QPD T 4PE6,0 2X12-20 BK - T distributor

1411417

https://www.phoenixcontact.com/us/products/1411417

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QUICKON T-distributor, black, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, for cable diameter of 12 mm ... 20 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	1411417
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6DCC
Catalog page	Page 490 (C-2-2019)
GTIN	4046356932196
Weight per piece (including packing)	360.2 g
Weight per piece (excluding packing)	362 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Mounting

Mounting type	direct screw connection
Wrench size	30 mm

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

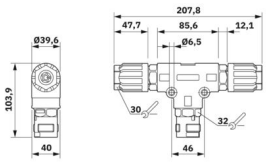
Connection technology

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

Conductor connection

Conductor cross section flexibel	2.5 mm² ... 6 mm²
Conductor cross section solid	2.5 mm² ... 6 mm²
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 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 / rubber / TPE

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	12 mm ... 20 mm
Wire diameter including insulation	2.95 mm ... 5 mm
Position marking	1, 2, 3, N, PE
Material wire insulation	PVC /PE / rubber / TPE

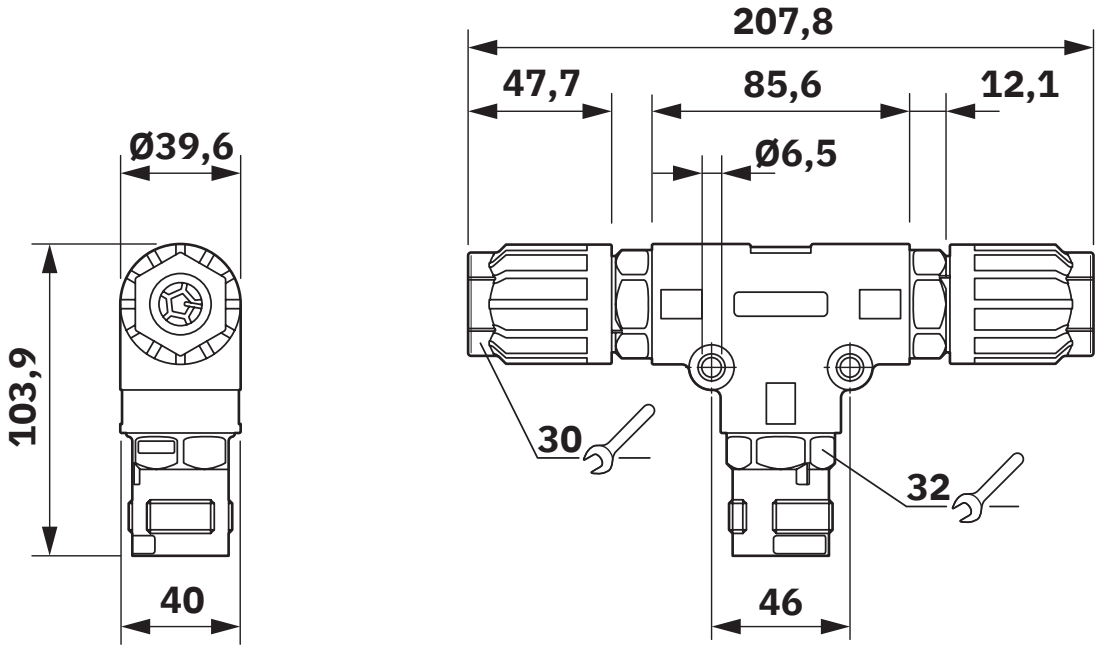
Environmental and real-life conditions

Ambient conditions

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

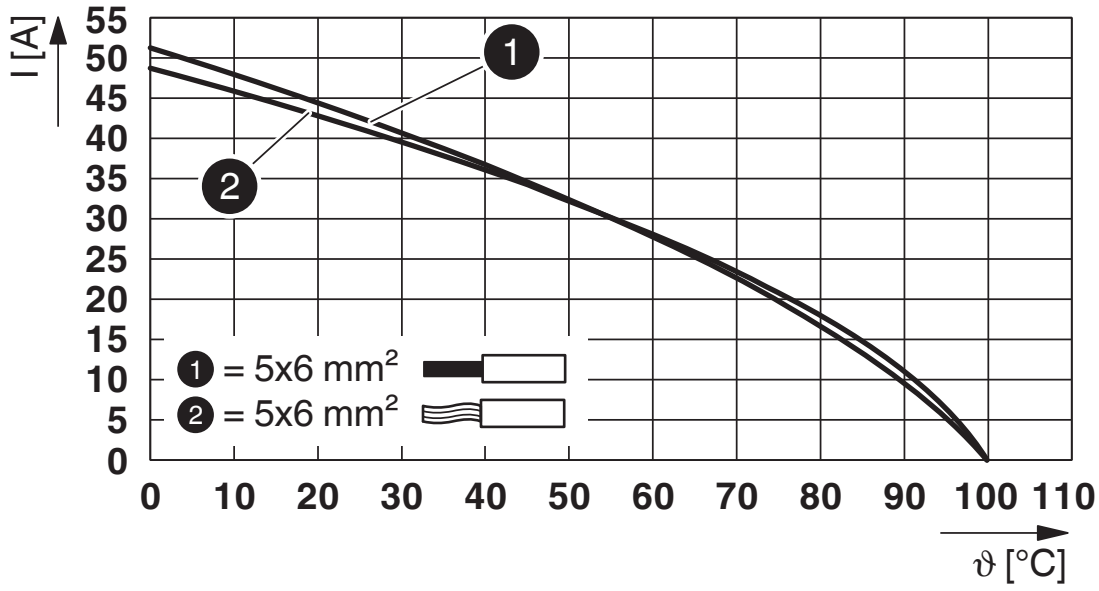
Drawings

Dimensional drawing



Dimensional drawing

Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1411417

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

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	20 A	-	- 12

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	20 A	- 12	-

cULus Listed

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002567

UNSPSC

UNSPSC 21.0	39121400

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%

Mandatory accessories

QPD P 4PE6,0 12-20 BK - Connector

1410387

https://www.phoenixcontact.com/us/products/1410387



Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 2.5 mm^2 ... 6 mm^2, 690 V, 40 A, PA, black, with QUICKON nut, external cable diameter: 12 mm ... 20 mm

QPD P 4PE6,0 12-20 TL BK - Connector

1039565

https://www.phoenixcontact.com/us/products/1039565



Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 2.5 mm^2 ... 6 mm^2, 690 V, 40 A, PA, black, with QUICKON nut, external cable diameter: 12 mm ... 20 mm

QPD N 4PE6,0 12-20 BK - Nut

1410406

https://www.phoenixcontact.com/us/products/1410406



QUICKON nut, black, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, for cables with a diameter of 12 mm ... 20 mm.

Accessories

CP-QPD 5X6,0 - Coding profile

1411402

https://www.phoenixcontact.com/us/products/1411402



Coding profile, red, for insertion into the 5-pos. QUICKON dome and connector, can be positioned in 72° increments.

QPD QSK 5X6,0 - Protective cap

1411403

https://www.phoenixcontact.com/us/products/1411403

Protective cap, black plastic, for 5 x 2.5 mm^2 QPD connector, IP50.



QPD QSK BK 5X6,0 FS - Protective cap

1411400

https://www.phoenixcontact.com/us/products/1411400

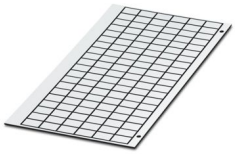
Protective cap, plastic, for QUICKON connection, black, with retaining cord, IP68



GPE 13X 9 WH - Engraving material

0806932

https://www.phoenixcontact.com/us/products/0806932



Engraving material, Sheet, white, unlabeled, can be labeled with: PLOTMARK, ENGRAVING UNIT, CMS-P1-PLOTTER, P1 ENGRAVING UNIT, mounting type: adhesive, lettering field size: 13 x 9 mm, Number of individual labels: 120

EMLP (13X9)R - Label

0819453

https://www.phoenixcontact.com/us/products/0819453



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 13 x 9 mm, Number of individual labels: 500

SEALING PLUG 14X22 RD - Closing cap

1400270

https://www.phoenixcontact.com/us/products/1400270



Closing cap, for threads pluggable, color: red

QPD W 4PE6,0 12-20 M25 0,5 BK - Panel feed-through

1410394

https://www.phoenixcontact.com/us/products/1410394



QUICKON panel feed-through, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 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^2 cable wires, 0.5 m long, cut flat at the end.

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

1410395

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



QUICKON panel feed-through, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 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^2 cable wires, 1.0 m long, cut flat at the end.

QPD C 4PE6,0 1X12-20 BK - Conductor connectors

1410416

https://www.phoenixcontact.com/us/products/1410416



QUICKON cable connector, with a QUICKON nut, black, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, for cable diameter of 12 mm ... 20 mm.

QPD C 4PE6,0 2X12-20 BK - Conductor connectors

1410412

https://www.phoenixcontact.com/us/products/1410412



QUICKON cable connector, black, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, for cable diameter of 12 mm ... 20 mm.

QPD T 4PE6,0 3X12-20 BK - T distributor

1411415

https://www.phoenixcontact.com/us/products/1411415



QUICKON T-distributor, black, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, for cable diameter of 12 mm ... 20 mm, with three QUICKON nuts

QPD T 4PE6,0 2X12-20 BK - T distributor

1411417

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QPD H 4PE6,0 4X12-20 BK - H distributor

1411425

https://www.phoenixcontact.com/us/products/1411425



QUICKON H-distributor, black, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, for cable diameter of 12 mm ... 20 mm, with a sealing bolt.

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