HC-EVO-B10PT-BWD-HL-M25ELC-AL - Connector set

1411488

https://www.phoenixcontact.com/us/products/1411488

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EVO connector set, B10 series, metal housing, consisting of: sleeve housing 1411455, panel mounting base 1411322, EVO screw connection 1411446, pin contact insert 1407730, socket contact insert 1407729

Commercial data

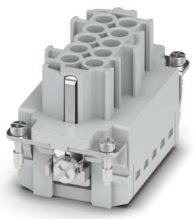
Item number	1411488
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF63
Product key	AF7AFX
GTIN	4046356932882
Weight per piece (including packing)	502 g
Weight per piece (excluding packing)	499.22 g
Customs tariff number	85366990
Country of origin	CN

Set consists of

HC-B10-I-PT-F - Contact insert

1407729

https://www.phoenixcontact.com/us/products/1407729

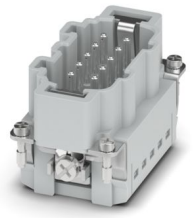


Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm^2 ... 2.5 mm^2, application: Power

HC-B10-I-PT-M - Contact insert

1407730

https://www.phoenixcontact.com/us/products/1407730



Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Pin, Push-in connection, 500 V, 16 A, 0.14 mm^2 ... 2.5 mm^2, application: Power

HC-EVO-B10-HLFD-EL-AL - Housing

1411455

https://www.phoenixcontact.com/us/products/1411455



HEAVYCON EVO sleeve housing, EMC version, without powder coating, with bayonet flange for EVO screw connection, B10, for double locking latch, height: 64 mm, without EVO screw connection.

HC-STA-B10-BWD-ELC-AL - Housing

1411322

https://www.phoenixcontact.com/us/products/1411322



HEAVYCON B10 panel mounting base, with double locking latch, with flat gasket, salt-water-resistant aluminum, conductive profile gasket

HC-B-G-M25-EC-AL - Cable gland

1411446

https://www.phoenixcontact.com/us/products/1411446



EVO EMC cable gland with bayonet locking, B series, size M25, cable diameter: 11 ... 16 mm

Technical data

Product properties

Product type	Connector set
Housing type	Complete housing
Series	HC-B
Type	B10
Number of positions	10
Connection profile	10+PE
No. of cable outlets	1
Seal present	yes
Protective cover	no
Cable outlet	straight

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

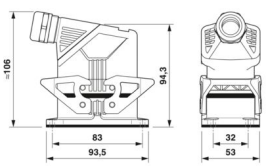
Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A

Connection data

Connection method	Push-in connection
Connection technology	Push-in connection
Conductor cross-section	0.14 mm² ... 2.5 mm² (with ferrule)
	0.14 mm² ... 2.5 mm² (with ferrule)
Connection cross section AWG	26 ... 14
Tightening torque	0.5 Nm ... 1.7 Nm (Fixing screws for panel mounting base)
Stripping length	8 mm ... 10 mm

Dimensions

Dimensional drawing	
Width	53 mm
Height	94.5 mm
Length	93.5 mm
Drill hole distance, horizontal	83 mm

Drill hole distance, vertical	32 mm

Installation dimensions

Width of the assembly cutout	35 mm
Length of the assembly cutout	65 mm

Material specifications

Material Housing	Die-cast aluminum, corrosion-resistant
Material Protective cover	PA
Flammability rating according to UL 94	V0
Seal material	NBR (profile gasket)
	NBR (Flat gasket)
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Locking latch material	PA

Cable/line

External cable diameter	11 mm ... 16 mm

Mechanical properties

Mechanical data

Locking type	Latch
Insertion/withdrawal cycles	≥ 500

Environmental and real-life conditions

Ambient conditions

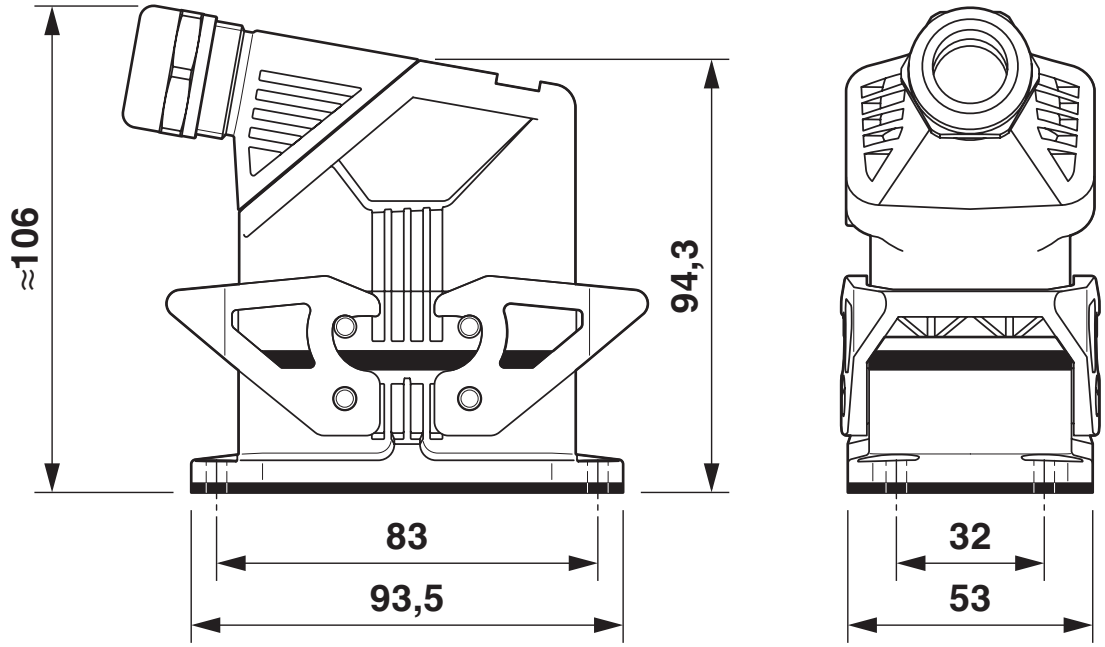
Degree of protection	IP66
	IP67
	IP66
Enclosure rating (NEMA)	4 (UL 50e)
	4X (UL 50e)
	12 (UL 50e)
Impact strength	IK09
Ambient temperature (operation)	-40 °C ... 100 °C

Mounting

Mounting type	Screw mounting
Assembly note	Coding also using the CP-HC (1686478) coding profiles. HC-B6.. / HC-B10..for two coding profiles. HC-B16../ HC-B24..for four coding profiles.
	Connectors may only be operated when there is no load/the power is switched off. Can be used for solid wires and stranded wires with ferrule.

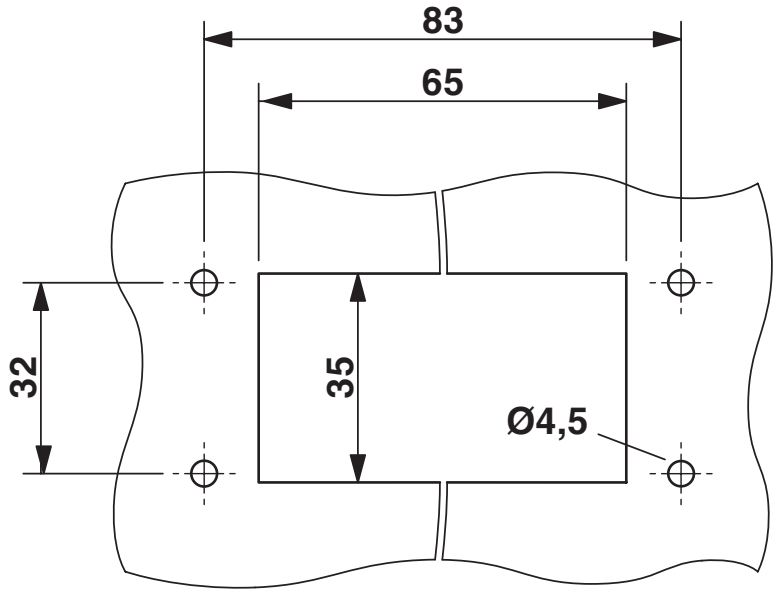
Drawings

Dimensional drawing



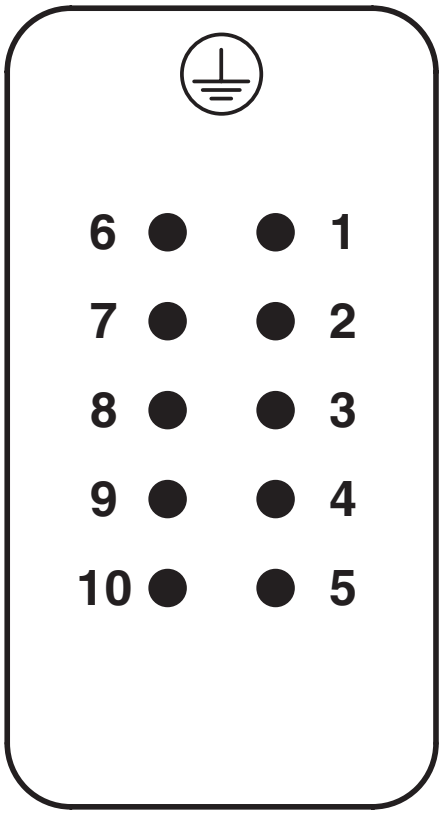
Dimensional drawing

Dimensional drawing



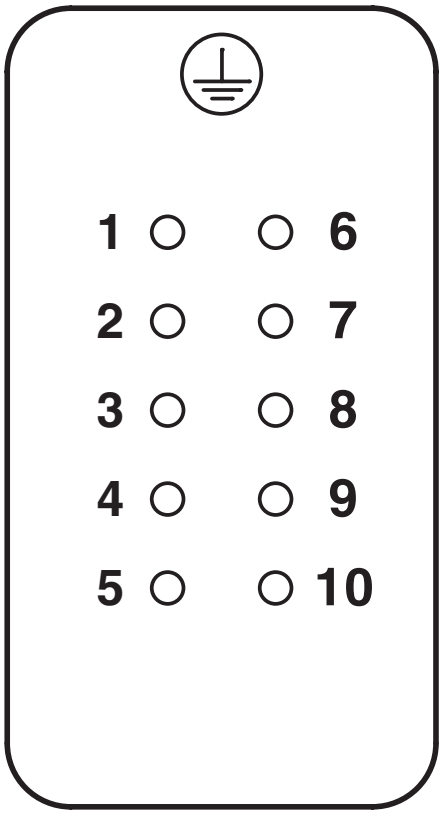
Mounting cutout

Schematic diagram



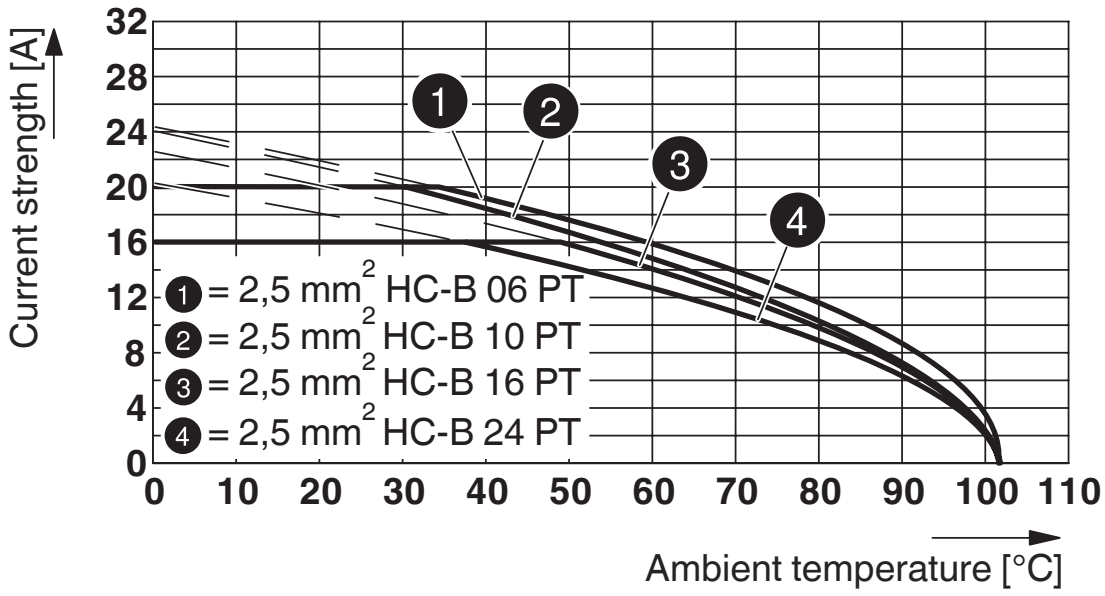
Pin assignment, connection side, pin

Schematic diagram



Pin assignment, connection side, socket

Diagram



Derating diagram

Approvals

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DNV
Approval ID: TAE000037S

EAC
Approval ID: RU C-DE.AI30.B.01102

Classifications

ECLASS

ECLASS-13.0	27440113
ECLASS-15.0	27440113

ETIM

ETIM 10.0	EC002636

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%

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