QPD H3PE2,5 4X6-10 BK - H distributor

1423971

https://www.phoenixcontact.com/us/products/1423971

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H distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with four QUICKON nuts, external cable diameter: 6 mm ... 10 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
- 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	1423971
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6DBB
Catalog page	Page 481 (C-2-2019)
GTIN	4055626365893
Weight per piece (including packing)	250.6 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Product properties

Product type	Power distributor
Product family	QPD
Type	H-distributor
Number of positions	4
Connection profile	3+PE
Position marking	1, 2, 3, PE
Number of connections	4
Number of connections per position	1
No. of cable outlets	4
Coding	Coding profile

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

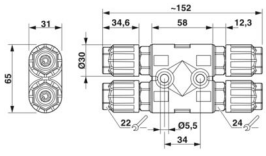
Connection technology

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

Conductor connection

Conductor cross section flexibel	1 mm² ... 2.5 mm²
Conductor cross section solid	1 mm² ... 2.5 mm²
Connection cross section AWG	16 ... 14
Tightening torque Union nut	7 Nm
Wrench size Union nut	22 mm

Dimensions

Dimensional drawing	
Width	65 mm
Height	31 mm
Length	152 mm

Electrical properties

Rated surge voltage (II/2)	6 kV

Rated surge voltage (III/2)	6 kV
Rated surge voltage (III/3)	6 kV
Rated current	20 A
Contact resistance	< 3 mΩ
rated voltage (II/2)	1000 V
rated voltage (III/2)	690 V
Rated voltage (III/3)	690 V
Nominal voltage U_N	690 V AC
	690 V DC
Nominal current I_N	20 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 ()	6 mm ... 10 mm
Wire diameter including insulation	2 mm ... 3.6 mm
Position marking	1, 2, 3, PE
Material wire insulation	PVC /PE / rubber / TPE
Halogen-free	yes

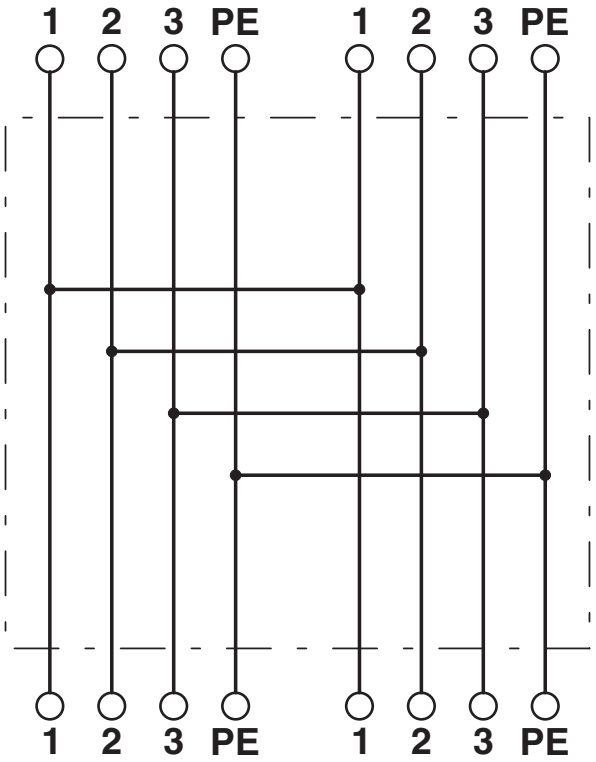
Environmental and real-life conditions

Ambient conditions

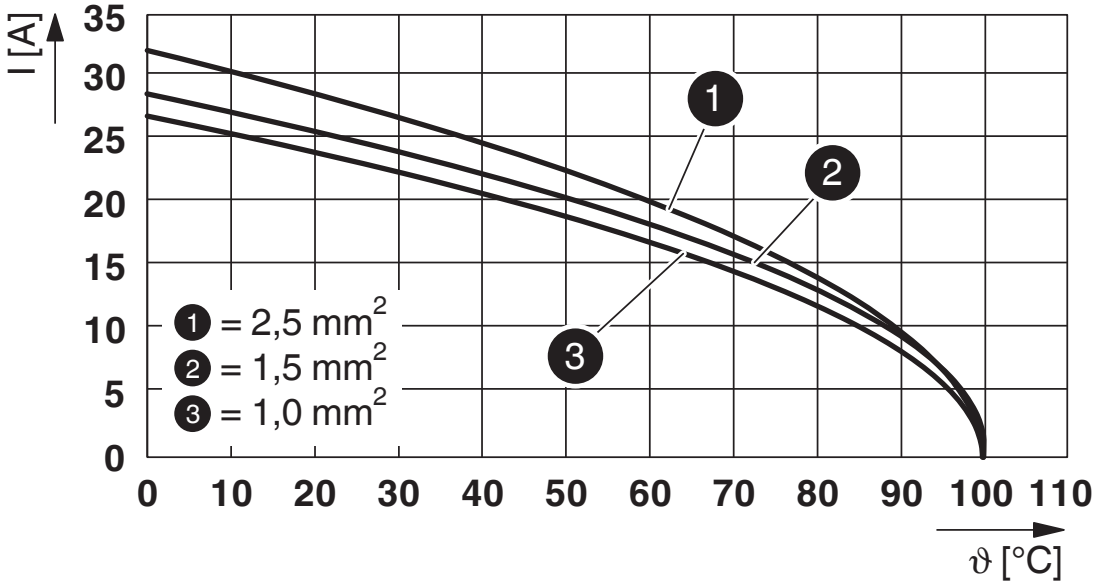
Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K (Distance from the nozzle 150 mm)
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

Drawings

Circuit diagram

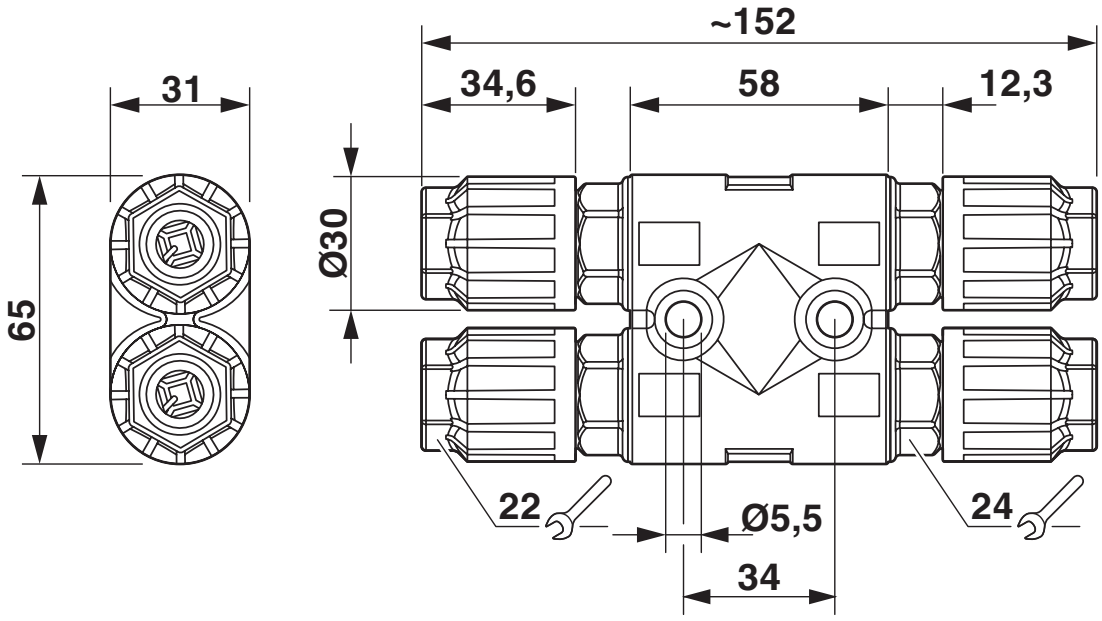


Diagram



Derating diagram

Dimensional drawing



Dimensional drawing

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1423971

IECEE CB Scheme
Approval ID: DE1-65875

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

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	10 A	-	- 16

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	10 A	- 16	-

VDE Zeichengenehmigung
Approval ID: 40029149

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only flexible conductors	400 V	20 A	-	1.5 - 2.5
Only rigid conductors	690 V	20 A	-	1.5 - 2.5

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%

Accessories

CP QPD 4X2,5 - Coding profile

1425950

https://www.phoenixcontact.com/us/products/1425950



Coding profile red, for pushing into the QUICKON dome and connector, can be positioned in 90° steps.

QPD QSK 5X1,5 - Protective cap

1414758

https://www.phoenixcontact.com/us/products/1414758



Protective cap plastic, for QPD-QUICKON connection 5x 1.5 mm^2, IP50

QPD QSK BK 5X1,5 FS - Protective cap

1414728

https://www.phoenixcontact.com/us/products/1414728

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



SEALING PLUG 10X16 RD - Closing cap

1400284

https://www.phoenixcontact.com/us/products/1400284

Closing cap, for threads pluggable, color: red



QPD W3PE2,5 6-10 M25 0,5 BK - Panel feed-through

1423975

https://www.phoenixcontact.com/us/products/1423975



Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 3+PE, M25, Pin, 1 mm^2 ... 2. 5 mm^2, 690 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 6 mm ... 10 mm, 2.5 mm^2, wires cut flat at the end, cable length: 0.5 m

QPD W3PE2,5 6-10 M25 1,0 BK - Panel feed-through

1423974

https://www.phoenixcontact.com/us/products/1423974



Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 3+PE, M25, Pin, 1 mm^2 ... 2. 5 mm^2, 690 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 6 mm ... 10 mm, 2.5 mm^2, wires cut flat at the end, cable length: 1 m

QPD W3PE2,5 6-10 M25 FC BK - Panel feed-through

1423976

https://www.phoenixcontact.com/us/products/1423976



Panel feed-through, product family: QPD, connection method: Spade connection/ IDC connection, number of positions: 3+PE, M25, Pin, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 6 mm ... 10 mm, 2.5 mm^2

QPD W3PE2,5 6-10 M25 DT BK - Panel feed-through

1423977

https://www.phoenixcontact.com/us/products/1423977



Panel feed-through, product family: QPD, connection method: IDC connection/ IDC connection, number of positions: 3+PE, M25, Pin, 1 mm^2 ... 2.5 mm^2, 400 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 6 mm ... 10 mm, 2.5 mm^2

QPD C3PE2,5 1X6-10 BK - Conductor connectors

1423991

https://www.phoenixcontact.com/us/products/1423991



Conductor connectors, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with one QUICKON nut, external cable diameter: 6 mm ... 10 mm

QPD C3PE2,5 2X6-10 BK - Conductor connectors

1423989

https://www.phoenixcontact.com/us/products/1423989



Conductor connectors, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, With two QUICKON nuts, external cable diameter: 6 mm ... 10 mm

QPD T3PE2,5 2X6-10 BK - T distributor

1424047

https://www.phoenixcontact.com/us/products/1424047



T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, With two QUICKON nuts, external cable diameter: 6 mm ... 10 mm

QPD T3PE2,5 3X6-10 BK - T distributor

1424045

https://www.phoenixcontact.com/us/products/1424045



T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, With three QUICKON nuts, external cable diameter: 6 mm ... 10 mm

QPD N2,5 6-10 BK - Nut

1423993

https://www.phoenixcontact.com/us/products/1423993



Nut, product family: QPD, connection method: IDC connection, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, external cable diameter: 6 mm ... 10 mm

QPD P3PE2,5 6-10 BK - Connector

1423987

https://www.phoenixcontact.com/us/products/1423987



Connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 6 mm ... 10 mm

QSS 22 - Socket wrench

1670206

https://www.phoenixcontact.com/us/products/1670206



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com