

# QPD W 4PE6,0 12-20 M25 1,0 BK - Panel feed-through



1410395

<https://www.phoenixcontact.com/us/products/1410395>

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QUICKON panel feed-through, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, with QUICKON nut, black, for cable diameter of 12 mm ... 20 mm, M25 connection thread with 5 welded-on 6.0 mm<sup>2</sup> cable wires, 1.0 m long, cut flat at the end.

## 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                          | 1410395             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF50                |
| Product key                          | BF6ACC              |
| Catalog page                         | Page 492 (C-2-2019) |
| GTIN                                 | 4046356929332       |
| Weight per piece (including packing) | 409.3 g             |
| Weight per piece (excluding packing) | 409.3 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 5x6,0          |
| Number of positions                | 5                  |
| Connection profile                 | 4+PE               |
| Position marking                   | 1, 2, 3, N, PE     |
| Number of connections              | 10                 |
| Number of connections per position | 1                  |
| Coding                             | coded              |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

## Connection data

### Connection technology

|                                                                       |                          |
|-----------------------------------------------------------------------|--------------------------|
| Connection method On the device side                                  | Single wires (Welded-on) |
| 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 | 2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Conductor cross section solid    | 2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Connection cross section AWG     | 14 ... 10                                 |
| Tightening torque Union nut      | 15 Nm                                     |
| Wrench size Union nut            | 30 mm                                     |

## Dimensions

|                     |         |
|---------------------|---------|
| Dimensional drawing |         |
| Width               | 39.6 mm |
| Height              | 39.6 mm |
| Length              | 81.6 mm |
| Diameter            | 39.6 mm |
| Wrench size         | 30 mm   |

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|                          |       |
|--------------------------|-------|
| Wrench size for mounting | 30 mm |
|--------------------------|-------|

## Electrical properties

|                             |          |
|-----------------------------|----------|
| Rated surge voltage (II/2)  | 8 kV     |
| Rated surge voltage (III/2) | 8 kV     |
| Rated surge voltage (III/3) | 6 kV     |
| Rated current               | 40 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 $I_N$       | 40 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     |
| 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                                                     | 12 mm ... 20 mm                        |
| Wire diameter including insulation                                          | 2.95 mm ... 5 mm                       |
| Position marking                                                            | 1, 2, 3, N, PE                         |
| Single wire, color                                                          | black, brown, gray, blue, green/yellow |
| Cable cross section                                                         | 6 mm <sup>2</sup>                      |
| Material wire insulation                                                    | PVC/PE/TPE/rubber                      |

## Mounting

|               |                    |
|---------------|--------------------|
| Mounting type | Front mounting M25 |
|---------------|--------------------|

## Environmental and real-life conditions

### Ambient conditions

|      |
|------|
| IP66 |
|------|

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|                                         |                   |
|-----------------------------------------|-------------------|
| Degree of protection                    | IP68 (2 m / 24 h) |
|                                         | IP69K             |
| Impact strength                         | IK07              |
| Ambient temperature (operation)         | -40 °C ... 100 °C |
| Temperature when conductor connected    | -5 °C ... 50 °C   |
| Ambient temperature (storage/transport) | -40 °C ... 100 °C |

# QPD W 4PE6,0 12-20 M25 1,0 BK - Panel feed-through

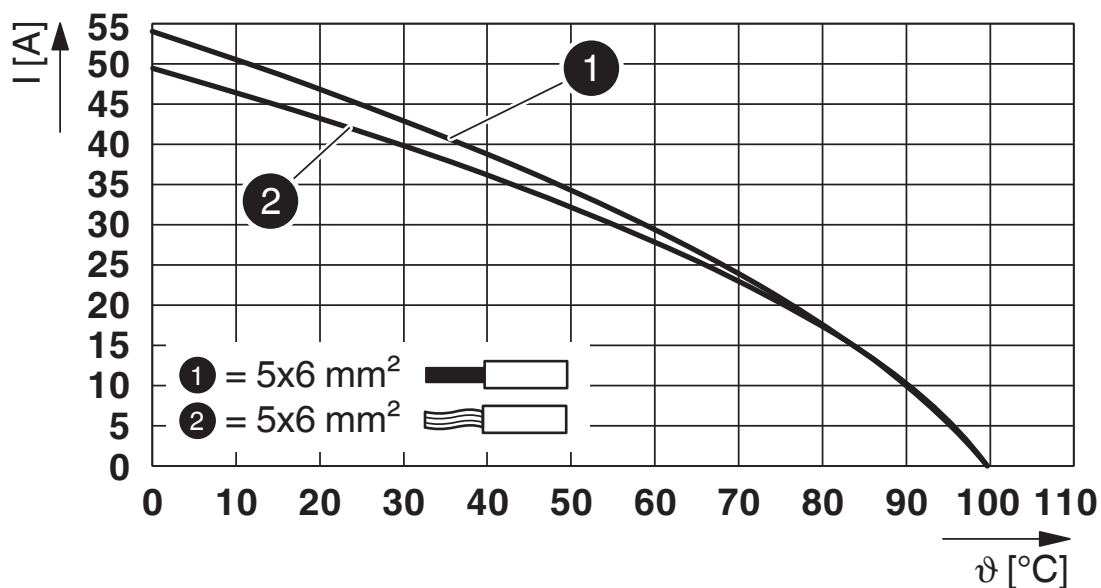


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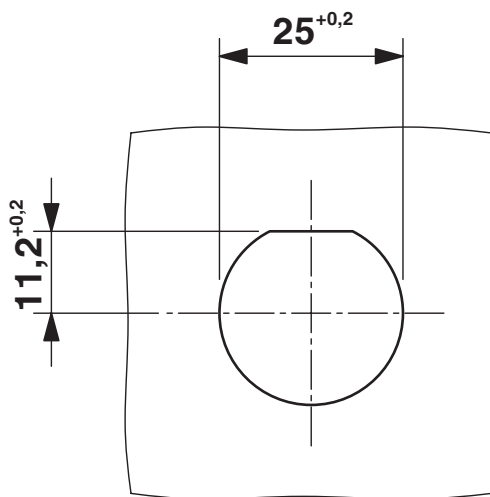
## Drawings

Diagram



Derating diagram

Dimensional drawing



Panel cutout

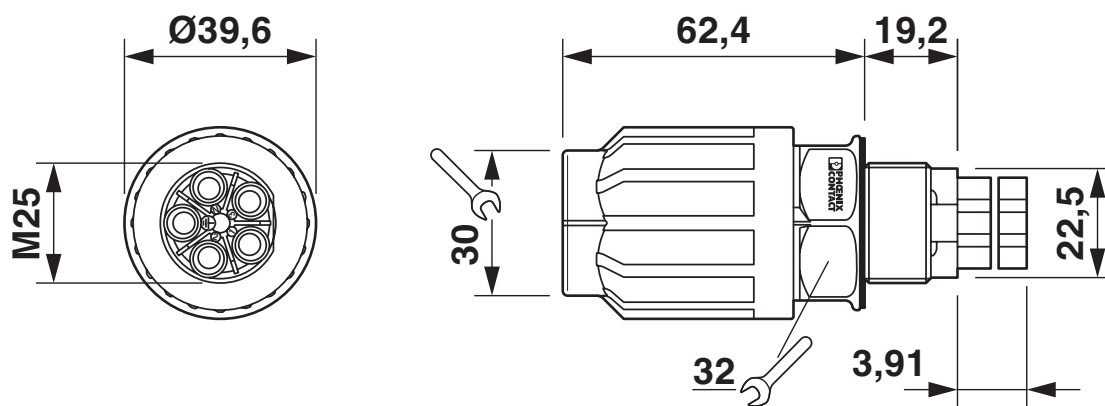
# QPD W 4PE6,0 12-20 M25 1,0 BK - Panel feed-through



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Dimensional drawing



Dimensional drawing of QPD W 4PE6,0 M25

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1410395>



**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

|                                                                                     |                                          |                                |                                |                   |
|-------------------------------------------------------------------------------------|------------------------------------------|--------------------------------|--------------------------------|-------------------|
|  | <b>UL Listed</b><br>Approval ID: E468743 |                                |                                |                   |
|                                                                                     |                                          | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG |
|                                                                                     |                                          | 600 V                          | 20 A                           | -                 |

|                                                                                     |                                           |                                |                                |                   |
|-------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|--------------------------------|-------------------|
|  | <b>cUL Listed</b><br>Approval ID: E468743 |                                |                                |                   |
|                                                                                     |                                           | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG |
|                                                                                     |                                           | 600 V                          | 20 A                           | - 12              |

**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 |
|----------|----------|

### 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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