

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



1411417

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

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QUICKON T-distributor, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 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

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1411417

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Commercial Data

Item number	1411417
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	B09
Product Key	BF6DCC
Catalog Page	Page 490 (C-2-2019)
GTIN	4046356932196
Weight per Piece (including packing)	362.1 g
Weight per Piece (excluding packing)	362 g
Customs tariff number	85366990
Country of origin	PL

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1411417

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

Technical Data

Product properties

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

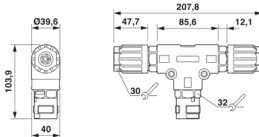
Connection technology

Connection technology	QUICKON connection
Connection system, internal	IDC connection
Frequency of connections between conductors of the same cross section	max. 10

Conductor connection

Conductor cross section solid	2.5 mm ² ... 6 mm ²
Conductor cross section flexible	2.5 mm ² ... 6 mm ²
Conductor cross section AWG	14 ... 10
Wrench size, union nut	30 mm
Tightening torque, union nut	15 Nm

Dimensions

Dimensional drawing	
Width	103.9 mm
Height	40 mm
Length	207.8 mm
Wrench size	30 mm

Electrical properties

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1411417

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

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

Material specifications

Color Housing	black
Flammability rating according to UL 94	V0
Insulating material	PA
Contact material	Cu
Contact surface material	silver-plated
Contact carrier material	PA
Housing material	PA

Connector

Insertion/withdrawal cycles	max. 50
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Cable / line

Cable structure

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

Mounting

Mounting type	direct screw connection
Wrench size	30 mm

Ambient conditions

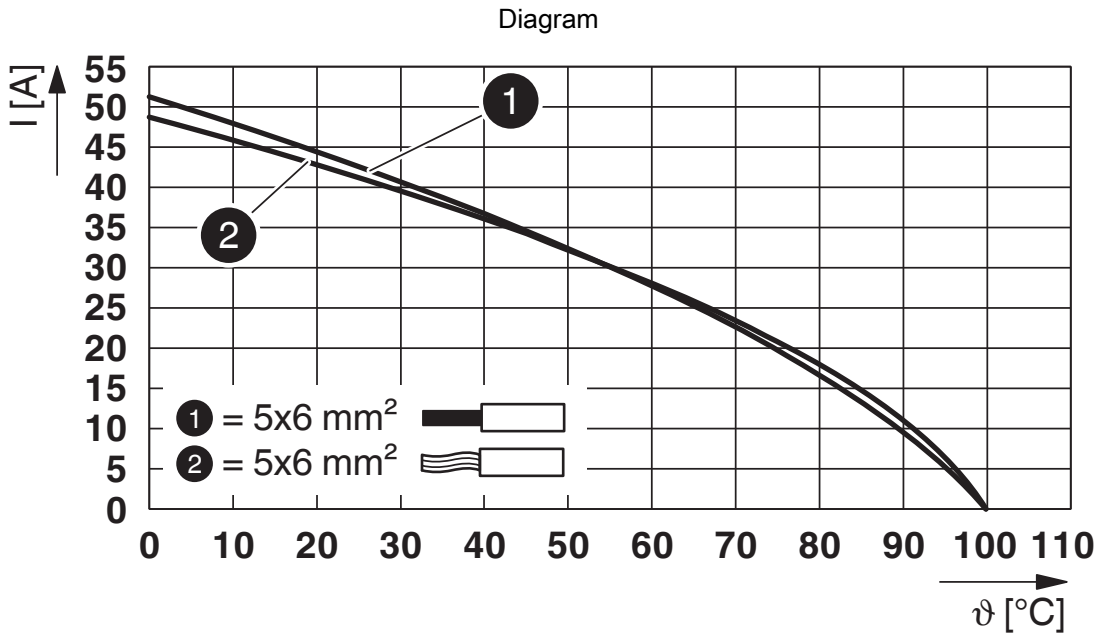
Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

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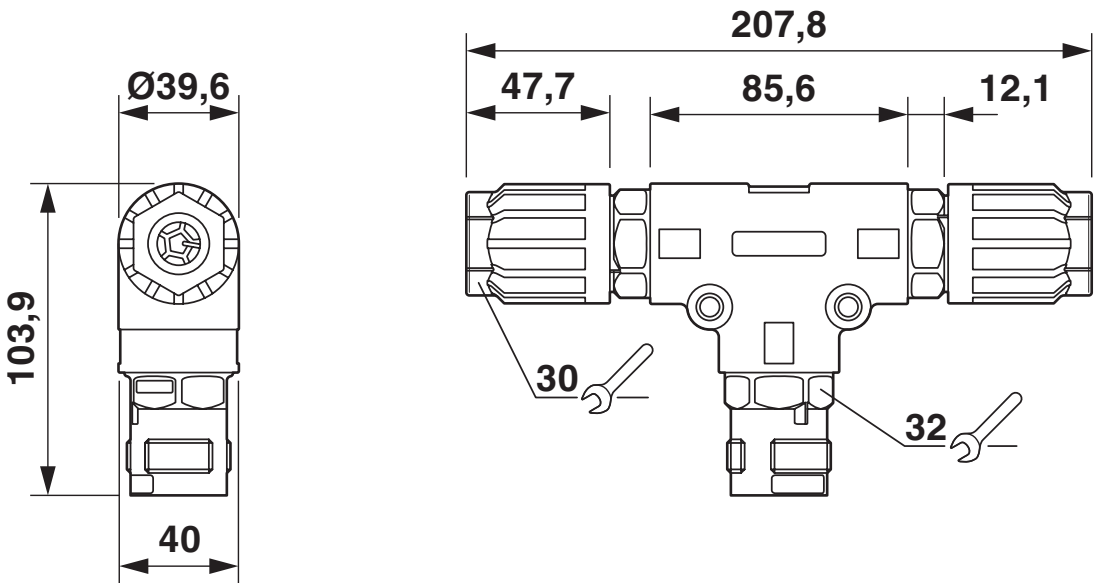
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Drawings



Derating diagram

Dimensional drawing



Dimensional drawing

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



1411417

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Approvals



IECEE CB Scheme

Approval ID: DE1-65875



EAC

Approval ID: RU C-DE.AI30.B.01102



DNV GL

Approval ID: TAE00003J5



EAC

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



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

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Classifications

ECLASS

ECLASS-9.0	27440603
ECLASS-10.0.1	27440603
ECLASS-11.0	27440603

ETIM

ETIM 8.0	EC002567
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UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Mandatory Accessories

Connector

Connector - QPD P 4PE6,0 12-20 BK - 1410387

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



Connector, QUICKON connection, number of positions: 4+PE, 2.5 mm² ... 6 mm², 690 V, 40 A, black, with QUICKON nut, external cable diameter: 12 mm ... 20 mm

Connector

Connector - QPD P 4PE6,0 12-20 TL BK - 1039565

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



Connector, IDC connection, number of positions: 4+PE, 2.5 mm² ... 6 mm², 690 V, 40 A, black, with QUICKON nut, external cable diameter: 12 mm ... 20 mm

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Nut

Nut - QPD N 4PE6,0 12-20 BK - 1410406

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



QUICKON nut, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cables with a diameter of 12 mm ... 20 mm.

Accessories

Coding profile

Coding profile - CP-QPD 5X6,0 - 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.

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Protective cap

Protective cap - QPD QSK 5X6,0 - 1411403

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

Protective cap, black plastic, for 5 x 2.5 mm² QPD connector, IP50.



Protective cap

Protective cap - QPD QSK BK 5X6,0 FS - 1411400

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

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



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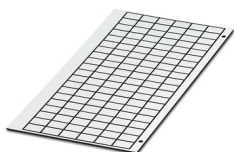
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Engraving material

Engraving material - GPE 13X 9 WH - 0806932

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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

Plastic label

Plastic label - EMLP (13X9)R - 0819453

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



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

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1411417

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Closing cap

Closing cap - SEALING PLUG 14X22 RD - 1400270

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

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



Panel feed-through

Panel feed-through - QPD W 4PE6,0 12-20 M25 0,5 BK - 1410394

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



QUICKON panel feed-through, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, with QUICKON nut, black, for cable diameter of 12 mm ... 20 mm, M25 connection thread with 5 welded-on 6.0 mm² cable wires, 0.5 m long, cut flat at the end.

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Panel feed-through

Panel feed-through - QPD W 4PE6,0 12-20 M25 1,0 BK - 1410395

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QUICKON panel feed-through, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, with QUICKON nut, black, for cable diameter of 12 mm ... 20 mm, M25 connection thread with 5 welded-on 6.0 mm² cable wires, 1.0 m long, cut flat at the end.

Conductor connectors

Conductor connectors - QPD C 4PE6,0 1X12-20 BK - 1410416

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QUICKON cable connector, with a QUICKON nut, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 12 mm ... 20 mm.

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Conductor connectors

Conductor connectors - QPD C 4PE6,0 2X12-20 BK - 1410412

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



QUICKON cable connector, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 12 mm ... 20 mm.

T distributor

T distributor - QPD T 4PE6,0 3X12-20 BK - 1411415

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QUICKON T-distributor, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 12 mm ... 20 mm, with three QUICKON nuts

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H distributor

H distributor - QPD H 4PE6,0 4X12-20 BK - 1411425

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QUICKON H-distributor, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 12 mm ... 20 mm, with a sealing bolt.

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