QPD H3PE2,5 4X9-14 BK - H distributor

1423972

https://www.phoenixcontact.com/us/products/1423972

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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, coding: Coding profile, external cable diameter: 9 mm ... 14 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	1423972
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6DBB
Catalog page	Page 481 (C-2-2019)
GTIN	4055626365909
Weight per piece (including packing)	246 g
Weight per piece (excluding packing)	243 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

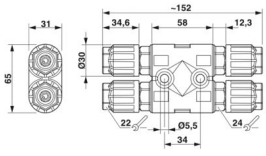
Connection technology

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	10 Nm
Wrench size Union nut	22 mm

Dimensions

Dimensional drawing	
Width	65 mm
Height	31 mm
Length	152 mm
Diameter	5.5 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/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	9 mm ... 14 mm
Wire diameter including insulation	2 mm ... 3.6 mm
Position marking	1, 2, 3, PE
Material wire insulation	PVC/PE/TPE/rubber
Halogen-free	yes

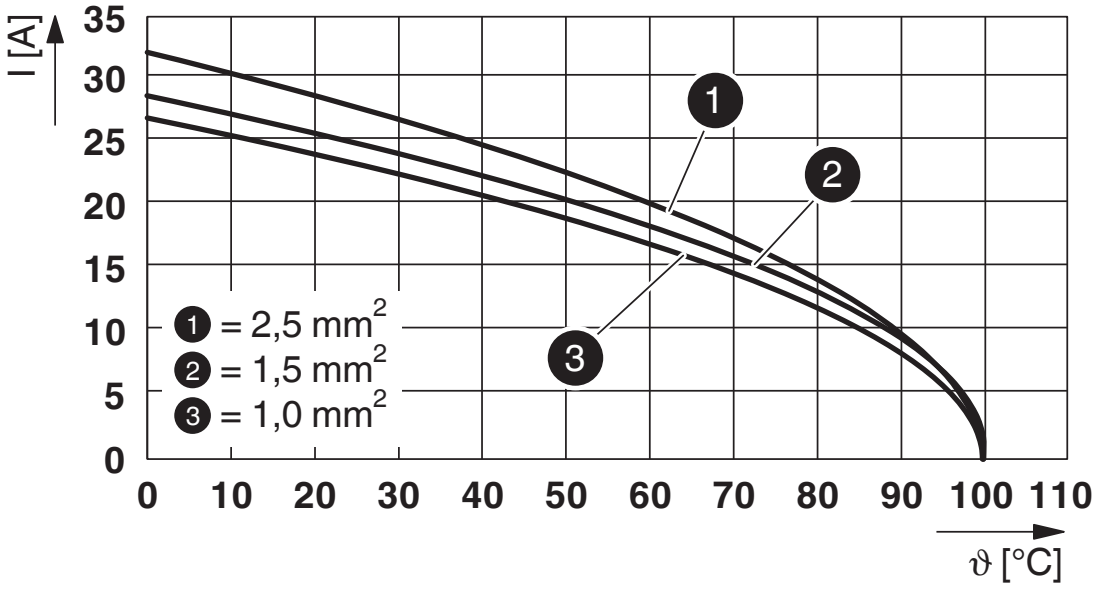
Environmental and real-life conditions

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

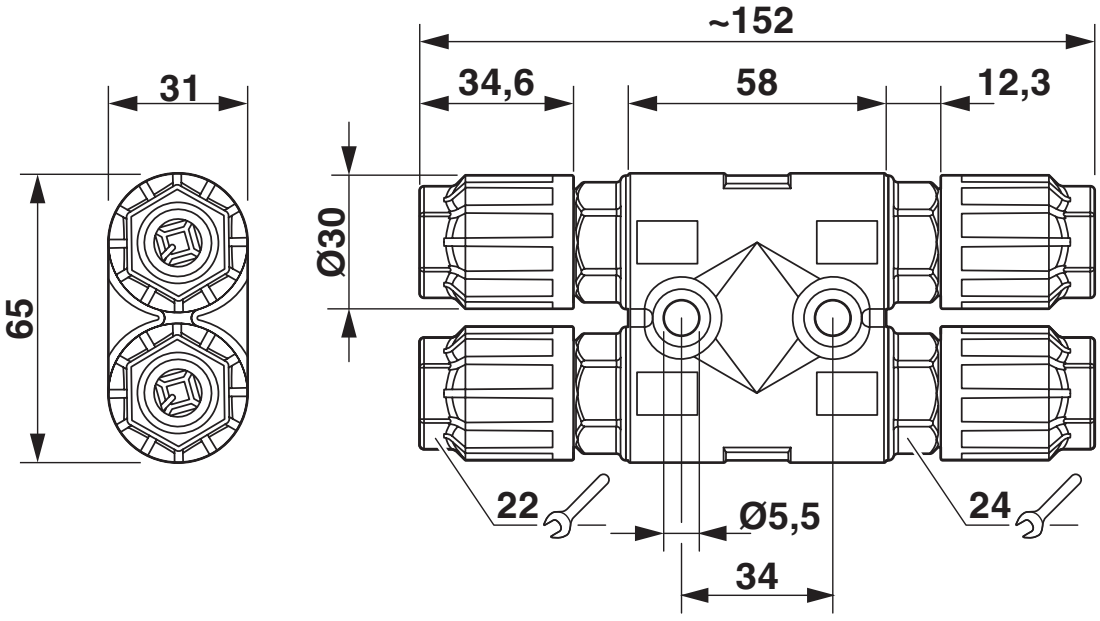
Drawings

Diagram



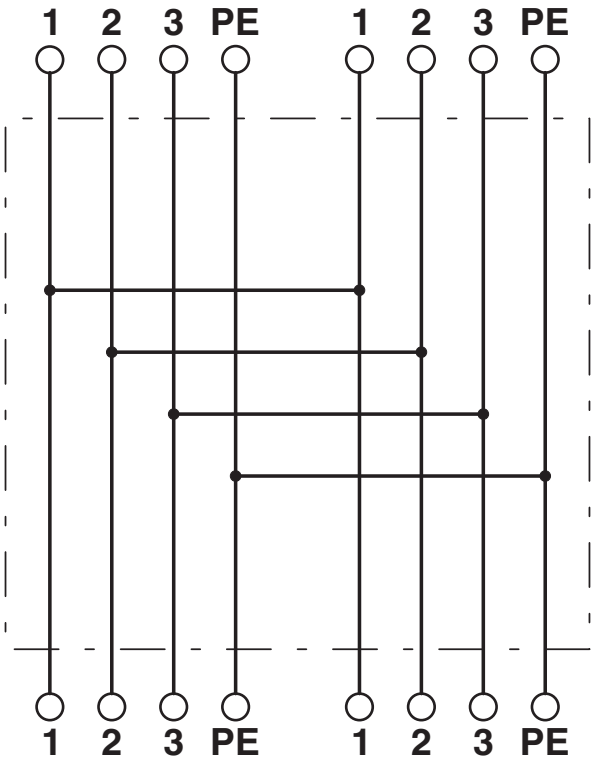
Derating diagram

Dimensional drawing



Dimensional drawing

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1423972

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	12 A	-	- 14

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	12 A	- 14	-

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 14X22 RD - Closing cap

1400270

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

Closing cap, for threads pluggable, color: red



QPD W3PE2,5 9-14 M25 0,5 BK - Panel feed-through

1423980

https://www.phoenixcontact.com/us/products/1423980



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, coding: coded, external cable diameter: 9 mm ... 14 mm, 2.5 mm^2, wires cut flat at the end, cable length: 0.5 m

QPD W3PE2,5 9-14 M25 1,0 BK - Panel feed-through

1423979

https://www.phoenixcontact.com/us/products/1423979



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, coding: coded, external cable diameter: 9 mm ... 14 mm, 2.5 mm^2, wires cut flat at the end, cable length: 1 m

QPD W3PE2,5 9-14 M25 FC BK - Panel feed-through

1423981

https://www.phoenixcontact.com/us/products/1423981



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, coding: coded, external cable diameter: 9 mm ... 14 mm, 2.5 mm^2

QPD W3PE2,5 9-14 M25 DT BK - Panel feed-through

1423982

https://www.phoenixcontact.com/us/products/1423982



Panel feed-through, product family: QPD, connection method: Push-in 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, coding: coded, external cable diameter: 9 mm ... 14 mm, 2.5 mm^2

QPD C3PE2,5 1X9-14 BK - Conductor connector

1423992

https://www.phoenixcontact.com/us/products/1423992



Conductor 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 one QUICKON nut, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

QPD C3PE2,5 2X9-14 BK - Conductor connector

1423990

https://www.phoenixcontact.com/us/products/1423990



Conductor 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 two QUICKON nuts, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

QPD T3PE2,5 2X9-14 BK - T distributor

1424048

https://www.phoenixcontact.com/us/products/1424048



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, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

QPD T3PE2,5 3X9-14 BK - T distributor

1424046

https://www.phoenixcontact.com/us/products/1424046



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, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

QPD N2,5 9-14 BK - Nut

1423994

https://www.phoenixcontact.com/us/products/1423994



Nut, product family: QPD, connection method: IDC connection, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, external cable diameter: 9 mm ... 14 mm

QPD P3PE2,5 9-14 BK - Connector

1423988

https://www.phoenixcontact.com/us/products/1423988



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, coding: Coding profile, external cable diameter: 9 mm ... 14 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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