

QPD H3PE2,5 BK - H distributor

1423973

<https://www.phoenixcontact.com/us/products/1423973>



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H distributor, product family: QPD, connection method: IDC connection/ QUICKON fast connection, number of positions: 3+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: Coding profile

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	1423973
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6DBB
Catalog page	Page 481 (C-2-2019)
GTIN	4055626365916
Weight per piece (including packing)	186.3 g
Weight per piece (excluding packing)	185 g
Customs tariff number	85444290
Country of origin	PL

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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

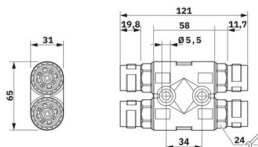
Connection technology

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

Conductor connection

Conductor cross section flexibel	1 mm ² ... 2.5 mm ²
Conductor cross section solid	1 mm ² ... 2.5 mm ²
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	121 mm

Electrical properties

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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
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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
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

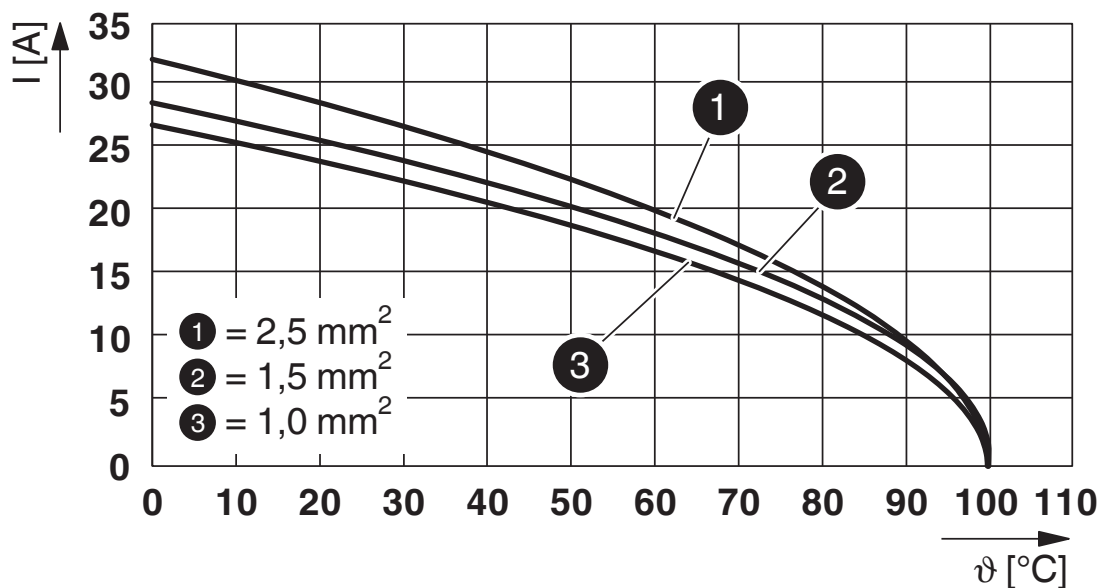
Environmental and real-life conditions

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

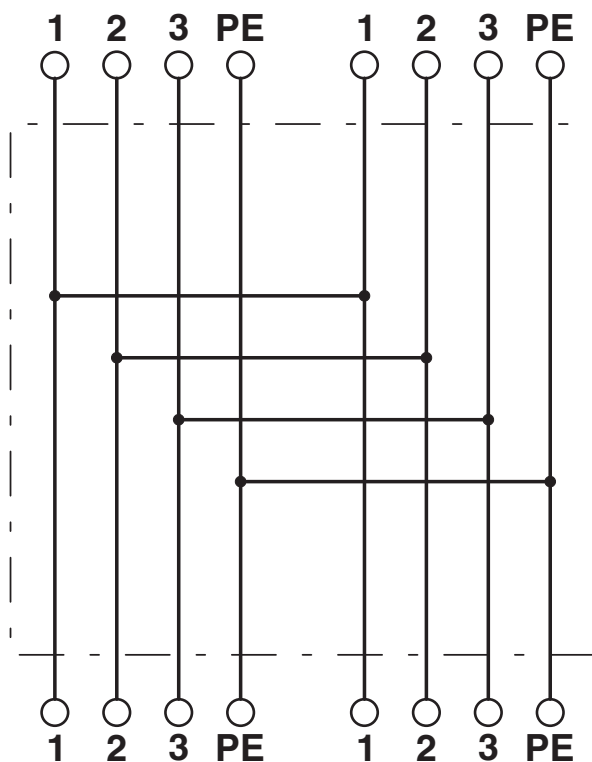
Drawings

Diagram



Derating diagram

Circuit diagram



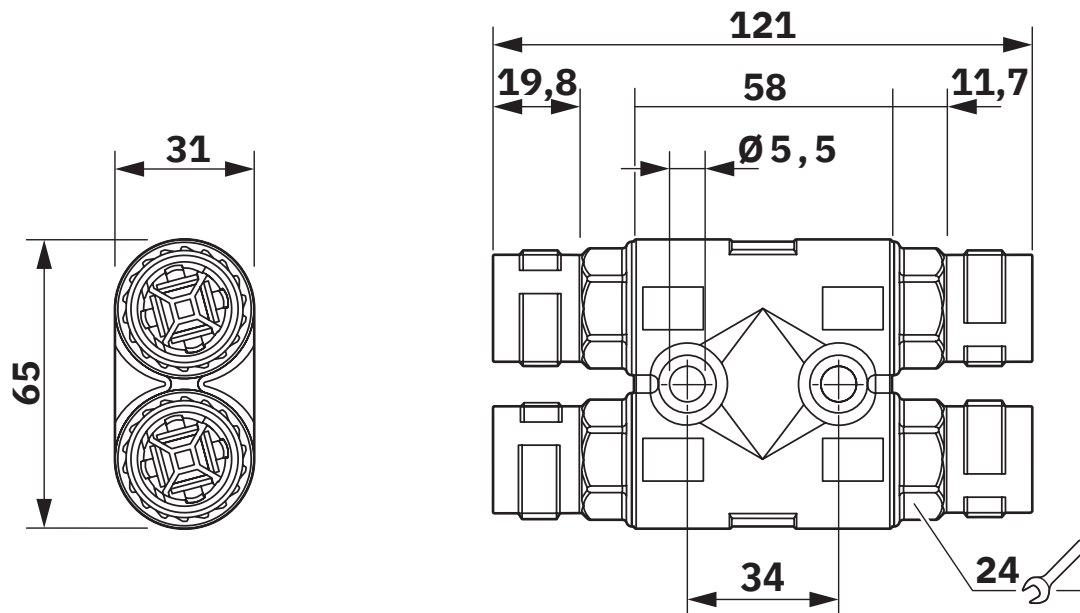
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Dimensional drawing



Dimensional drawing

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1423973>



IECEE CB Scheme
Approval ID: DE1-65875



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



UL Listed
Approval ID: E468743



cUL Listed
Approval ID: E468743

	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

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002567
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UNSPSC

UNSPSC 21.0	39121400
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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 P3PE2,5 6-10 BK - Connector

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Connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD P3PE2,5 9-14 BK - Connector

1423988

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Connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

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QPD N2,5 6-10 BK - Nut

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Nut, product family: QPD, connection method: IDC connection, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, external cable diameter: 6 mm ... 10 mm

QPD N2,5 9-14 BK - Nut

1423994

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Nut, product family: QPD, connection method: IDC connection, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, external cable diameter: 9 mm ... 14 mm

Accessories

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CP QPD 4X2,5 - Coding profile

1425950

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

QPD QSK 5X1,5 - Protective cap

1414758

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Protective cap plastic, for QPD-QUICKON connection 5x 1.5 mm², IP50

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QPD QSK BK 5X1,5 FS - Protective cap

1414728

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



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

1423983

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 3+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm², wires cut flat at the end, cable length: 0.5 m

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

1423984

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 3+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm², wires cut flat at the end, cable length: 1 m

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

1423986

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Panel feed-through, product family: QPD, connection method: Spade connection, number of positions: 3+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm²

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

1423985

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Panel feed-through, product family: QPD, connection method: Push-in connection, number of positions: 3+PE, M25, Pin, 1 mm² ... 2.5 mm², 400 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm²

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

1423991

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Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

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

1423992

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Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 9 mm ... 14 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 mm² ... 2.5 mm², 690 V, 20 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD H3PE2,5 BK - H distributor

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

1424048

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T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

QSS 22 - Socket wrench

1670206

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

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