

Q 1,5/4FL/24-M20KU-ESA BK - Panel feed-through



1643000

<https://www.phoenixcontact.com/us/products/1643000>

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Panel feed-through, for external panel mounting, with manual solder/slip-on connection, 4.8 x 0.8 mm, connecting thread M20x1.5, 4-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 | 1643000 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF50 |
| Product key | AF6HAB |
| GTIN | 4017918944186 |
| Weight per piece (including packing) | 20.747 g |
| Weight per piece (excluding packing) | 20.49 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|-----------------------|--------------------|
| Product type | Panel feed-through |
| Number of positions | 4 |
| Position marking | 1, 2, 3, 4 |
| Number of connections | 4 |

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 mm ² ... 1.5 mm ² |
| Conductor cross-section solid | 0.75 mm ² ... 1 mm ² |
| Connection cross section AWG | 18 ... 16 |
| Tightening torque Union nut | 3 Nm |
| Tightening torque Contact carrier | 4.5 Nm |
| Tightening torque Locking nut | 4.5 Nm |
| Wrench size Union nut | 19 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 |
| Contact resistance | < 3 mΩ |

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| | |
|-----------------------|--|
| rated voltage (II/2) | 1000 V (with insulating sleeve) |
| rated voltage (III/2) | 800 V |
| Rated voltage (III/3) | 500 V |
| Nominal voltage U_N | 500 V AC |
| | 500 V DC |
| Nominal current I_N | 15 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, 4 |
| 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 |
| Impact strength | IK07 |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| | -25 °C ... 50 °C |
| Temperature when conductor connected | -5 °C ... 50 °C |

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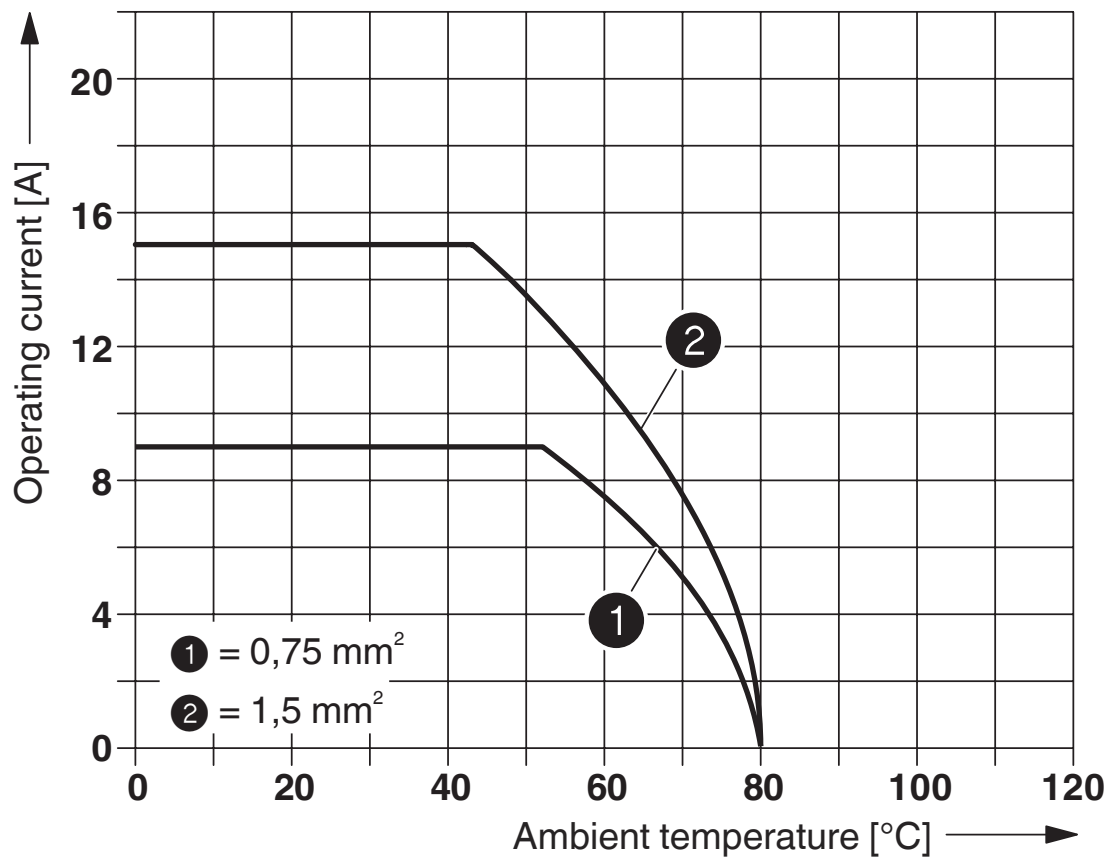
<https://www.phoenixcontact.com/us/products/1643000>

Drawings

Dimensional drawing



Diagram



Q 1,5/4FL/24-M20KU-ESA BK - Panel feed-through



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Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1643000>

|  cUL Recognized Approval ID: E118976 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 250 V | 11 A | - | - |

|  UL Recognized Approval ID: E118976 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 250 V | 15 A | - | - |

|  EAC Approval ID: RU C-DE.AI30.B.01102 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  EAC Approval ID: RU C-DE.A*30.B.01102 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  VDE approval of drawings Approval ID: 40032336 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 500 V | - | - | 0.75 - 1.5 |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440602 |
| ECLASS-15.0 | 27440602 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002566 |
|-----------|----------|

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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.349 kg CO2e |
|---------|---------------|

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