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

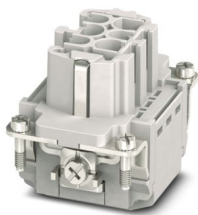|	
Item number	1411487
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF63
Product key	BF7AFX
Catalog page	Page 637 (C-2-2017)
GTIN	4046356932875
Weight per piece (including packing)	450 g
Weight per piece (excluding packing)	448.62 g
Customs tariff number	85366990
Country of origin	CN

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Set consists of

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

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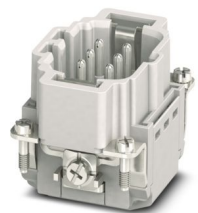
https://www.phoenixcontact.com/us/products/1407727

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

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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

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HC-EVO-B06-HLFS-EL-AL - Housing

1411448

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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

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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
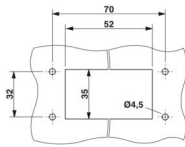
Electrical properties

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

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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 Profile gasket	NBR
Seal material Flat gasket	NBR
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.

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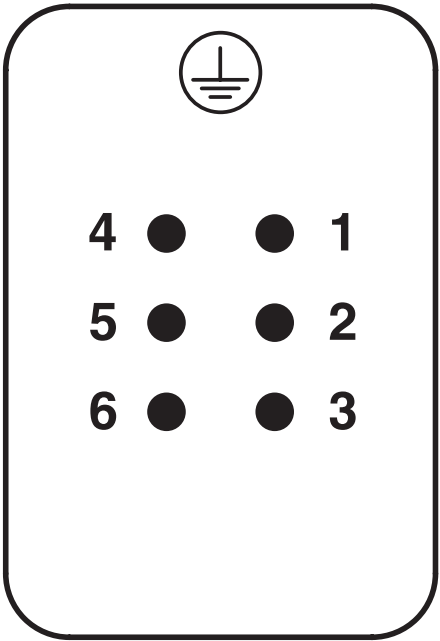https://www.phoenixcontact.com/us/products/1411487

Drawings

Schematic diagram
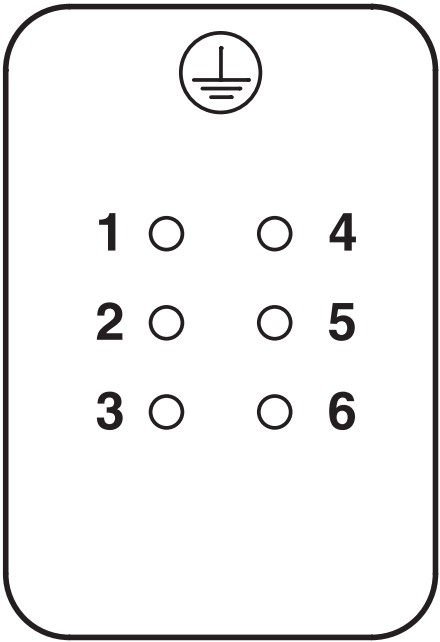
Pin assignment, connection side, socket

Schematic diagram

Pin assignment, connection side, pin

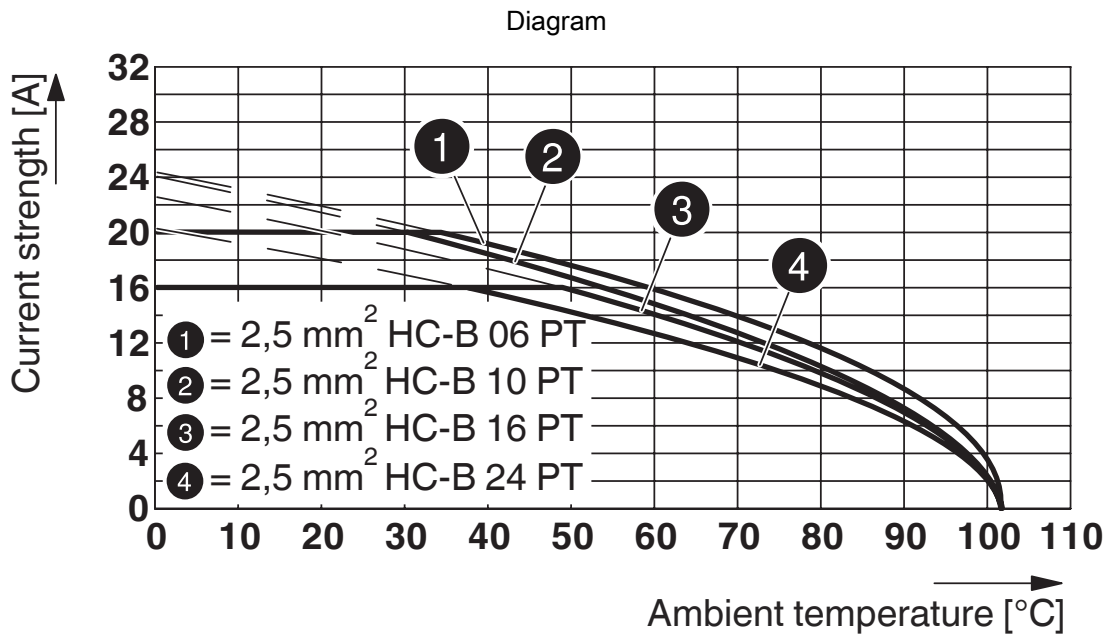# HC-EVO-B06PT-BWSC-HL-M20ELC-AL - Connector set

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Dimensional drawing

70

52

32

35

Ø4,5

Mounting cutout

Diagram

32
28
24
20
16
12
8
4
0

Current strength [A]

1   2   3   4

1 = 2,5 mm^2 HC-B 06 PT
2 = 2,5 mm^2 HC-B 10 PT
3 = 2,5 mm^2 HC-B 16 PT
4 = 2,5 mm^2 HC-B 24 PT

0   10   20   30   40   50   60   70   80   90   100 110

Ambient temperature [°C]
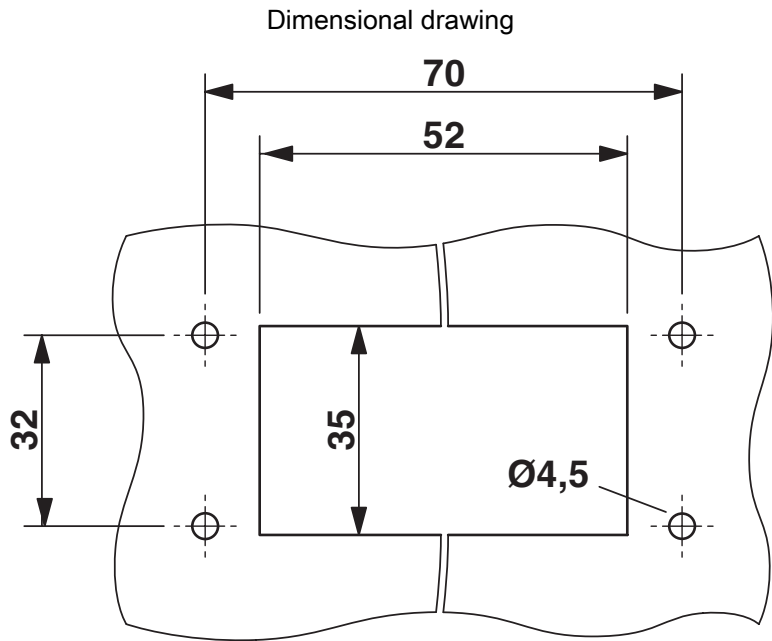
Derating diagram

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Dimensional drawing
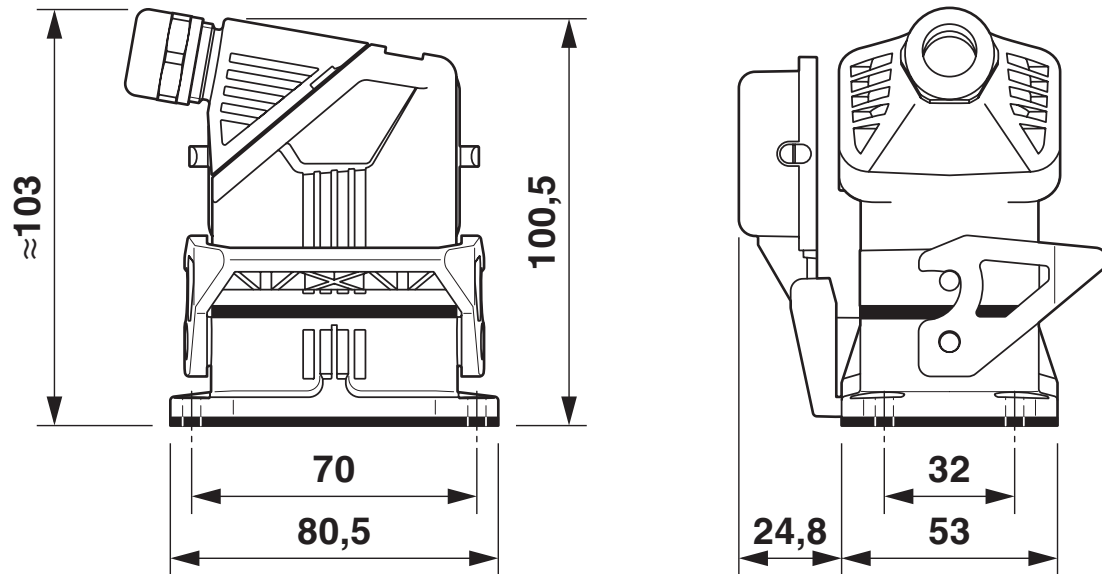
Dimensional drawing

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

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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

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

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Classifications

ECLASS

ECLASS-11.0	27440101
ECLASS-12.0	27440113
ECLASS-13.0	27440113

ETIM

ETIM 9.0	EC002636

UNSPSC

UNSPSC 21.0	39121400

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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.)	Lead(CAS: 7439-92-1)
SCIP	7b702e75-1db5-4ccd-af0a-83cf19277603

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Accessories

HC-B06-SL-PLBK - Housing brackets

1407697

https://www.phoenixcontact.com/us/products/1407697

Replacement single locking latch for HEAVYCON EVO housing type B6, PA

US-EMLP-HA (20X9) - Plastic label

0830989

https://www.phoenixcontact.com/us/products/0830989

Plastic label, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 20 x 9 mm, Number of individual labels: 70

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HC-B06-BC-HI-PLBK - Protective cover

1407692

https://www.phoenixcontact.com/us/products/1407692

Protective cover B6, for single locking latch, protective cover material: PC, height: 19 mm, seal: no

HC-B06-SG-RBK - Flat gasket

1407702

https://www.phoenixcontact.com/us/products/1407702

Replacement flat gasket, for HEAVYCON EVO panel mounting base type B6

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HC-B06-SP-RBK - Profile gasket

1407706

https://www.phoenixcontact.com/us/products/1407706

Profile gasket for HEAVYCON EVO supporting base element type B6

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