

# QPD T 4PE6,0 2X9-14 BK - T distributor



1411416

<https://www.phoenixcontact.com/us/products/1411416>

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.



QUICKON T-distributor, black, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, for cable diameter of 9 mm ... 14 mm, with two QUICKON nuts

## 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	1411416
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	AF6DCC
GTIN	4046356932189
Weight per piece (including packing)	366.6 g
Weight per piece (excluding packing)	365.5 g
Customs tariff number	85366990
Country of origin	PL

## Technical data

### Mounting

Mounting type	direct screw connection
---------------	-------------------------

### Product properties

Product type	Power distributor
Product family	QPD
Type	T distributor
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, 3, N, PE
Number of connections	3
No. of cable outlets	3
Coding	Coding profile

### 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	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	103.9 mm
Height	40 mm
Length	207.8 mm
Wrench size	30 mm

1411416

<https://www.phoenixcontact.com/us/products/1411416>

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 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	9 mm ... 14 mm
Wire diameter including insulation	2.95 mm ... 5 mm
Position marking	1, 2, 3, N, PE
Material wire insulation	PVC/PE/TPE/rubber

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
Impact strength	IK07 (-25 °C)
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

# QPD T 4PE6,0 2X9-14 BK - T distributor

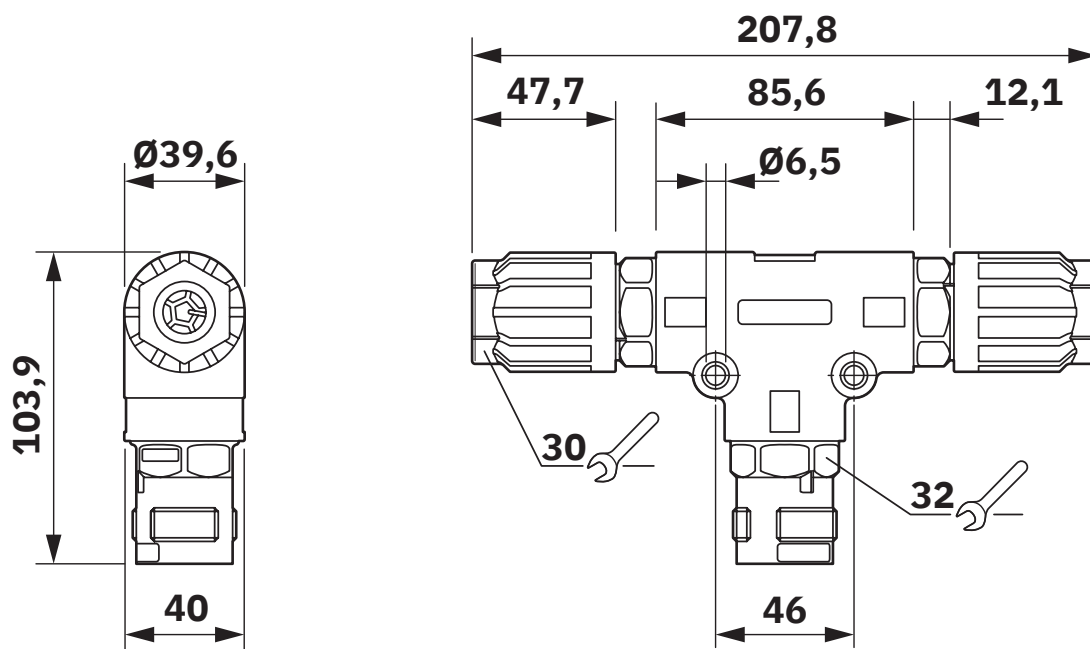


1411416

<https://www.phoenixcontact.com/us/products/1411416>

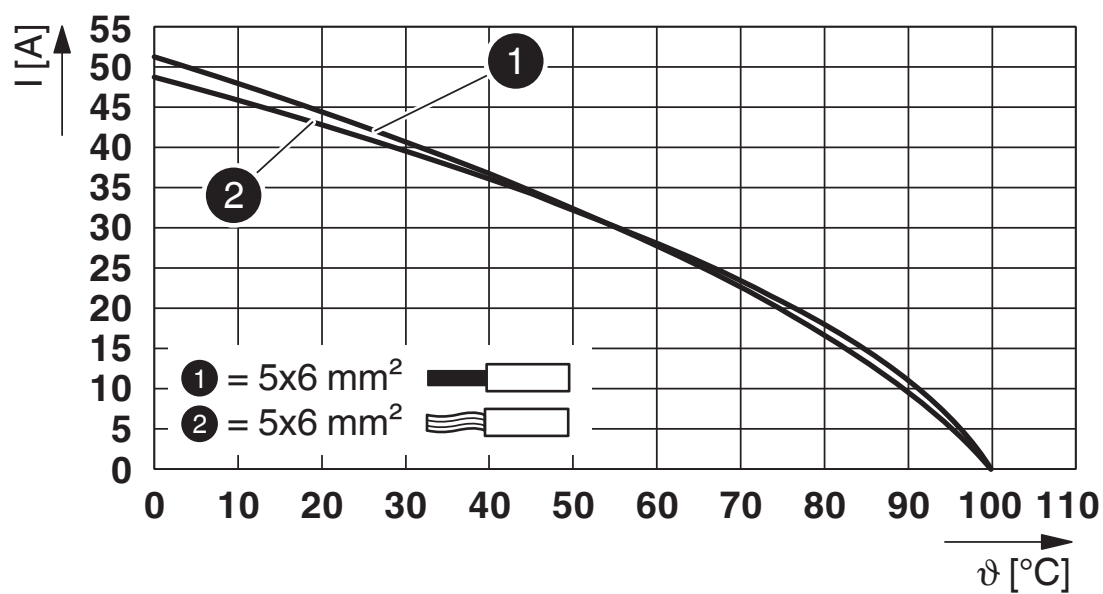
## Drawings

Dimensional drawing



Dimensional drawing

Diagram



Derating diagram

# QPD T 4PE6,0 2X9-14 BK - T distributor



1411416

<https://www.phoenixcontact.com/us/products/1411416>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1411416>



**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 $\text{mm}^2$
keine				
	600 V	20 A	- 12	-



**cUL Listed**  
Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	20 A	- 12	-

1411416

<https://www.phoenixcontact.com/us/products/1411416>

## Classifications

### ECLASS

ECLASS-13.0	27440603
ECLASS-15.0	27440603

### ETIM

ETIM 10.0	EC002567
-----------	----------

### UNSPSC

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

# QPD T 4PE6,0 2X9-14 BK - T distributor



1411416

<https://www.phoenixcontact.com/us/products/1411416>

## 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 2026 © - 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)