

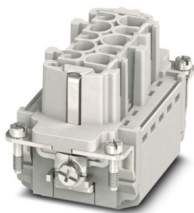
HC-HV03-I-PT-F - Contact insert

1407743

<https://www.phoenixcontact.com/no/products/1407743>



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Contact insert, number of positions: 3+2+PE, size: B10, power contacts: 3, control contacts: 2, number of connections per position: 1, Socket, Push-in connection, 690 V, 16 A, 0.14 mm² ... 2.5 mm², application: Power

Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- Cost-effective and fast coding with plastic profiles

Commercial data

Item number	1407743
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	31BBF
Product key	BF7ABG
Catalog page	Page 559 (C-2-2019)
GTIN	4046356777483
Weight per piece (including packing)	56.7 g
Weight per piece (excluding packing)	56.7 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Notes

General	only use flexible conductors with ferrules
General	Connectors may be operated only when there is no load/voltage.

Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
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Product properties

Type	B10
Product type	Contact insert with a fixed no. of positions
Number of positions	5
Connection profile	3+2+PE
Application	Power
Number of connections per position	1
No. of power contacts	3
No. of control contacts	2
Series	HC-HV

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	34.6 mm
Length	64 mm
Drill hole distance, horizontal	57 mm

Mechanical characteristics

Contact diameter	2.5 mm
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Connection data

Connection technology

Connection technology	Push-in connection (power contacts)
	Push-in connection (control contacts)
Number of connections per position	1

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Conductor connection

Conductor cross section	0.14 mm² ... 2.5 mm² (power contacts)
	0.14 mm² ... 2.5 mm² (control contacts)
Connection cross section AWG	26 ... 14 (power contacts)
	26 ... 14 (control contacts)
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length	8 mm ... 10 mm (power contacts)
	8 mm ... 10 mm (control contacts)

Electrical properties

Rated voltage (III/2) contacts	830 V
Rated voltage (III/3)	690 V
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	6 kV
Rated surge voltage	8 kV (power contacts)
	6 kV (control contacts)
Rated current	16 A
	16 A
SCCR	5 kA (UL 2237)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
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Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact carrier material	PC
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)
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Standards and regulations

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
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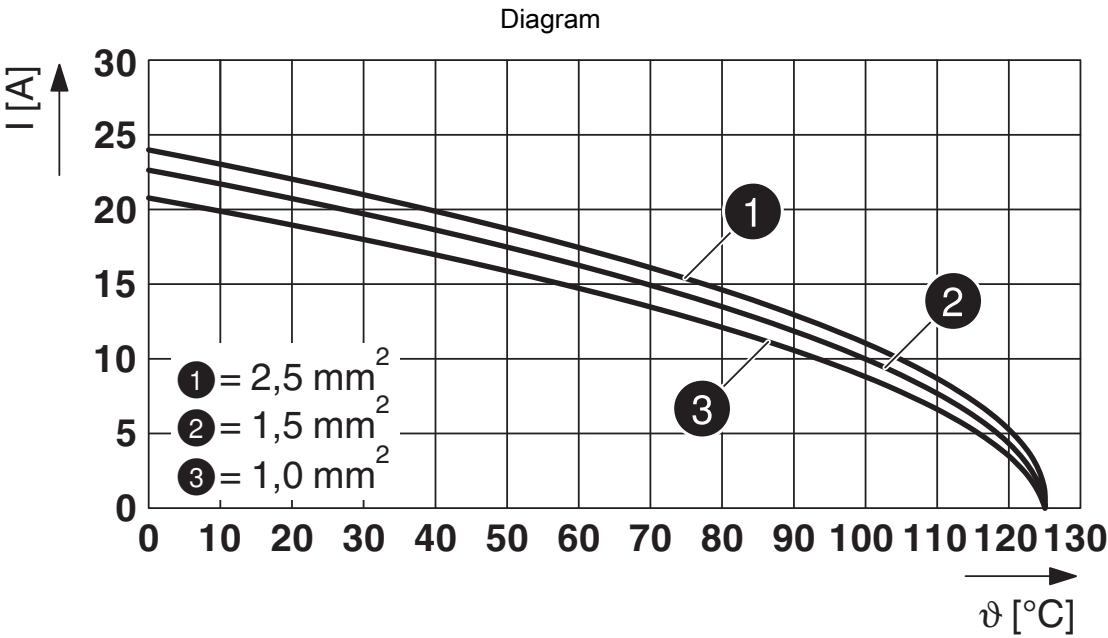
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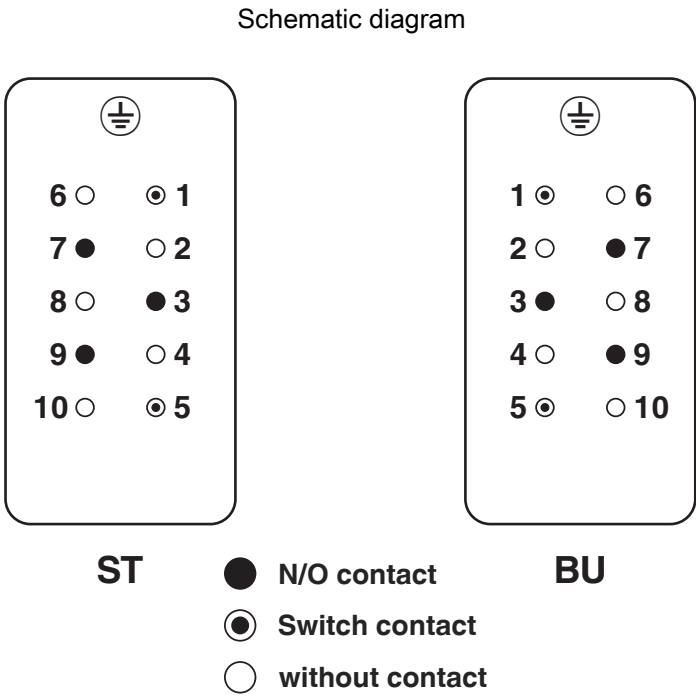
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Drawings



Derating diagram



View termination side

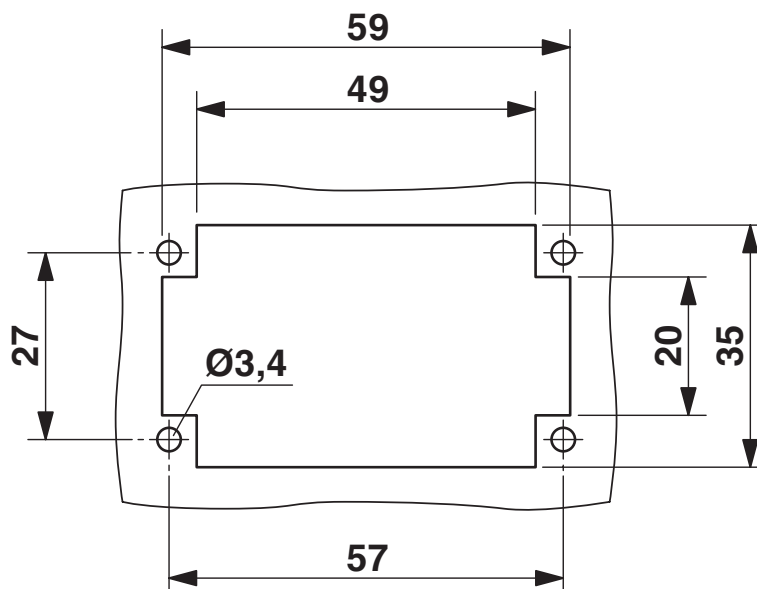
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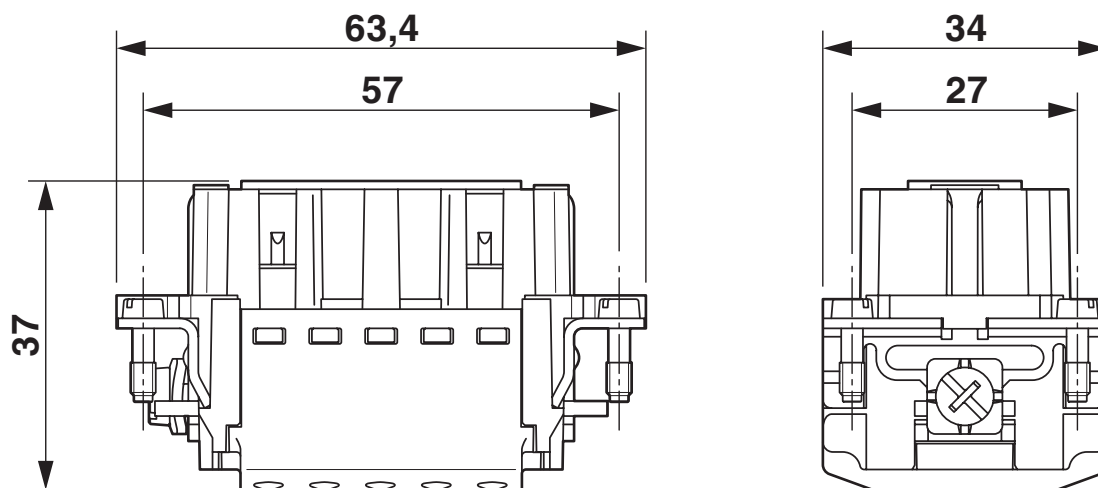


Dimensional drawing



Mounting cutout when used without housing

Dimensional drawing



Dimensional drawing

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1407743>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 013631_0_000

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	16 A	- 14	-



UL Recognized

Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	21 A	- 14	-



EAC

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



cULus Recognized

Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	20 A	- 14	-

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Classifications

ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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