

# QPD T3PE2,5 3X6-10 BK - T distributor



1424045

<https://www.phoenixcontact.com/us/products/1424045>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, With three QUICKON nuts, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

## 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
- 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

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1424045             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF50                |
| Product key                          | BF6DBB              |
| Catalog page                         | Page 482 (C-2-2019) |
| GTIN                                 | 4055626366470       |
| Weight per piece (including packing) | 172.3 g             |
| Weight per piece (excluding packing) | 173.3 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | PL                  |

# QPD T3PE2,5 3X6-10 BK - T distributor



1424045

<https://www.phoenixcontact.com/us/products/1424045>

## Technical data

### Product properties

|                       |                   |
|-----------------------|-------------------|
| Product type          | Power distributor |
| Product family        | QPD               |
| Type                  | T distributor     |
| Number of positions   | 4                 |
| Connection profile    | 3+PE              |
| Position marking      | 1, 2, 3, PE       |
| Number of connections | 3                 |
| No. of cable outlets  | 3                 |
| Coding                | Coding profile    |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 05 |
|------------------|----|

### Insulation characteristics

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

### Connection data

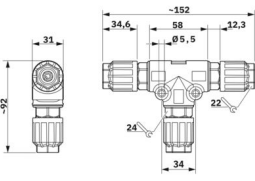
#### Connection technology

|                                                                       |                |
|-----------------------------------------------------------------------|----------------|
| Connection method                                                     | IDC connection |
| Frequency of connections between conductors of the same cross section | max. 10        |

#### Conductor connection

|                                  |                   |
|----------------------------------|-------------------|
| Conductor cross section flexibel | 1 mm² ... 2.5 mm² |
| Conductor cross section solid    | 1 mm² ... 2.5 mm² |
| Connection cross section AWG     | 16 ... 14         |
| Tightening torque Union nut      | 10 Nm             |
| Wrench size Union nut            | 22 mm             |

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 92 mm                                                                                |
| Height              | 31 mm                                                                                |
| Length              | 152 mm                                                                               |

1424045

<https://www.phoenixcontact.com/us/products/1424045>

## 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               | 20 A     |
| Contact resistance          | < 3 mΩ   |
| rated voltage (II/2)        | 1000 V   |
| rated voltage (III/2)       | 690 V    |
| Rated voltage (III/3)       | 690 V    |
| Nominal voltage $U_N$       | 690 V AC |
|                             | 690 V DC |
| Nominal current $I_N$       | 20 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

|                                                                             |                                    |
|-----------------------------------------------------------------------------|------------------------------------|
| 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 ... 10 mm                     |
| Wire diameter including insulation                                          | 2 mm ... 3.6 mm                    |
| Position marking                                                            | 1, 2, 3, PE                        |
| Material wire insulation                                                    | PVC/PE/TPE/rubber                  |
| Halogen-free                                                                | yes                                |

## Environmental and real-life conditions

### Ambient conditions

|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| Degree of protection                 | IP66                                    |
|                                      | IP68 (2 m / 24 h)                       |
|                                      | IP69K (Distance from the nozzle 150 mm) |
|                                      | Touch-proof when not plugged in (IP2X)  |
| Impact strength                      | IK07 (-25 °C)                           |
| Ambient temperature (operation)      | -40 °C ... 100 °C                       |
| Temperature when conductor connected | -5 °C ... 50 °C                         |

# QPD T3PE2,5 3X6-10 BK - T distributor

1424045

<https://www.phoenixcontact.com/us/products/1424045>



|                                         |                   |
|-----------------------------------------|-------------------|
| Ambient temperature (storage/transport) | -40 °C ... 100 °C |
|-----------------------------------------|-------------------|

# QPD T3PE2,5 3X6-10 BK - T distributor

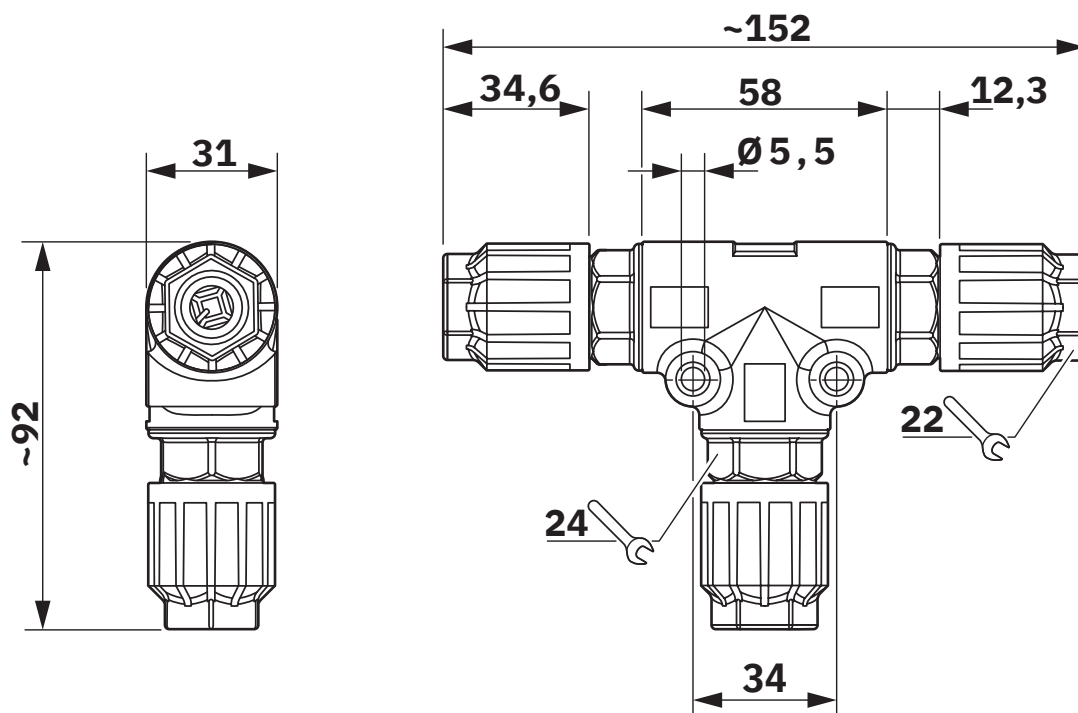
1424045

<https://www.phoenixcontact.com/us/products/1424045>



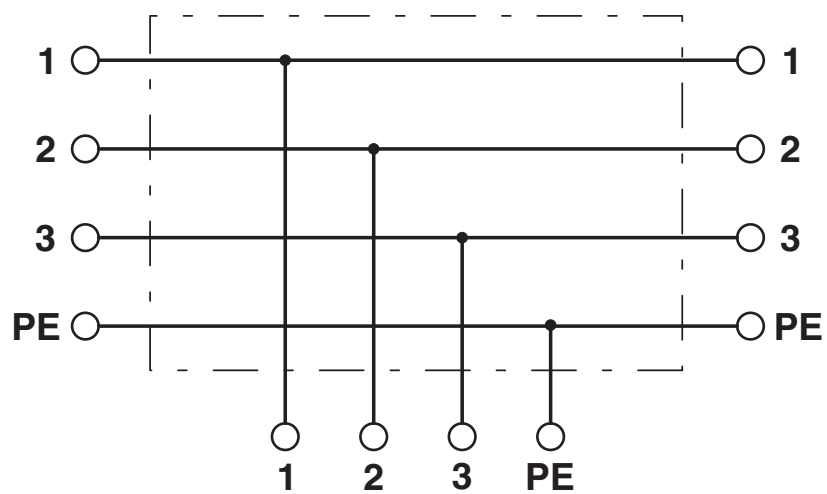
## Drawings

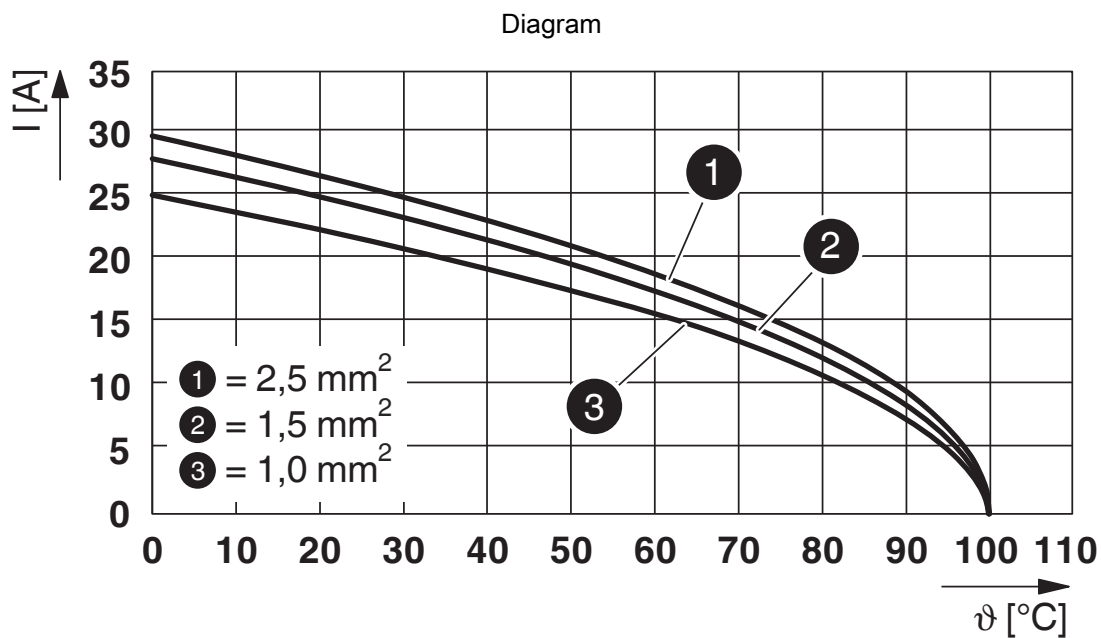
Dimensional drawing



Dimensional drawing

Circuit diagram





Derating diagram

# QPD T3PE2,5 3X6-10 BK - T distributor



1424045

<https://www.phoenixcontact.com/us/products/1424045>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424045>



**IECEE CB Scheme**

Approval ID: DE1-65875



**EAC**

Approval ID: RU C-DE.BL08.B.00511



**VDE Zeichengenehmigung**

Approval ID: 40029149



**UL Listed**

Approval ID: E468743



**cUL Listed**

Approval ID: E468743

**cULus Listed**

# QPD T3PE2,5 3X6-10 BK - T distributor



1424045

<https://www.phoenixcontact.com/us/products/1424045>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440603 |
| ECLASS-12.0 | 27440603 |
| ECLASS-13.0 | 27440603 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002567 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

# QPD T3PE2,5 3X6-10 BK - T distributor



1424045

<https://www.phoenixcontact.com/us/products/1424045>

## 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%               |

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)