigung
Approval ID: 40029149

	UL Listed Approval ID: E468743			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group keine				
	600 V	8 A	-	- 16

	cUL Listed Approval ID: E468743			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group keine				
	600 V	8 A	- 16	-

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27440602
ECLASS-12.0	27440602
ECLASS-13.0	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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Mandatory accessories

QPD P 3PE1,5 4-9 BK - Connector

1414703

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Connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD P 3PE1,5 8-13 BK - Connector

1414704

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Connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 13 mm

QPD W 3PE1,5 M20 FC BK - Panel feed-through



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QPD N 3PE1,5 4-9 BK - Nut

1415097

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Nut, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD N 3PE1,5 8-13 BK - Nut

1415098

<https://www.phoenixcontact.com/us/products/1415098>



Nut, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, external cable diameter: 10 mm ... 13 mm

Accessories

QPD W 3PE1,5 M20 FC BK - Panel feed-through

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QPD QSK 3/4X1,5 - Protective cap

1414723

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Protective cap plastic, for QPD-QUICKON connection 3(4) x 1.5 mm², IP50



CP-QPD 3/4X1,5 - Coding profile

1414729

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Coding profile red, for pushing into the QUICKON dome and connector, can be positioned in 90° steps.



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QPD QSK BK 3/4X1,5 FS - Protective cap

1414722

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Protective cap, plastic, for QUICKON connection, black, with retaining cord, IP68

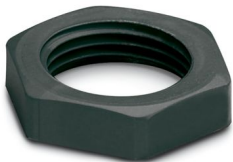


Q-MU-M20 BK - Flat nut

1586099

<https://www.phoenixcontact.com/us/products/1586099>

Flat nut, color: black



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QPD W 3PE1,5 M20 0,5 BK - Panel feed-through

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Panel feed-through, product family: QPD, connection method: Single wires, number of positions: 3+PE, M20, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile, 1.5 mm², cable length: 0.5 m

QPD W 3PE1,5 M20 1,0 BK - Panel feed-through

1414682

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Panel feed-through, product family: QPD, connection method: Single wires, number of positions: 3+PE, M20, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile, 1.5 mm², cable length: 1 m

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QPD H 3PE1,5 BK - H distributor

1414717

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H distributor, product family: QPD, connection method: IDC connection/
QUICKON fast connection, number of positions: 3+PE, 0.5 mm² ... 1.5 mm², 690
V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile

QPD C 3PE1,5 1X4-9 BK - Conductor connector

1414694

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Conductor connector, product family: QPD, connection method: IDC connection,
number of positions: 3+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with
one QUICKON nut, coding: Coding profile, external cable diameter: 5 mm ... 7
mm and 7 mm ... 9.5 mm

QPD W 3PE1,5 M20 FC BK - Panel feed-through

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QPD T 3PE1,5 2X4-9 BK - T distributor

1414707

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T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD C 3PE1,5 1X8-13 BK - Conductor connector

1414697

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Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 13 mm

QPD W 3PE1,5 M20 FC BK - Panel feed-through

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QPD T 3PE1,5 2X8-13 BK - T distributor

1414709

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T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 10 mm ... 13 mm

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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