1411417

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QUICKON T-distributor, black, 4+PE-pos., 2.5 \rm{mm}^2 ... 6.0 $\rm{mm}^2/690$ 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

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1411417

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Technical data

Mounting					
Mounting type	direct screw connection				
Product properties					
Product type	Power distributor				
Product family	QPD				
Туре	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 ² 6 mm ²			
Conductor cross section solid	2.5 mm ² 6 mm ²			
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



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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/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	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/TPE/rubber

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

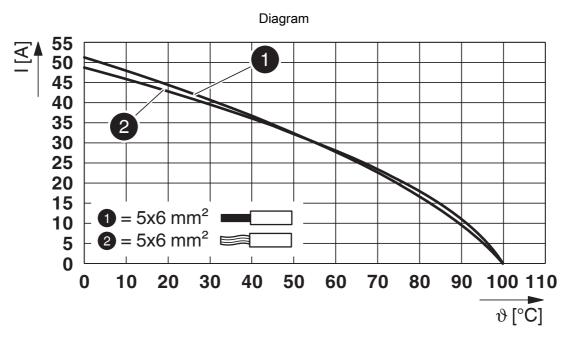
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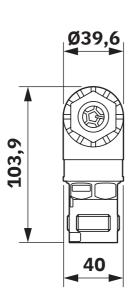
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Drawings

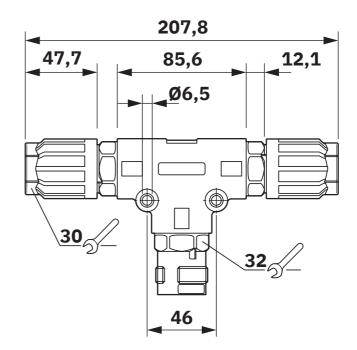


Derating diagram

Dimensional drawing



Dimensional drawing





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Approvals

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

	IECEE CB Scheme Approval ID: DE1-65875				
ERC	EAC Approval ID: RU C-DE.BLC)8.B.00511			
	DNV GL Approval ID: TAE00003J5				
	VDE Zeichengeneh Approval ID: 40029149	nmigung			
	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
B	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	-

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Classifications

ECLASS

ECLASS-11.0 27	27440603
ECLASS-13.0 27	27440603
ECLASS-12.0 27	27440603

ETIM

	ETIM 9.0	EC002567			
UN	UNSPSC				
	UNSPSC 21.0	39121400			

1411417

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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%

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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 mm² ... 6 mm², 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 mm² ... 6 mm², 690 V, 40 A, PA, black, with QUICKON nut, external cable diameter: 12 mm ... 20 mm

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

1410406

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QUICKON nut, black, 4+PE-pos., 2.5 $\rm mm^2$... 6.0 $\rm mm^2/690$ 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.

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QPD QSK 5X6,0 - Protective cap

1411403

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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



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GPE 13X 9 WH - Engraving material

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



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

1411417

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

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.

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 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 12 mm ... 20 mm.

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

1410412

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QUICKON cable connector, black, 4+PE-pos., 2.5 \rm{mm}^2 ... 6.0 $\rm{mm}^2/690$ 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 $\rm mm^2$... 6.0 $\rm mm^2/690$ V/40 A, for cable diameter of 12 mm ... 20 mm, with three QUICKON nuts



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

1411425

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

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