HC-EVO-B16PT-BWSC-HH-M25-PLRBK - Connector set

1408793

https://www.phoenixcontact.com/us/products/1408793

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EVO connector set, B16 series, plastic housing, consisting of sleeve housing, panel mounting base, push-in contact inserts: 1407731, 1407732, 1407647, 1407642, 1407670

Your advantages

- Lower costs than metal version
- Labeling option using 9 x 20 mm marking label
- Low weight
- Lower risk of condensation

Commercial data

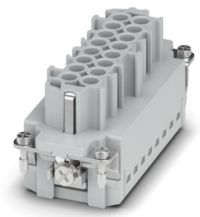
Item number	1408793
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF63
Product key	AF7AFX
GTIN	4046356834100
Weight per piece (including packing)	472.1 g
Weight per piece (excluding packing)	472.1 g
Customs tariff number	85366990
Country of origin	CN

Set consists of

HC-B16-I-PT-F - Contact insert

1407731

https://www.phoenixcontact.com/us/products/1407731

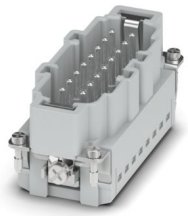


Contact insert, number of positions: 16+PE, size: B16, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm^2 ... 2.5 mm^2, application: Power

HC-B16-I-PT-M - Contact insert

1407732

https://www.phoenixcontact.com/us/products/1407732



Contact insert, number of positions: 16+PE, size: B16, 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-B16-BWSC-PLRBK - Housing

1407647

https://www.phoenixcontact.com/us/products/1407647



Panel mounting base B16, with single locking latch, material: PA 6.6-FR, protective cover material: PC, height: 30.5 mm, cable gland: none, protective cover: yes, Standard, with flat gasket

HC-EVO-B16-HHFS-PLBK - Housing

1407642

https://www.phoenixcontact.com/us/products/1407642



Sleeve housing B16, for single locking latch, material: PA 6.6-FR, cable outlets: 1, straight/lateral, height: 78 mm, cable gland: none, Standard

HC-B-G-M25-PLRBK - Cable gland

1407670

https://www.phoenixcontact.com/us/products/1407670



EVO plastic cable gland with bayonet locking, for housing series B, size M25, cable diameter: 9 mm ... 17 mm

Technical data

Notes

General	Connectors may be operated only when there is no load/voltage.

Product properties

Product type	Connector set
Housing type	Complete housing
Series	HC-B
Type	B16
Number of positions	16
Connection profile	16+PE
Contact numbering	1 - 16
No. of cable outlets	1
Type of the screw connection	1x M25
Protective cover	yes
Cable outlet	straight
Pg screw connection	none

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

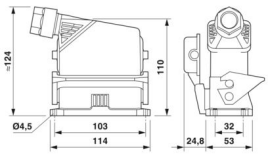
Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A
Nominal voltage U_N	500 V
Nominal current I_N	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 (with ferrule)
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	124 mm
Length	114 mm
Drill hole distance, horizontal	103 mm
Drill hole distance, vertical	32 mm

Installation dimensions

Width of the assembly cutout	35 mm
Length of the assembly cutout	86 mm

Material specifications

Material Protective cover	PA
Flammability rating according to UL 94	V0
Material grommet GRP	NBR (profile gasket)
	NBR (Flat gasket)
Housing material	PA
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Locking latch material	PA

Cable/line

External cable diameter	9 mm ... 17 mm

Mechanical properties

Mechanical data

Type of the screw connection	1x M25
Locking type	Latch
Insertion/withdrawal cycles	≥ 500

Environmental and real-life conditions

Ambient conditions

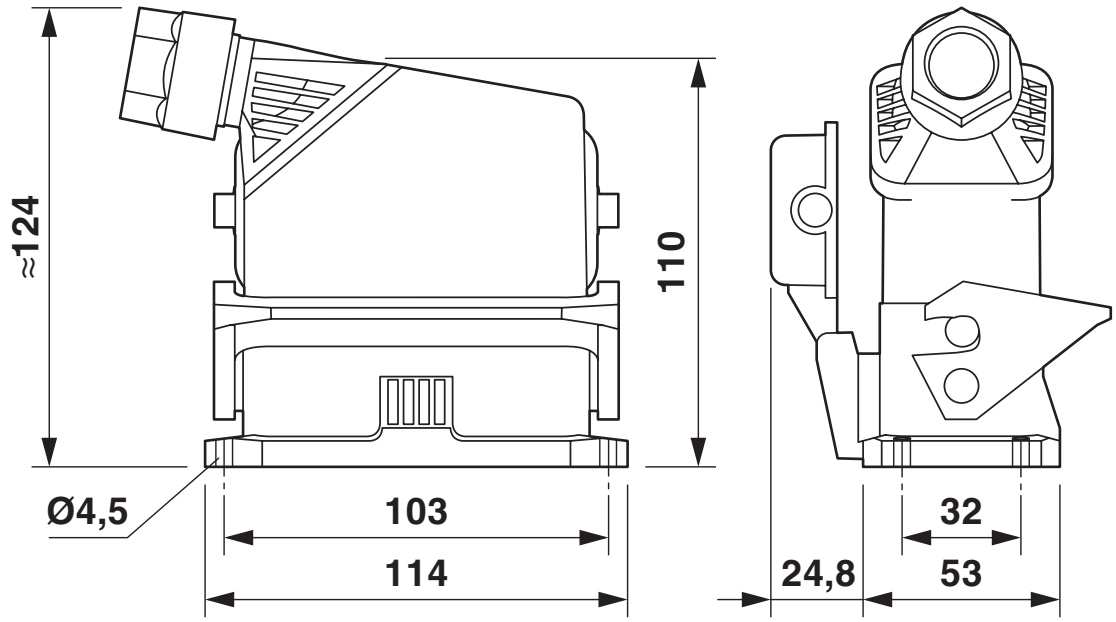
Degree of protection	IP66
Enclosure rating (NEMA)	12 (UL 50e)
Impact strength	IK09
Ambient temperature (operation)	-40 °C ... 100 °C

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.

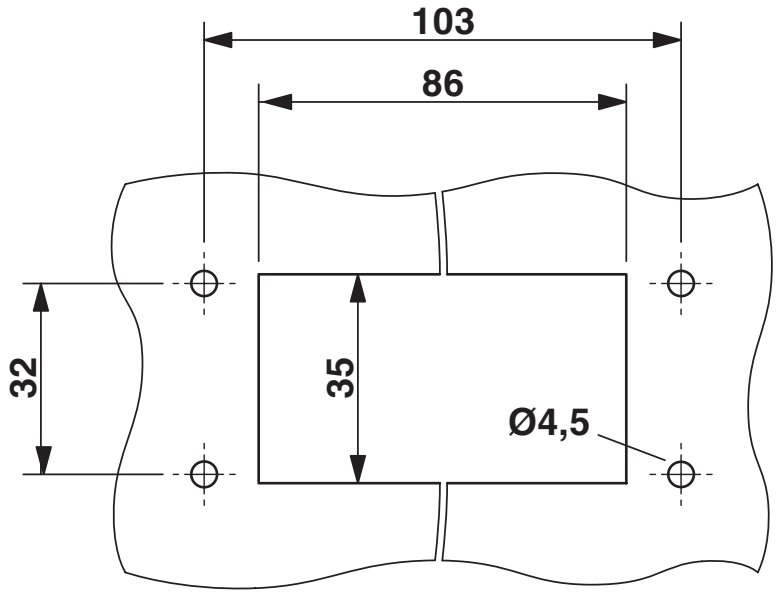
Drawings

Dimensional drawing



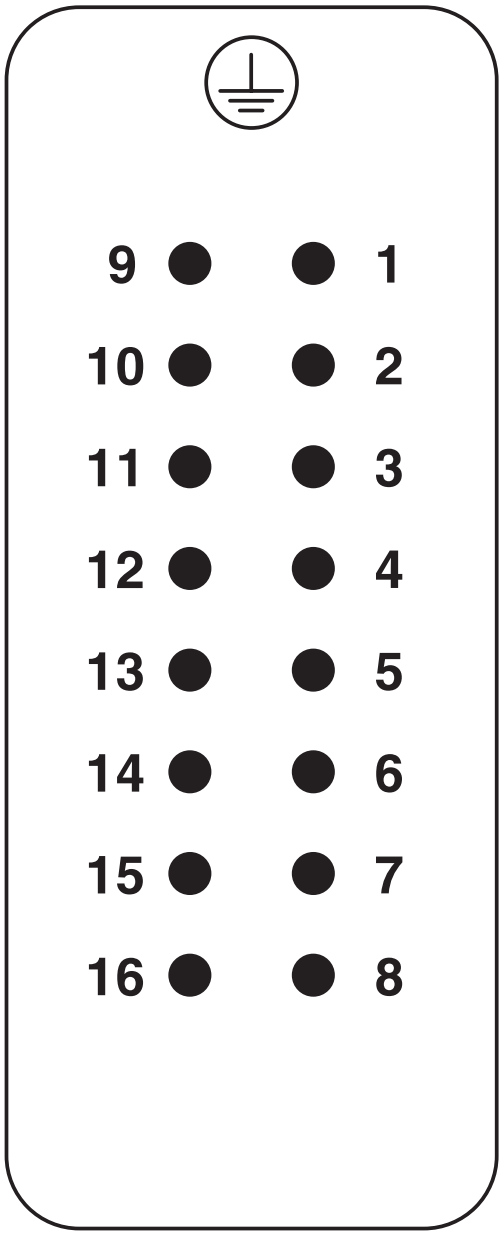
Dimensional drawing

Dimensional drawing



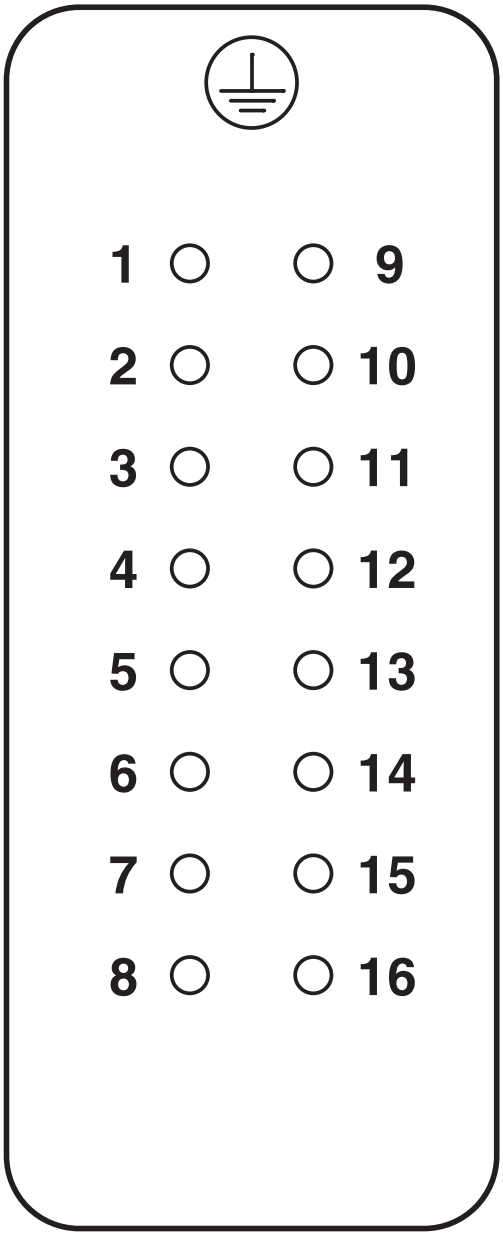
Mounting cutout

Schematic diagram



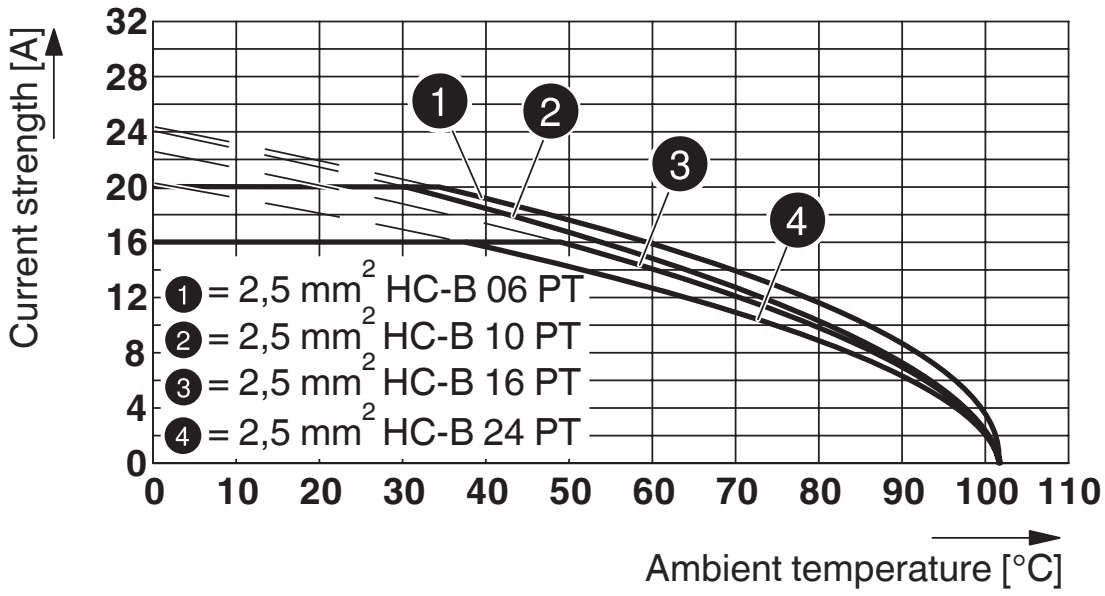
Pin assignment, connection side, pin

Schematic diagram



Pin assignment, connection side, socket

Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1408793

DNV
Approval ID: TAE000037S

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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