

# QPD W 3PE1,5 8-13 M20 1,0 BK - Panel feed-through



1414679

<https://www.phoenixcontact.com/us/products/1414679>

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Panel feed-through, connection method: Single wires/ IDC connection, number of positions: 3+PE, M20, Pin, 0.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 13 mm, 1.5 mm<sup>2</sup>, cable length: 1 m

## 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                          | 1414679       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF50          |
| Product key                          | AF6ABA        |
| GTIN                                 | 4055626031323 |
| Weight per piece (including packing) | 115.5 g       |
| Weight per piece (excluding packing) | 115.5 g       |
| Customs tariff number                | 85444290      |
| 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                                  | Single wires   |
| Connection method On the field side                                   | IDC connection |
| Frequency of connections between conductors of the same cross section | max. 10        |

#### Conductor connection

|                                  |   |
|----------------------------------|---|
| Conductor cross-section flexibel | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section solid    | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection cross section AWG     | 20 ... 16                                   |
| Tightening torque Union nut      | 8 Nm  |
| Tightening torque Locking nut    | 5 Nm  |

### Dimensions

|                     |         |
|---------------------|---------|
| Dimensional drawing |         |
| Width               | 25 mm   |
| Height              | 25 mm   |
| Length              | 61.3 mm |
| Diameter            | 25 mm   |

### Electrical properties

|                             |      |
|-----------------------------|------|
| Rated surge voltage (II/2)  | 8 kV |
| Rated surge voltage (III/2) | 8 kV |

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|                             |          |
|-----------------------------|----------|
| 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 |
|-----------------------------|---------|

## Material specifications

|  |                   |
|--|-------------------|
| Color                                  | black (RAL 9005)  |
| Material Housing                       | PA                |
| Material Contact                       | Cu                |
| Material Contact surface               | silver-plated     |
| Material Seal                          | NBR               |
| Flammability rating according to UL 94 | V0                |
| Material wire insulation               | PVC/PE/TPE/rubber |

## Cable/line

|   |                                    |
|---|------------------------------------|
| Cable length  | 1 m                                |
| 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   | 10 mm ... 13 mm                    |
| Wire diameter including insulation  | 1.6 mm ... 3 mm                    |
| Position marking  | 1, 2, 3, PE                        |
| Single wire, color  | black, brown, gray, green/yellow   |
| Cable cross section   | 1.5 mm <sup>2</sup>                |
| Material wire insulation  | PVC/PE/TPE/rubber                  |

## Mounting

|               |                    |
|---------------|--------------------|
| Mounting type | Front mounting M20 |
|---------------|--------------------|

## Environmental and real-life conditions

### Ambient conditions

|                      |  |
|----------------------|--|
| Degree of protection | IP66                                   |
|                      | IP68 (2 m / 24 h)                      |
|                      | IP69K                                  |
|                      | Touch-proof when not plugged in (IP2X) |
| Impact strength      | IK07                                   |

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|   |                   |
|---|-------------------|
| 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



Dimensional drawing



Housing cutout

Diagram



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414679>



**IECEE CB Scheme**  
Approval ID: DE1-65875



**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 $mm^2$ |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine |                       |                       |                   |                      |
|       | 600 V                 | 8 A                   | - 16              | -                    |



**cUL Listed**  
Approval ID: E468743

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine |                       |                       |                   |                      |
|       | 600 V                 | 8 A                   | - 16              | -                    |

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

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