

Q 1,5/3FL/13-M20KU-ESA-BK - Panel feed-through



1641659

<https://www.phoenixcontact.com/us/products/1641659>

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QUICKON panel feed-through, for external wall mounting with manual solder/slip-on connection, 4.8 x 0.8 mm, 3-pos.

Your advantages

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Robust throughout: housing with IP65/IP67 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	1641659
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	BF6HAB
Catalog page	Page 476 (C-2-2019)
GTIN	4017918608545
Weight per piece (including packing)	22.69 g
Weight per piece (excluding packing)	22.69 g
Country of origin	PL

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Technical data

Product properties

Product type	Panel feed-through
Number of positions	3
Position marking	1, 2, 3
Number of connections	3
Shielded	no

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

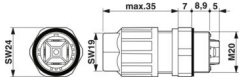
Connection technology

Connection method On the device side	Manual solder/slip on connection (4.8 mm x 0.8 mm)
Connection method On the field side	IDC connection
Frequency of connections between conductors of the same cross section	max. 10 (if the conductor is connected more than once, seal and cap may need to be replaced.)

Conductor connection

Conductor cross section flexibel	0.75 mm² ... 1.5 mm²
Conductor cross section solid	0.75 mm² ... 1 mm²
Connection cross section AWG	18 ... 16
Tightening torque Union nut	2.5 Nm
Tightening torque Contact carrier	3.75 Nm
Tightening torque Locking nut	3.75 Nm
Wrench size Union nut	24 mm
Wrench size Contact carrier	24 mm

Dimensions

Dimensional drawing	
Width	24 mm
Height	24 mm
Length	55.9 mm

Electrical properties

Rated surge voltage (II/2)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (III/3)	6 kV
Rated current	15 A

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Contact resistance	< 3 mΩ
rated voltage (II/2)	630 V (with insulating sleeve)
rated voltage (III/2)	320 V (with insulating sleeve)
Rated voltage (III/3)	500 V
Nominal voltage U_N	500 V AC
	500 V DC
Nominal current I_N	17.5 A (15 A with slip-on sleeve 2.5 mm ² ; 12 A with slip-on sleeve 1.5 mm ² .)

Material specifications

Color	black (RAL 9005)
Material Housing	PA
Material Contact	CuZn
Material Contact surface	tin-plated
Flammability rating according to UL 94	V0
Material wire insulation	PVC / PE

Cable/line

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 class 1 to 6/min. 0.15 mm
External cable diameter	6 mm ... 12 mm
Wire diameter including insulation	1.8 mm ... 3 mm
Position marking	1, 2, 3
Cable cross section	1.5 mm ²
Material wire insulation	PVC / PE

Mounting

Mounting type	Front mounting M20
Assembly note	If the conductor is reconnected, it must be cut off above the last contact point. QUICKON components may only be operated when under no load.

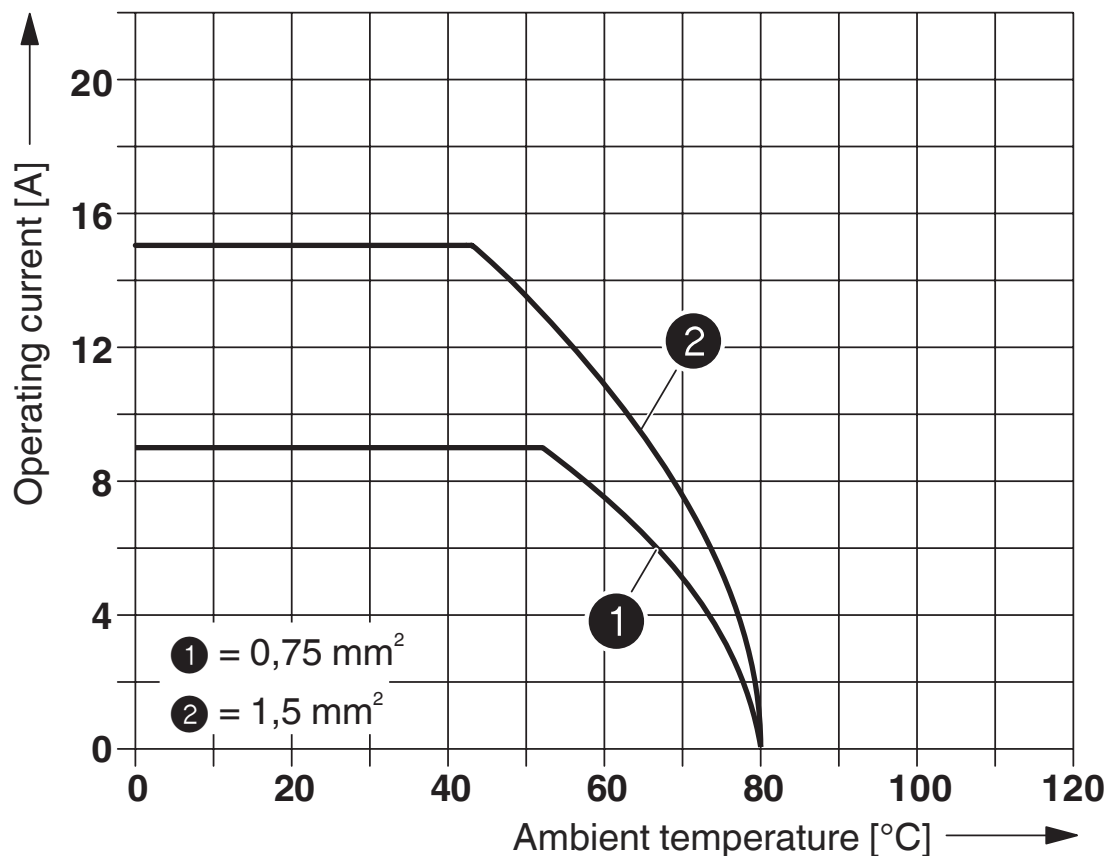
Environmental and real-life conditions

Ambient conditions

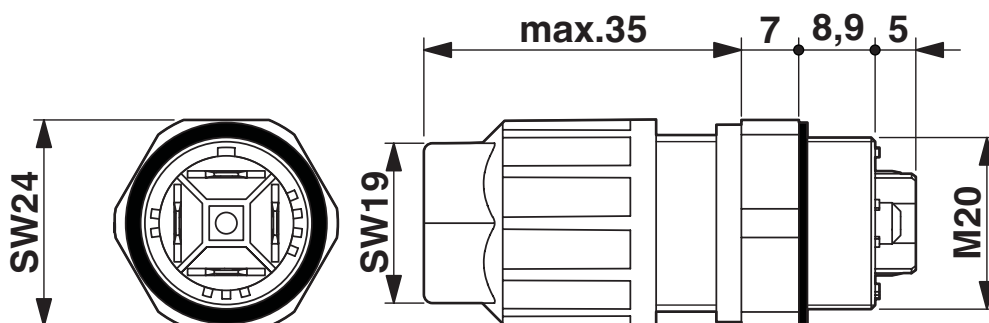
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 80 °C (Specifications of the cable manufacturer must be observed.)
	-25 °C ... 50 °C (when the conductor is connected. Specifications of the cable manufacturer must also be observed.)
Temperature when conductor connected	-5 °C ... 50 °C (specifications of the cable manufacturer must also be observed)

Drawings

Diagram



Dimensional drawing



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Approvals

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cUL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	11 A	-	-

UL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	15 A	-	-

EAC Approval ID: RU C-DE.BL08.B.00511				
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VDE Zeichengenehmigung Approval ID: 40032336				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	500 V	-	-	0.75 - 1.5

cULus Recognized				
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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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Accessories

Q-SMU PG13,5 SET COD2 - Lock nut

1670963

<https://www.phoenixcontact.com/us/products/1670963>



Locking nut, can only be released with Allen wrench, coding 2

Q-MU M20 - Nut

1640702

<https://www.phoenixcontact.com/us/products/1640702>



Nut (plastic) to lock the contact carrier from the inside of the device

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PT/FS 4,8 - Insulating sleeve

1670497

<https://www.phoenixcontact.com/us/products/1670497>



Insulating sleeve, as touch protection, for 4.8 mm slip-on sleeves, slide onto the conductor before

Q-PROT13/16 - Filler plug

1670222

<https://www.phoenixcontact.com/us/products/1670222>



Closing caps, for Pg13/ Pg16, for closing unoccupied connections

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QSS 24 - Socket wrench

1670219

<https://www.phoenixcontact.com/us/products/1670219>



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 24 mm

MICROFOX-SB - Diagonal cutter

1212489

<https://www.phoenixcontact.com/us/products/1212489>



Electronic diagonal cutter, round head, without chamfer, with opening spring, mirror-polished and oiled, 2-component grip, cutting capacity: soft 0.2 - 2.0 mm; medium hard 1.2 mm; hard 0.5 mm diameter

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