

# QPD H3PE2,5 BK - H distributor

1423973

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



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H distributor, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, without QUICKON nut

## 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

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

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

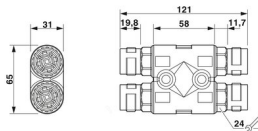
#### Connection technology

Connection technology	QUICKON connection
Connection system, internal	IDC connection
Frequency of connections between conductors of the same cross section	max. 10

#### Conductor connection

Conductor cross section flexibel	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section solid	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	16 ... 14
Wrench size, union nut	22 mm
Tightening torque, union nut	7 Nm

### Dimensions

Dimensional drawing	
Width	65 mm
Height	31 mm
Length	121 mm
Wrench size, union nut	22 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

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
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

# QPD H3PE2,5 BK - H distributor

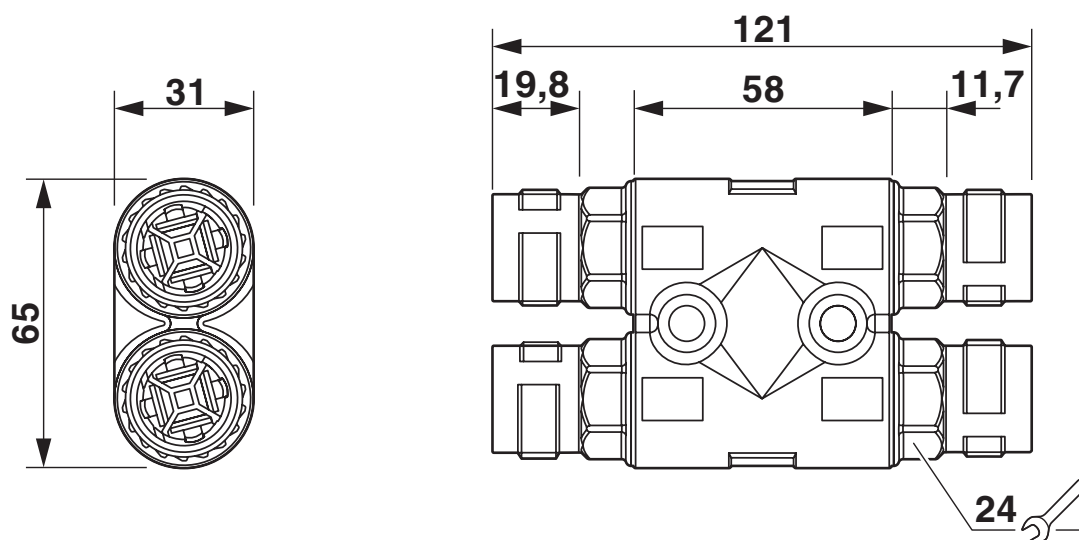
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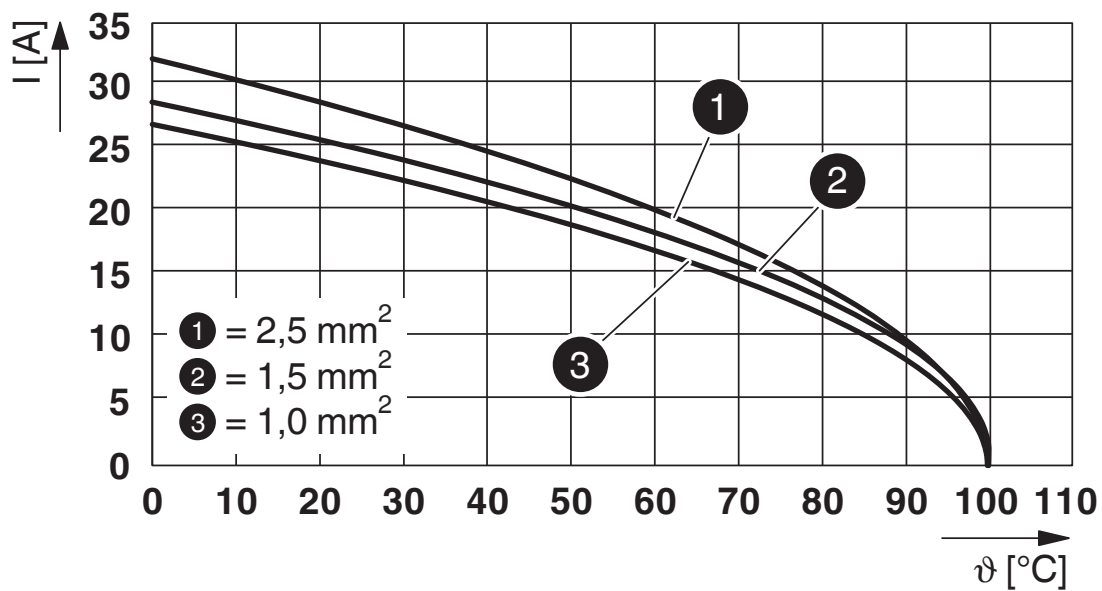
## Drawings

Dimensional drawing



Dimensional drawing

Diagram



Derating diagram

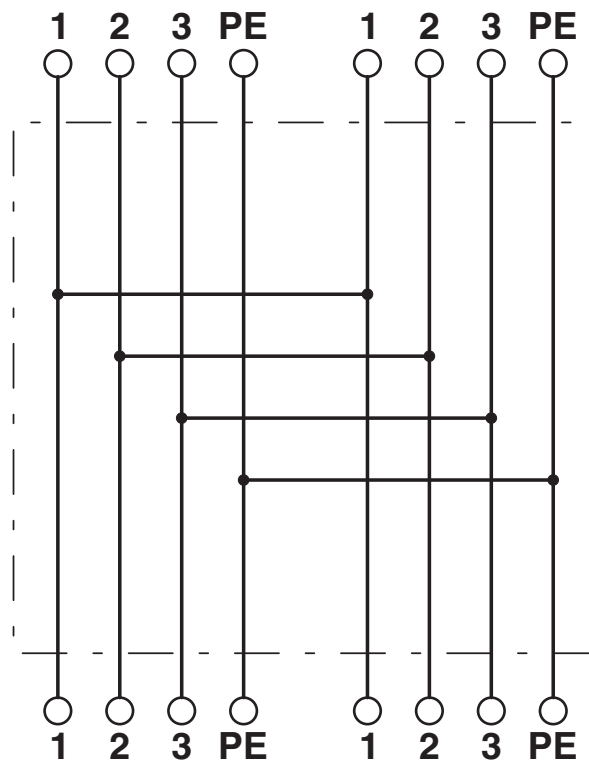
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Circuit diagram



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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 8.0	EC002567
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

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



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## Mandatory accessories

### QPD P3PE2,5 6-10 BK - Connector

1423987

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Connector, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, with QUICKON nut, external cable diameter: 6 mm ... 10 mm

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### QPD P3PE2,5 9-14 BK - Connector

1423988

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Connector, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, with QUICKON nut, external cable diameter: 9 mm ... 14 mm

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### QPD N2,5 6-10 BK - Nut

1423993

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Nut, QUICKON connection, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, external cable diameter: 6 mm ... 10 mm

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### QPD N2,5 9-14 BK - Nut

1423994

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Nut, QUICKON connection, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, external cable diameter: 9 mm ... 14 mm

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## Accessories

## QPD H3PE2,5 BK - H distributor

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## 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.

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## 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<sup>2</sup>, 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, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, without QUICKON nut, assembly thread: M25, IDC connection (welded-on), 2.5 mm<sup>2</sup>, 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, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, without QUICKON nut, assembly thread: M25, IDC connection (welded-on), 2.5 mm<sup>2</sup>, wires cut flat at the end, cable length: 1 m

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

1423986

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Panel feed-through, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, without QUICKON nut, assembly thread: M25, Spade connection, 2.5 mm<sup>2</sup>

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

1423985

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Panel feed-through, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 400 V, 20 A, black, without QUICKON nut, assembly thread: M25, Push-in connection, 2.5 mm<sup>2</sup>

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

1423991

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



Conductor connectors, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, with one QUICKON nut, external cable diameter: 6 mm ... 10 mm, QUICKON fast connection

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## QPD C3PE2,5 1X9-14 BK - Conductor connectors

1423992

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Conductor connectors, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, with one QUICKON nut, external cable diameter: 9 mm ... 14 mm, QUICKON fast connection

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

1424047

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



T distributor, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, With two QUICKON nuts, 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, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, black, With two QUICKON nuts, external cable diameter: 9 mm ... 14 mm

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## 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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