

## Panel feed-through - QPD W 2PE1,5 4-9 M20 FC BK - 1414686

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Panel feed-through, QUICKON connection, number of positions: 2+PE, 0.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, 690 V, 15 A, black, with QUICKON nut, cable diameter range: 5 mm ... 9.5 mm, assembly thread: M20, Slip-on connection (For slip-on sleeves according to DIN 46247-2), 1.5 mm<sup>2</sup>

### Your advantages

- ✓ Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- ✓ Convenient: quick and easy assembly without special tools
- ✓ Robust throughout: housing with IP68/IP69K and IK07 protection for a wide range of applications
- ✓ Safer connection thanks to polarization against mismatching and touch-proof protection according to DIN EN 0105
- ✓ Efficient - by using panel feed-throughs, devices no longer need to be opened in order to connect cables



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 055626 031392 |
| GTIN         | 4055626031392                                                                                           |

### Technical data

#### General

|                                       |                     |
|---------------------------------------|---------------------|
| Type                                  | QPD 3x1,5           |
| Color                                 | black               |
| Locking type                          | Screw locking       |
| Connection method                     | QUICKON connection  |
|                                       | IDC connection      |
| Number of positions                   | 3                   |
| Note number of positions              | 2+PE                |
| Tightening torque, union nut          | 8 Nm                |
| Tightening torque, counter nut        | 5 Nm                |
| Number of connections                 | 10                  |
| Conductor cross section flexible min. | 0.5 mm <sup>2</sup> |

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## Technical data

### General

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section flexible max. | 1.5 mm <sup>2</sup> |
| Conductor cross section solid min.    | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.    | 1.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 20                  |
| Conductor cross section AWG max.      | 16                  |
| Dimensions of slip-on connection      | 4.8 x 0.8 mm        |

### Cable

|                                                                             |                                    |
|-----------------------------------------------------------------------------|------------------------------------|
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm |
| Wire insulation material                                                    | PVC/PE/TPE/rubber                  |
| Wire diameter including insulation                                          | 1.6 mm ... 3 mm                    |
| External cable diameter                                                     | 5 mm ... 9.5 mm                    |
| Conductor cross section                                                     | 1.5 mm <sup>2</sup>                |
| Position marking                                                            | 1, 2, PE                           |

### Ambient conditions

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

### Electrical characteristics

|                                |          |
|--------------------------------|----------|
| Nominal current I <sub>N</sub> | 15 A     |
| Nominal voltage U <sub>N</sub> | 690 V AC |
|                                | 690 V DC |
| Rated current                  | 17.5 A   |
| Rated voltage (III/3)          | 690 V    |
| Rated voltage (III/2)          | 1000 V   |
| Rated voltage (II/2)           | 1000 V   |
| Rated surge voltage (III/3)    | 6 kV     |
| Rated surge voltage (III/2)    | 8 kV     |
| Rated surge voltage (II/2)     | 8 kV     |

### Mechanical characteristics

|                          |         |
|--------------------------|---------|
| QUICKON connectability   | max. 10 |
| Category of shock impact | IK07    |

### Material data

|                          |               |
|--------------------------|---------------|
| Contact material         | Cu            |
| Contact surface material | silver-plated |
| Contact carrier material | PA            |

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### Technical data

#### Material data

|                                        |     |
|----------------------------------------|-----|
| Insulating material                    | PA  |
| Flammability rating according to UL 94 | V0  |
| Overvoltage category                   | III |
| Degree of pollution                    | 3   |

#### Standards and Regulations

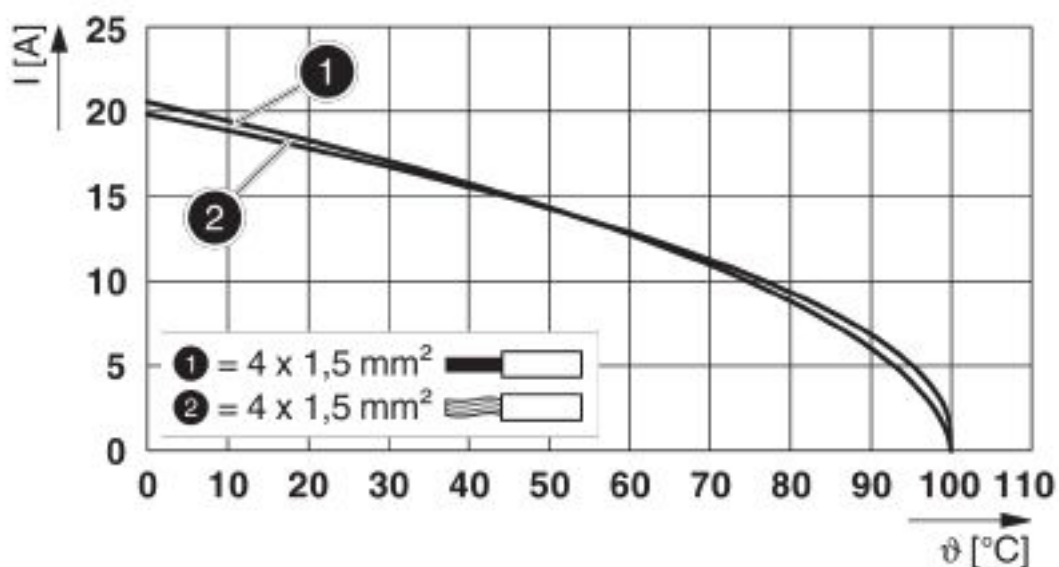
|                                        |      |
|----------------------------------------|------|
| Category of shock impact               | IK07 |
| Flammability rating according to UL 94 | V0   |

#### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Drawings

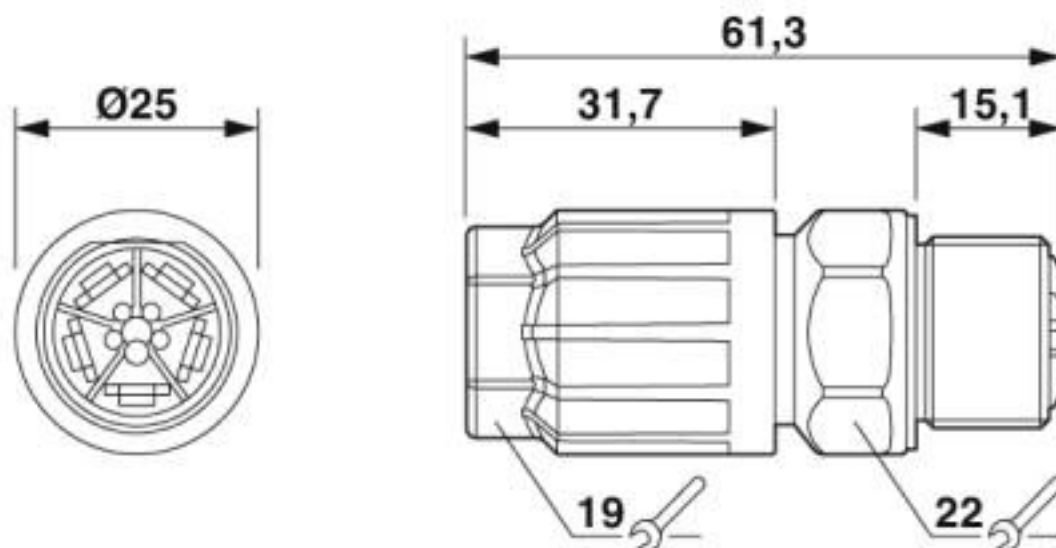
Diagram



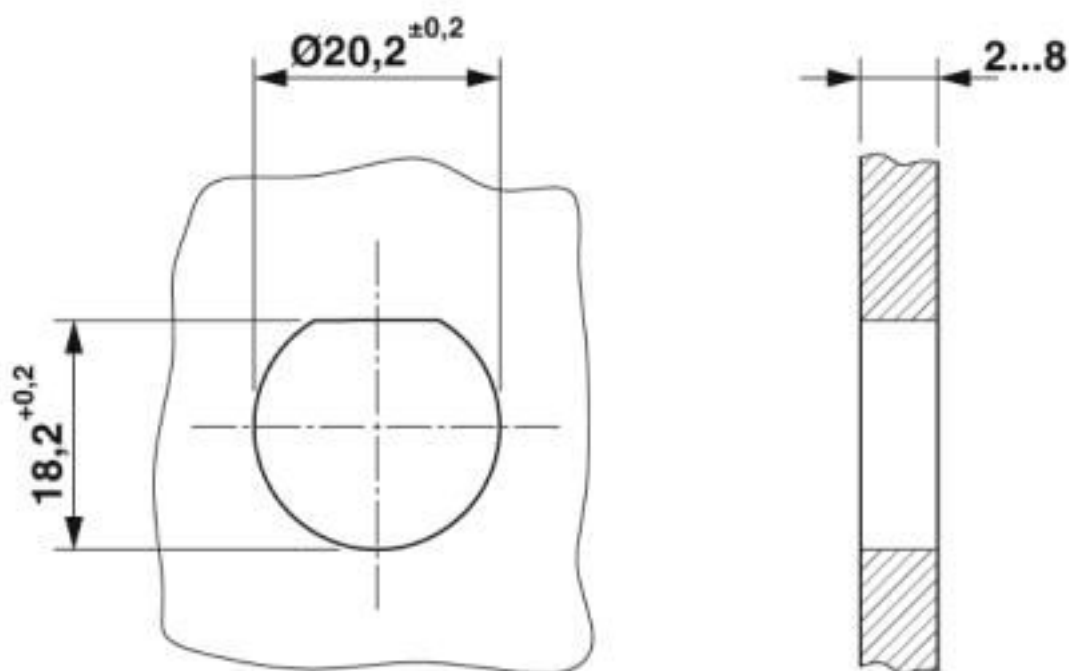
Derating diagram

## Panel feed-through - QPD W 2PE1,5 4-9 M20 FC BK - 1414686

Dimensional drawing



Dimensional drawing



Housing cutout

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440602 |
| eCl@ss 4.0    | 27141200 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.1 | 27141200 |
| eCl@ss 5.0 | 27149100 |
| eCl@ss 5.1 | 27149100 |
| eCl@ss 6.0 | 27149100 |
| eCl@ss 7.0 | 27440602 |
| eCl@ss 8.0 | 27440602 |
| eCl@ss 9.0 | 27440602 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002566 |
| ETIM 6.0 | EC002566 |
| ETIM 7.0 | EC002566 |

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 39121413 |
| UNSPSC 18.0 | 39121522 |
| UNSPSC 19.0 | 39121522 |
| UNSPSC 20.0 | 39121522 |
| UNSPSC 21.0 | 39121522 |

### Approvals

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EAC / EAC / DNV GL / IECCEB Scheme / UL Listed / cUL Listed / VDE Zeichengenehmigung / cULus Listed

#### Ex Approvals

#### Approval details

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00511 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

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### Approvals

|        |                                                                                   |                                                                                   |            |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00003J5 |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|

|                 |                                                                                   |                                                           |           |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-61559 |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|

|                    |                                                                                   |                                                                                                                                                       |         |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E468743 |
| Nominal voltage UN |                                                                                   | 600 V                                                                                                                                                 |         |
| Nominal current IN |                                                                                   | 8 A                                                                                                                                                   |         |
| mm²/AWG/kcmil      |                                                                                   | 16                                                                                                                                                    |         |

|                    |                                                                                     |                                                                                                                                                       |         |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E468743 |
| Nominal voltage UN |                                                                                     | 600 V                                                                                                                                                 |         |
| Nominal current IN |                                                                                     | 8 A                                                                                                                                                   |         |
| mm²/AWG/kcmil      |                                                                                     | 16                                                                                                                                                    |         |

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40029149 |
| Nominal voltage UN     |                                                                                     | 690 V                                                                                                                                                                                                     |          |
| Nominal current IN     |                                                                                     | 17.5 A                                                                                                                                                                                                    |          |
| mm²/AWG/kcmil          |                                                                                     | 0.5-1.5                                                                                                                                                                                                   |          |

|              |                                                                                     |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|
| cULus Listed |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|

### Accessories

Accessories

Coding element

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### Accessories

Coding profile - CP-QPD 3/4X1,5 - 1414729



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

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### Protective cap

Protective cap - QPD QSK BK 3/4X1,5 FS - 1414722



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

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Protective cap - QPD QSK 3/4X1,5 - 1414723



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

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### Sealing plugs

Closing cap - SEALING PLUG 7X16 RD - 1400255



Closing cap, material: PA, color: red

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Flat nut - Q-MU-M20 BK - 1586099



Flat nut, color: black

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