

# QPD H 4PE6,0 4X12-20 GY - H distributor



1411429

<https://www.phoenixcontact.com/us/products/1411429>

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QUICKON H-distributor, gray, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, for cable diameter of 12 mm ... 20 mm, with a sealing bolt.

## 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	1411429
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF6DCC
GTIN	4046356932295
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	PL

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## Technical data

### Mounting

Mounting type	direct screw connection
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### Product properties

Product type	Power distributor
Product family	QPD
Type	H-distributor
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, L, N, PE
Number of connections	5
No. of cable outlets	4
Coding	Coding profile

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

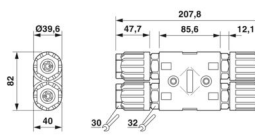
#### Connection technology

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

#### Conductor connection

Conductor cross-section flexibel	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section solid	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Connection cross section AWG	14 ... 10
Tightening torque Union nut	15 Nm
Wrench size Union nut	30 mm

### Dimensions

Dimensional drawing	
Width	82 mm
Height	40 mm
Length	207.8 mm
Wrench size	30 mm
Wrench size for mounting	30 mm

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## 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	< 3 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
Nominal current $I_N$	40 A

## Material specifications

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, L, N, PE
Material wire insulation	PVC/PE/TPE/rubber

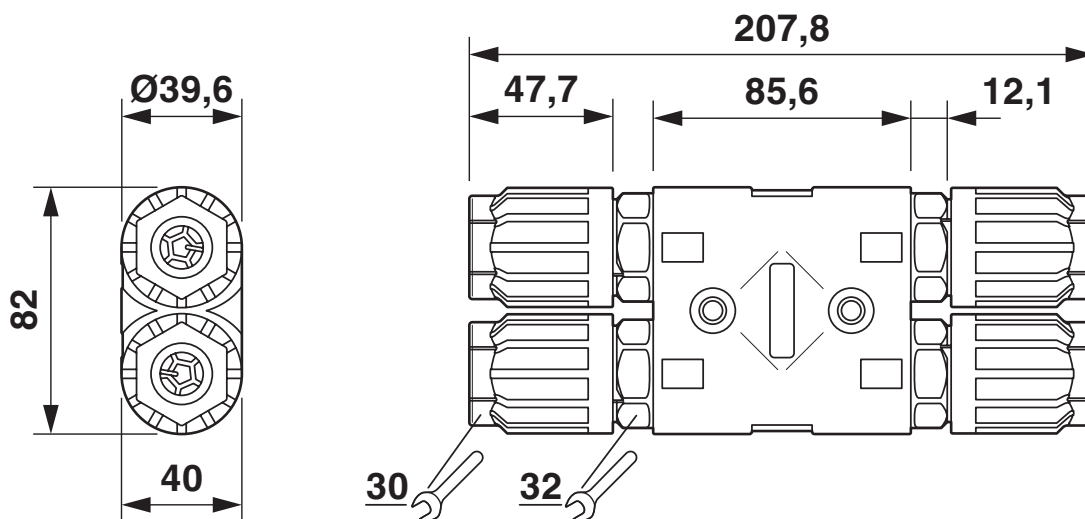
## Environmental and real-life conditions

### 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 ... 100 °C

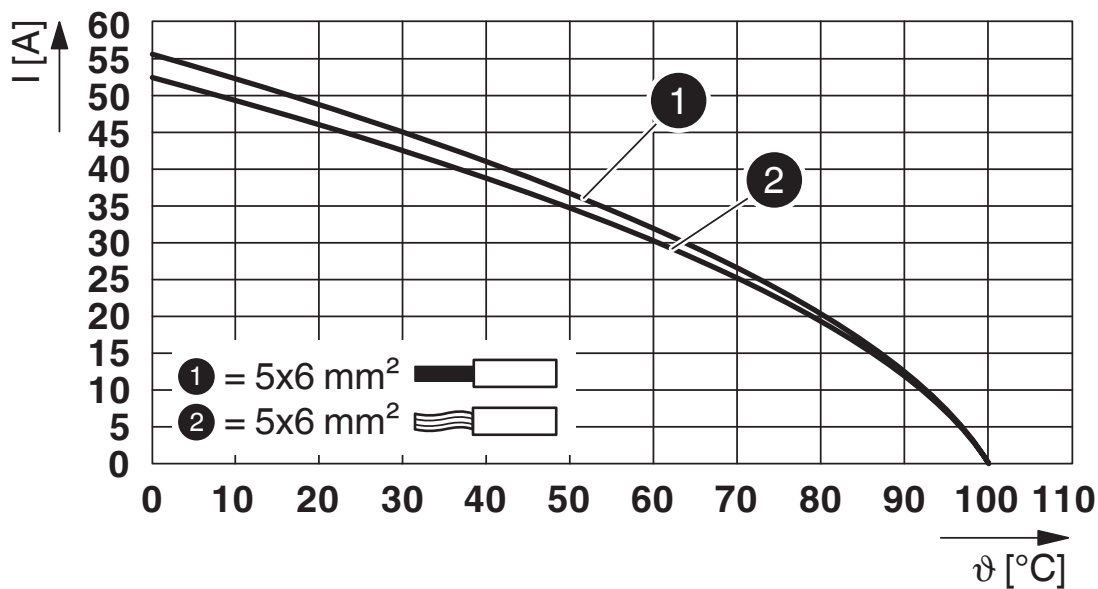
Drawings

Dimensional drawing



Dimensional drawing

Diagram



Derating diagram

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Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27440603
ECLASS-15.0	27440603

### ETIM

ETIM 9.0	EC002567
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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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