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

1039565

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

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.

Connector, IDC connection, number of positions: 4+PE, 2.5 mm^2 ... 6 mm^2, 690 V, 40 A, black, with QUICKON nut, external cable diameter: 12 mm ... 20 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
- Easy maintenance – the connectors enable fast device replacement and preassembled cables simplify startup

Commercial data

Item number	1039565
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6BCC
Catalog page	Page 493 (C-2-2019)
GTIN	4055626597119
Weight per piece (including packing)	105 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	PL

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

1039565

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

Technical data

Product properties

Type	QPD 5x6,0
Product type	Installation connector
Product family	QPD
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, 3, N, PE
Number of connections per position	1
Series	QPD

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

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	< 4 mΩ
Rated voltage (III/3)	690 V
Nominal voltage U_N	690 V
Nominal current I_N	40 A

Connection data

Connection technology

Connection technology	IDC connection
Connection system, internal	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

Dimensions

Width	39.6 mm
Height	44.1 mm
Length	97.5 mm
Diameter	44.1 mm

Material specifications

Material	PA
Flammability rating according to UL 94	V0
Contact material	Cu
Contact surface material	silver-plated
Contact carrier material	PA

Cable/line

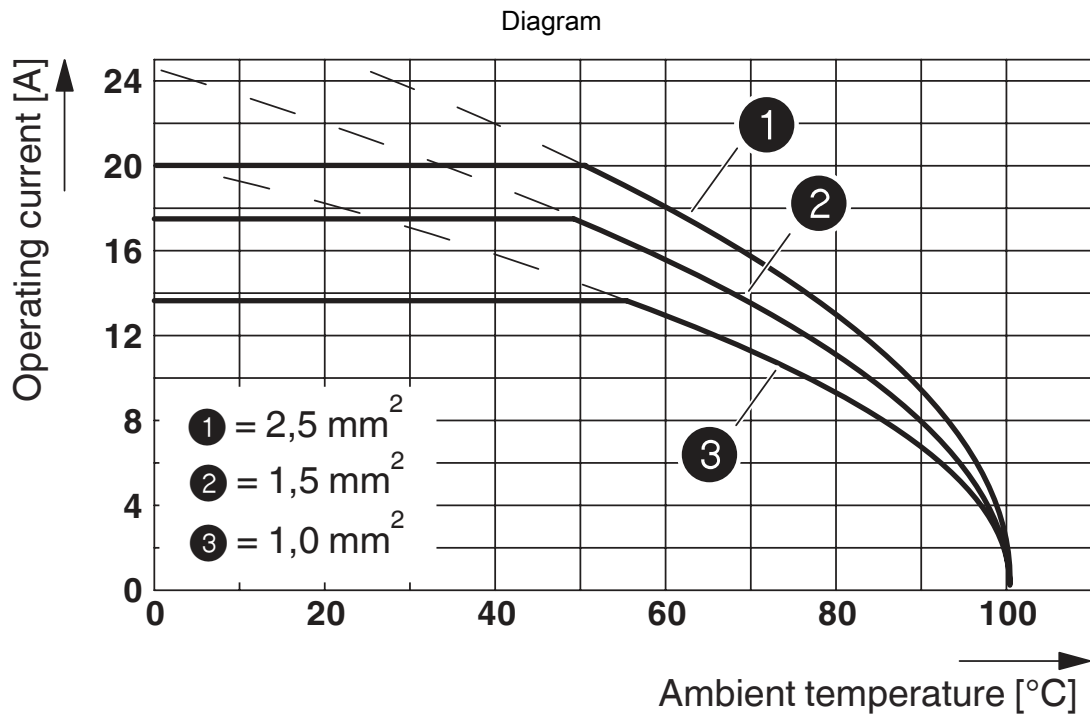|	
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 class 1 to 6/min. 0.15 mm
External cable diameter ()	12 mm ... 20 mm
Wire diameter including insulation	2.95 mm ... 5 mm
Position marking	1, 2, 3, N, PE
Material wire insulation	PVC/PE/TPE/rubber

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	max. 50

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

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

Drawings

Diagram

Legend:
- ① = 2,5 mm^2
- ② = 1,5 mm^2
- ③ = 1,0 mm^2

X-axis: Ambient temperature [°C]
Y-axis: Operating current [A]

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

1039565

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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1039565

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

	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

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

1039565

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

Classifications

ECLASS

ECLASS-11.0	27440605
ECLASS-12.0	27440605
ECLASS-13.0	27440605

ETIM

ETIM 8.0	EC002560

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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

1039565

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

Mandatory accessories

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

1039565

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

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

1039565

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

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

1411417

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

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

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

1039565

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

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.

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

1410396

https://www.phoenixcontact.com/us/products/1410396

QUICKON panel feed-through, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, without QUICKON nut, black, M25 connection thread with 5 welded-on 6.0 mm^2 cable wires, 0.5 m long, cut flat at the end.

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

1039565

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

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

1410397

https://www.phoenixcontact.com/us/products/1410397

QUICKON panel feed-through, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, without QUICKON nut, black, M25 connection thread with 5 welded-on 6.0 mm^2 cable wires, 1.0 m long, cut flat at the end.

QPD H 4PE6,0 BK - H distributor

1411426

https://www.phoenixcontact.com/us/products/1411426

QUICKON H-distributor, black, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, without QUICKON nut.

Accessories

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

1039565

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

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

1039565

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

QPD PSK 5X6,0 - Protective cap

1411404

https://www.phoenixcontact.com/us/products/1411404

Protective cap, transparent plastic, for 5x 6.0 mm^2 QPD QUICKON connection, IP50.

SEALING PLUG 14X22 RD - Closing cap

1400270

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

Closing cap, for threads pluggable, color: red

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

1039565

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

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

1410387

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

Connector, QUICKON connection, number of positions: 4+PE, 2.5 mm^2 ... 6 mm^2, 690 V, 40 A, 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.