

1410387

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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

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	1410387
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6BCC
Catalog page	Page 487 (C-2-2017)
GTIN	4046356929608
Weight per piece (including packing)	101.7 g
Weight per piece (excluding packing)	101.5 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Product properties

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

Connection data

Connection technology

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



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Dimensional drawing	39.6 47.7 39.6 39.6 32.6
Width	39.6 mm
Height	44.1 mm
Length	97.5 mm
Diameter	44.1 mm

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

Mechanical properties

Mechanical data

Leader 1 20 december 1	50
Insertion/withdrawal cycles	max. 50

Environmental and real-life conditions

Ambient conditions

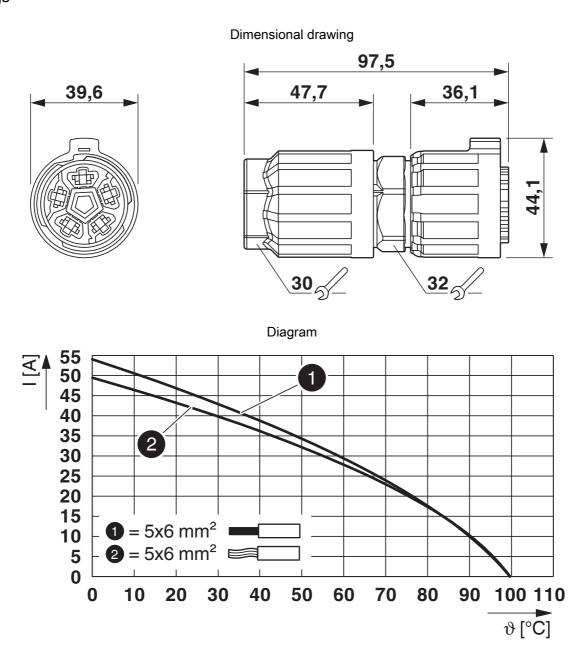
Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
Impact strength	IK07
Ambient temperature (operation)	-40 °C 100 °C
Temperature when conductor connected	-5 °C 50 °C
Ambient temperature (storage/transport)	-40 °C 80 °C



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Drawings



Derating diagram



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Approvals

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IECEE CB Scheme

Approval ID: DE1-65875



DNV GL

Approval ID: TAE00003J5



VDE approval of drawings Approval ID: 40029149

<u>@</u>	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

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cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440605	
ECLASS-13.0	27440605	
ECLASS-12.0	27440605	
ETIM		
ETIM 9.0	EC002560	
UNSPSC		

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Environmental product compliance

EU RoHS

20 10.10	
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%
EF3.0 Climate Change	
CO2e kg	1.129 kg CO2e

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