

## T distributor - QPD T3PE2,5 2X6-10 BK - 1424047

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T distributor, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, With two QUICKON nuts, cable diameter range: 6 mm ... 10 mm

### 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
- ✓ Flexible and compact - by connecting connections internally, H and T-distributors can be used to branch master cables or they can be used as star distributors

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 055626 366494 |
| GTIN         | 4055626366494                                                                                           |

### Technical data

#### General

|                                       |                    |
|---------------------------------------|--------------------|
| Type                                  | T-distributor      |
| Color                                 | black              |
| Locking type                          | Screw locking      |
| Connection method                     | QUICKON connection |
|                                       | IDC connection     |
| Number of positions                   | 4                  |
| Note number of positions              | 3+PE               |
| Wrench size, union nut                | 22 mm              |
| Tightening torque, union nut          | 7 Nm               |
| Number of connections                 | 3                  |
| Conductor cross section flexible min. | 1 mm <sup>2</sup>  |

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## Technical data

### General

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section solid min.    | 1 mm <sup>2</sup>   |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 16                  |
| Conductor cross section AWG max.      | 14                  |

### Cabel

|                                                                             |                                    |
|-----------------------------------------------------------------------------|------------------------------------|
| 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                                          | 2 mm ... 3.6 mm                    |
| External cable diameter                                                     | 6 mm ... 10 mm                     |
| Position marking                                                            | 1, 2, 3, PE                        |

### Ambient conditions

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Degree of protection                    | IP66                                    |
|                                         | IP68 (2 m / 24 h)                       |
|                                         | IP69K (Distance from the nozzle 150 mm) |
| 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> | 20 A     |
| Nominal voltage U <sub>N</sub> | 690 V AC |
|                                | 690 V DC |
| Rated current                  | 20 A     |
| Rated voltage (III/3)          | 690 V    |
| Rated voltage (III/2)          | 690 V    |
| Rated voltage (II/2)           | 1000 V   |
| Rated surge voltage (III/3)    | 6 kV     |
| Rated surge voltage (III/2)    | 6 kV     |
| Rated surge voltage (II/2)     | 6 kV     |

### Mechanical characteristics

|                             |                                  |
|-----------------------------|----------------------------------|
| QUICKON connectability      | max. 10                          |
| Insertion/withdrawal cycles | 10 (QUICKON connections max. 10) |
| Category of shock impact    | IK07 (-25 °C)                    |

### Material data

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

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### Technical data

#### Material data

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

#### Standards and Regulations

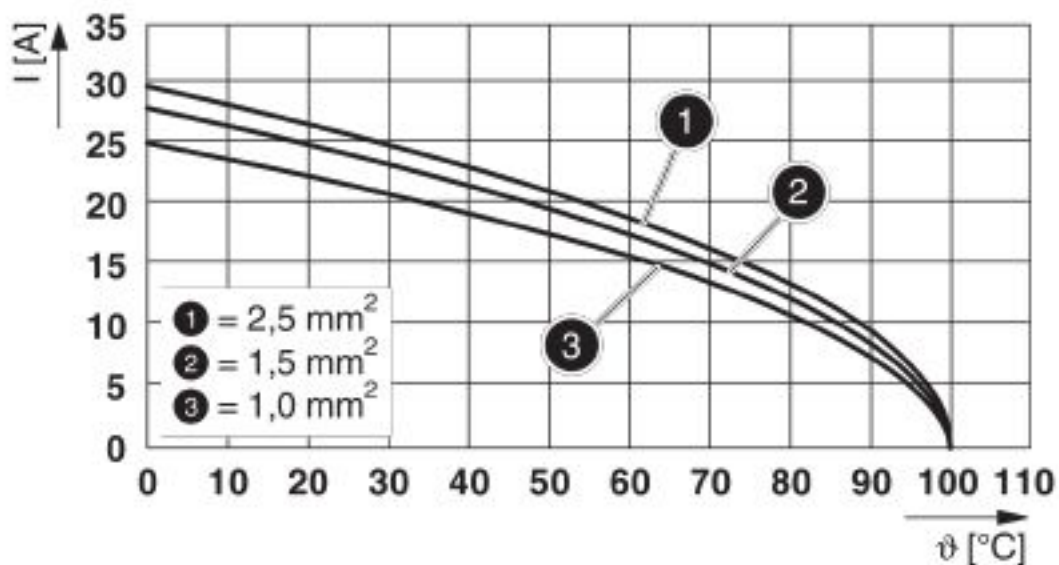
|                                        |               |
|----------------------------------------|---------------|
| Category of shock impact               | IK07 (-25 °C) |
| Halogen-free                           | yes           |
| Flammability rating according to UL 94 | V0            |

#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

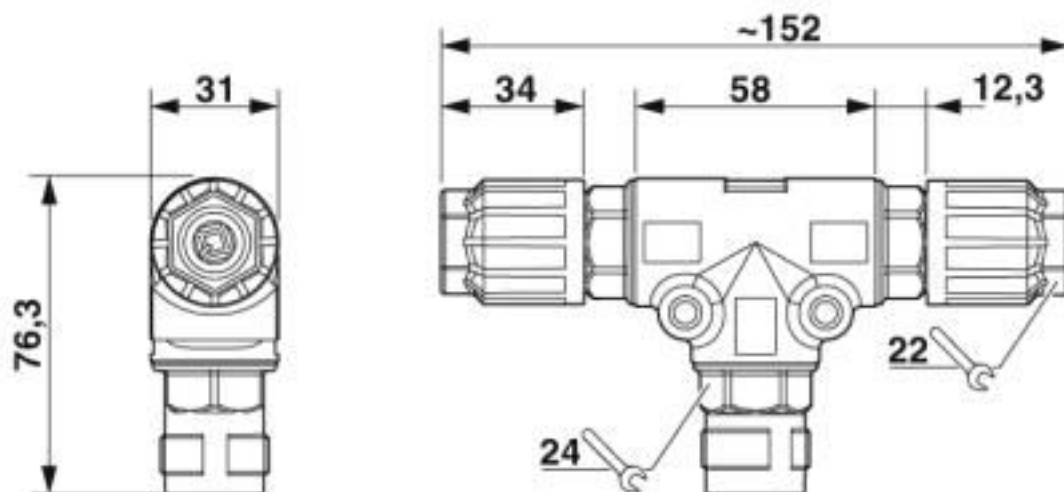
Diagram



Derating diagram

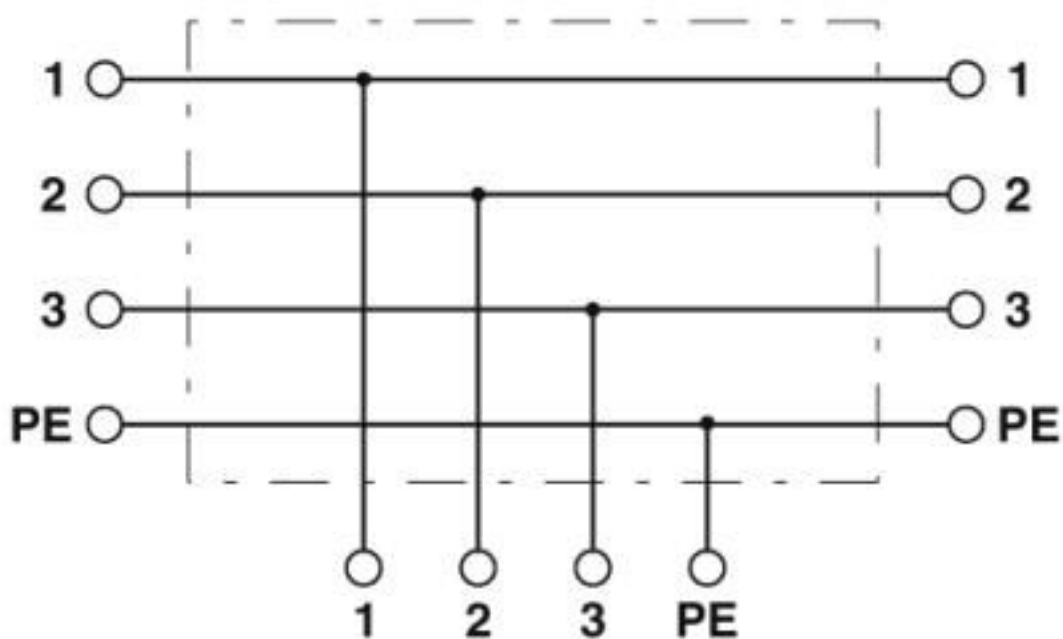
## T distributor - QPD T3PE2,5 2X6-10 BK - 1424047

Dimensional drawing



Dimensional drawing

Circuit diagram



### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440603 |
| eCl@ss 7.0    | 27440603 |
| eCl@ss 8.0    | 27440603 |
| eCl@ss 9.0    | 27440603 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 6.0 | EC002567 |
| ETIM 7.0 | EC002567 |

## Approvals

### Approvals

#### Approvals

EAC / IECEE CB Scheme / UL Listed / cUL Listed / VDE Zeichengenehmigung / cULus Listed

#### Ex Approvals

### Approval details

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

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

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

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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     | 20 A                                                                                |                                                                                                                                                                                                           |          |
| mm²/AWG/kcmil          | 1-2.5                                                                               |                                                                                                                                                                                                           |          |

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### Approvals

cULus Listed



### Accessories

#### Accessories

#### Coding element

Coding profile - CP QPD 4X2,5 - 1425950



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

#### Protective cap

Protective cap - QPD QSK 5X1,5 - 1414758



Protective cap plastic, for QPD-QUICKON connection 5x 1.5 mm<sup>2</sup>, IP50

Protective cap - QPD QSK BK 5X1,5 FS - 1414728



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

#### Sealing plugs

Closing cap - SEALING PLUG 10X16 RD - 1400284



Closing cap, material: PA, for threads pluggable, color: red

#### Socket spanner

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### Accessories

Socket wrench - QSS 22 - 1670206



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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