HC-EVO-B06PT-BWSC-HL-M20ELC-AL - Connector set

1411487

https://www.phoenixcontact.com/us/products/1411487

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EVO connector set, B6 series, metal housing, consisting of: sleeve housing 1411448, panel mounting base 1411319, EVO screw connection 1411439, pin contact insert 1407728, socket contact insert 1407727

Commercial data

Item number	1411487
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF63
Product key	AF7AFX
GTIN	4046356932875
Weight per piece (including packing)	450 g
Weight per piece (excluding packing)	448.62 g
Customs tariff number	85366990
Country of origin	CN

HC-EVO-B06PT-BWSC-HL-M20ELC-AL - Connector set

1411487

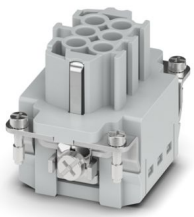
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Set consists of

HC-B06-I-PT-F - Contact insert

1407727

https://www.phoenixcontact.com/us/products/1407727

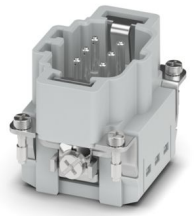


Contact insert, number of positions: 6+PE, size: B6, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm^2 ... 2.5 mm^2, application: Power

HC-B06-I-PT-M - Contact insert

1407728

https://www.phoenixcontact.com/us/products/1407728



Contact insert, number of positions: 6+PE, size: B6, 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-B06-HLFS-EL-AL - Housing

1411448

https://www.phoenixcontact.com/us/products/1411448



HEAVYCON EVO sleeve housing, EMC version, without powder coating, with bayonet flange for EVO screw connection, B6, for single locking latch, height: 64 mm, without EVO screw connection.

HC-STA-B06-BWSC-ELC-AL - Housing

1411319

https://www.phoenixcontact.com/us/products/1411319



Panel mounting base B6, with single locking latch, material: Die-cast aluminum, salt water resistant, protective cover material: PC, height: 30.5 mm, cable gland: none, protective cover: yes, Standard, with flat gasket

HC-B-G-M20-EC-AL - Cable gland

1411439

https://www.phoenixcontact.com/us/products/1411439



EVO EMC cable gland with bayonet locking, B series, size M20, cable diameter: 9 ... 13 mm

Technical data

Product properties

Product type	Connector set
Housing type	Complete housing
Series	HC-B
Type	B6
Number of positions	6
Connection profile	6+PE
No. of cable outlets	1
Seal present	yes
Protective cover	yes
Cable outlet	straight

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

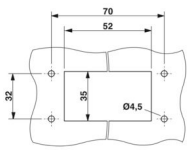
Electrical properties

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	80.5 mm
Drill hole distance, horizontal	70 mm
Drill hole distance, vertical	32 mm

Installation dimensions

Width of the assembly cutout	35 mm
Length of the assembly cutout	52 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	9 mm ... 12 mm

Mechanical properties

Mechanical data

Locking type	Latch
Insertion/withdrawal cycles	≥ 500

Environmental and real-life conditions

Ambient conditions

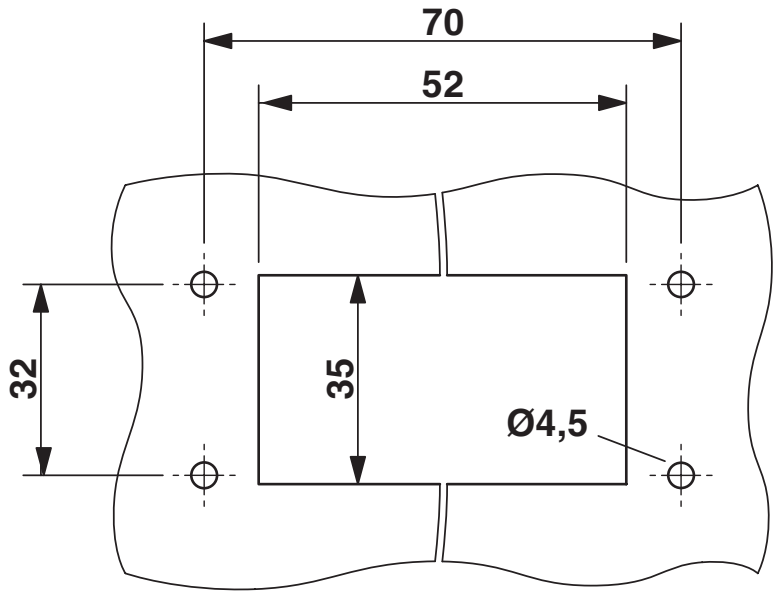
Degree of protection	IP66 (with locked protective cover)
	IP67 (when plugged in)
	IP66
Enclosure rating (NEMA)	4 (UL 50e)
	4X (UL 50e)
	12 (UL 50e)
Impact strength	IK08
Ambient temperature (operation)	-40 °C ... 100 °C

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.

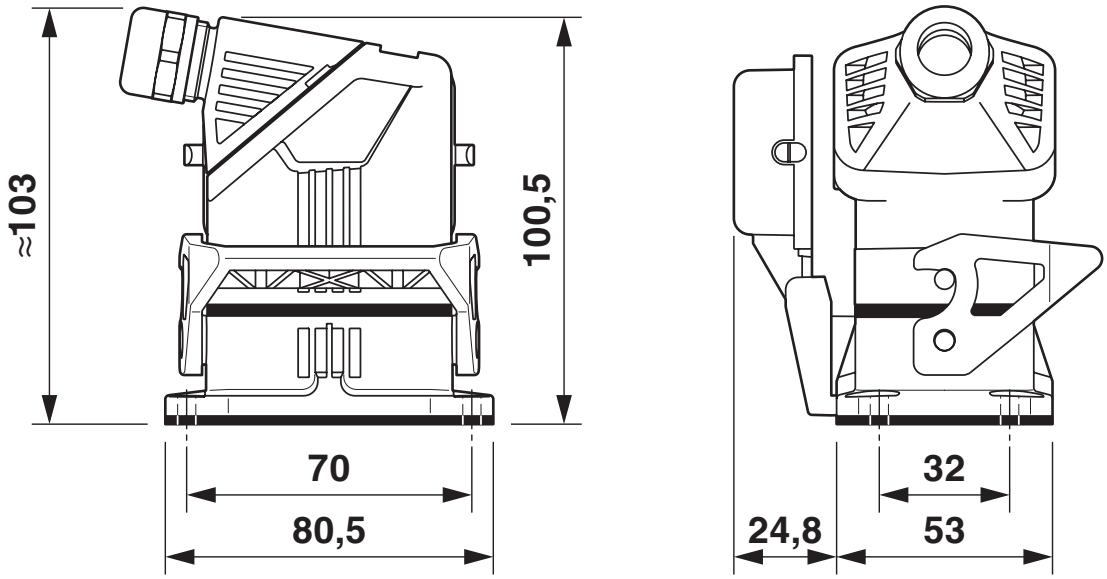
Drawings

Dimensional drawing



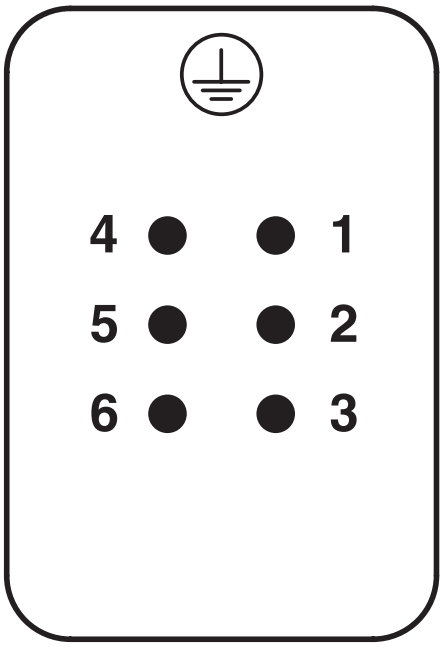
Mounting cutout

Dimensional drawing



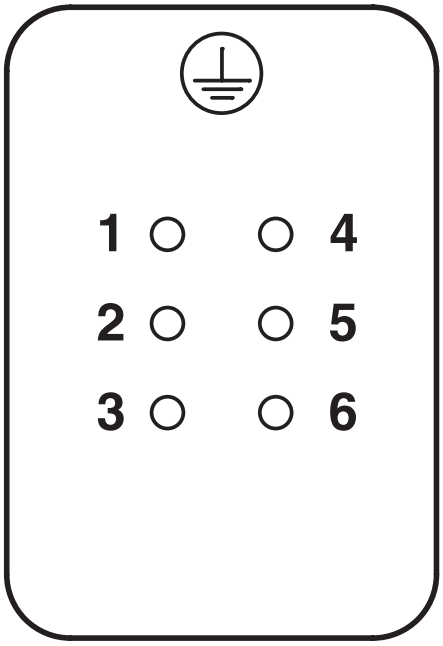
Dimensional drawing

Schematic diagram



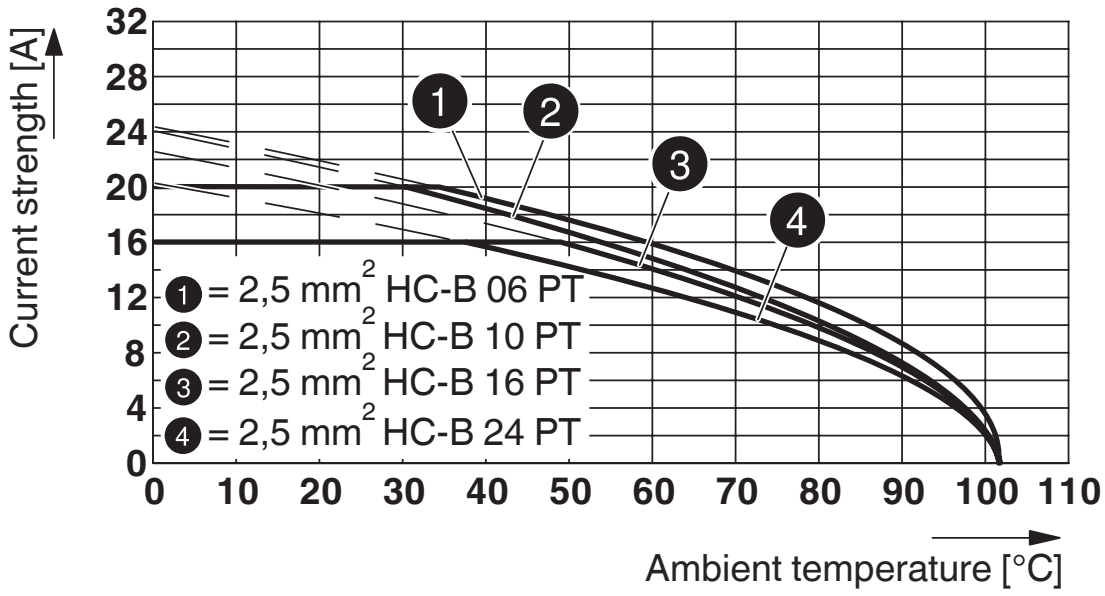
Pin assignment, connection side, pin

Schematic diagram



Pin assignment, connection side, socket

Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1411487

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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