HC-Q05-I-PT-F - Contact insert

1013948

https://www.phoenixcontact.com/nl/producten/1013948

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Contact insert, number of positions: 5+PE, size: D7, power contacts: 5, number of connections per position: 1, Socket, Push-in connection, 230 V, 16 A, 0.5 mm^2 ... 2.5 mm^2, 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

Commercial data

Item number	1013948
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF7ABJ
Product key	BF7ABJ
GTIN	4055626492940
Weight per piece (including packing)	21,1 g
Weight per piece (excluding packing)	22,22 g
Customs tariff number	85366990
Country of origin	CN

Technical data

Notes

General	For housing design D7
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

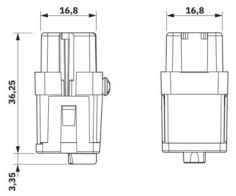
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-Q
Application	Power
Type	D7
Number of positions	5
Connection profile	5+PE
Contact numbering	1 - 5
Number of connections per position	1
No. of power contacts	5
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	21 mm
Height	39.6 mm
Length	21 mm

Mechanical characteristics

Contact diameter	2.5 mm

Connection data

Connection technology

Connection technology	Push-in connection
Number of connections per position	1

Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross section	0.5 mm² ... 2.5 mm² (The cross section specification refers to the geometric cross section of the cable used)
Connection cross section AWG	20 ... 14
Connection cross section PE contact	0.5 mm² ... 2.5 mm²
Connection cross section PE contact AWG	20 ... 14
Tightening torque	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	10 mm

Electrical properties

Rated voltage (III/3)	230 V (Conductor-PE)
	400 V (Conductor-Conductor)
Rated current	16 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500

Material specifications

Flammability rating according to UL 94	V0
Contact surface material	Ag
Contact carrier material	PC
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)

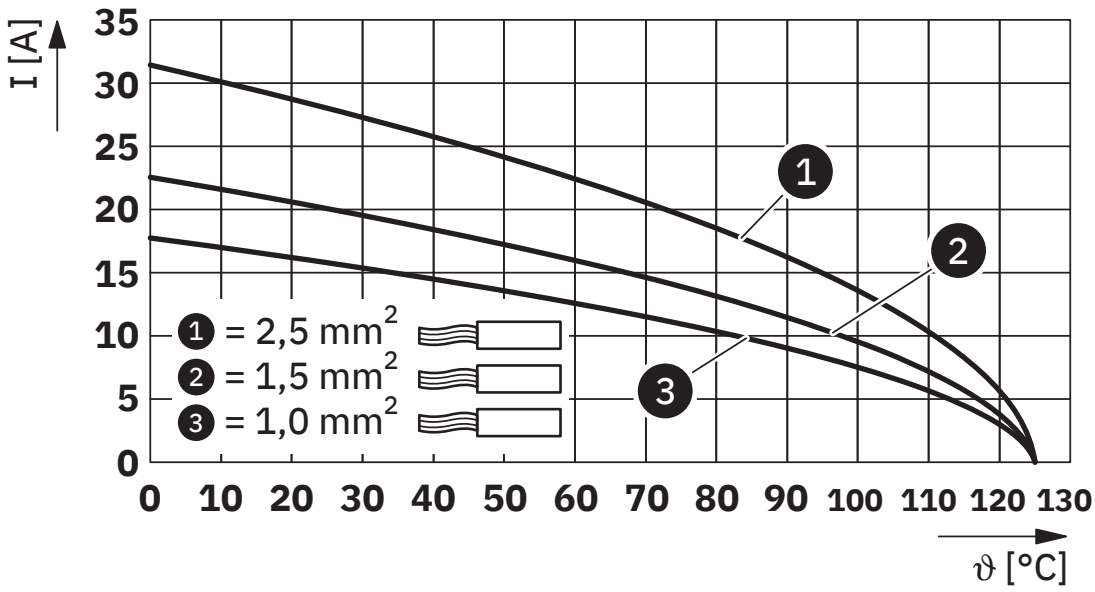
Standards and regulations

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)

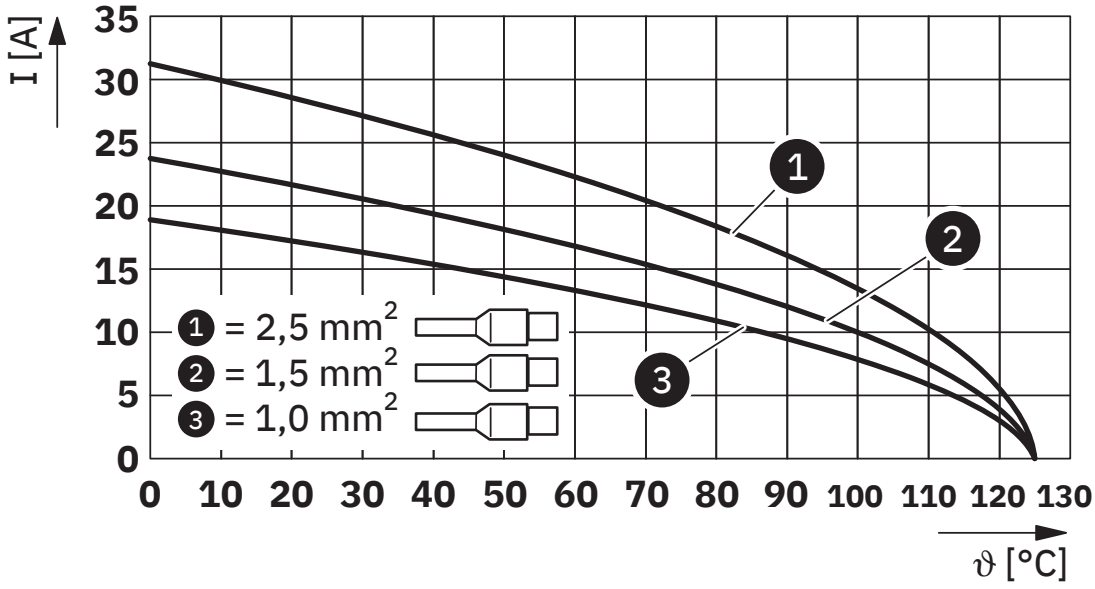
Drawings

Diagram



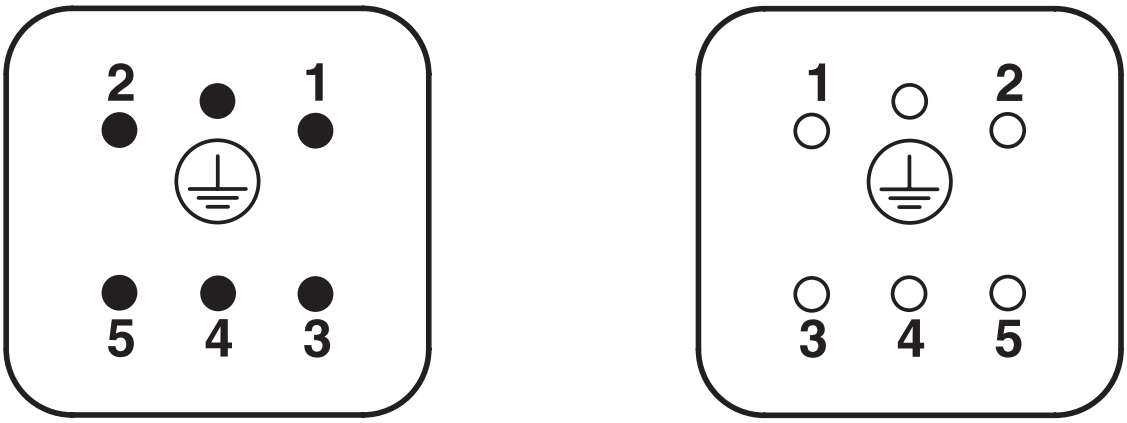
Derating diagram for flexible conductors

Diagram



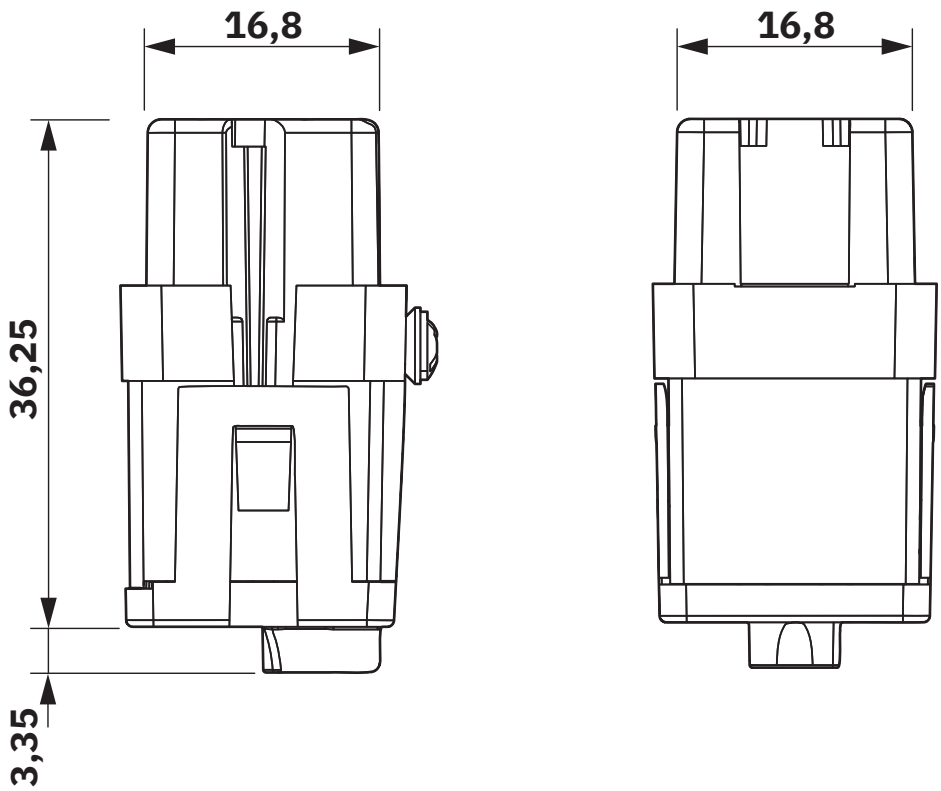
Derating diagram for flexible conductors with ferrule

Schematic diagram



Contact-side pin assignment

Dimensional drawing



Female insert

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC000438

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%

Accessories

HC-D 7-DS-IP65 - Sealing screw

1686229

https://www.phoenixcontact.com/nl/producten/1686229



Sealing screw, size: Countersunk head, IP67, replacement part for D7 size HEAVYCON housing

HC-CP-D07-PL - Coding element

1095413

https://www.phoenixcontact.com/nl/producten/1095413



Coding element for HC-D07 contact inserts of the HC-A03... / HC-A04... / HC-Q03... / HC-Q04... / HC-Q07... series

HC-Q05-I-PT-F - Contact insert

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https://www.phoenixcontact.com/nl/producten/1013948

HC-Q05-I-PT-M - Contact insert

1013947

https://www.phoenixcontact.com/nl/producten/1013947



Contact insert, number of positions: 5+PE, size: D7, power contacts: 5, number of connections per position: 1, Pin, Push-in connection, 230 V, 16 A, 0.5 mm^2 ... 2.5 mm^2, application: Power

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