HC-K12/ 2-EBUC - Contact insert

1636347

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Contact insert, number of positions: 12+2+PE, size: B16, power contacts: 12, control contacts: 2, Socket, Crimp connection, 690 V, 40 A, 1.5 mm^2 ... 6 mm^2, application: Power/signal

Your advantages

- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

Item number	1636347
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF7ABA
Catalog page	Page 569 (C-2-2019)
GTIN	4046356011488
Weight per piece (including packing)	87 g
Weight per piece (excluding packing)	83.8 g
Customs tariff number	85366990
Country of origin	CN

Technical data

Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing of type B16/B32, power contacts: CK 4,0-ED, control contacts: CK 1,6-ED (crimp contacts not supplied as standard)
General	Connectors may be operated only when there is no load/voltage.

Mounting

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

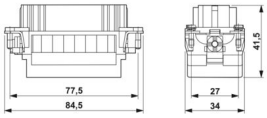
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-K
Application	Power/signal
Type	B16
	B32
Number of positions	14
Connection profile	12+2+PE
Contact numbering	1 - 12 (power contacts)
	1 - 2 (control contacts)
No. of power contacts	12
No. of control contacts	2
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	41.5 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm

Mechanical characteristics

Contact diameter	4 mm

Connection data

Connection technology

Connection technology	Crimp connection (power contacts)
	Crimp connection (control contacts)

Conductor connection

Conductor cross section	1.5 mm² ... 6 mm² (power contacts)
	0.14 mm² ... 2.5 mm² (control contact)
Connection cross section AWG	16 ... 10 (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 of the individual wire	9 mm (Power 1.5 mm² ... 2.5 mm²)
	8 mm (Control contacts, with a cross section of 0.14 mm² ... 1.5 mm²)
	9.5 mm (power contacts, with a cross section of 4 mm² ... 6 mm²)
	6 mm (Control contacts, with a cross section of 2.5 mm²)

Electrical properties

Rated voltage (III/3)	690 V (power contacts)
	250 V (control contacts)
Rated surge voltage	8 kV (power contacts)
	4 kV (control contacts)
Rated current	40 A (power contacts)
	10 A (control contacts)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500

Material specifications

Flammability rating according to UL 94	V0
Contact material	Cu alloy
Contact carrier material	PC
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag (alternatively Au)
Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 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)

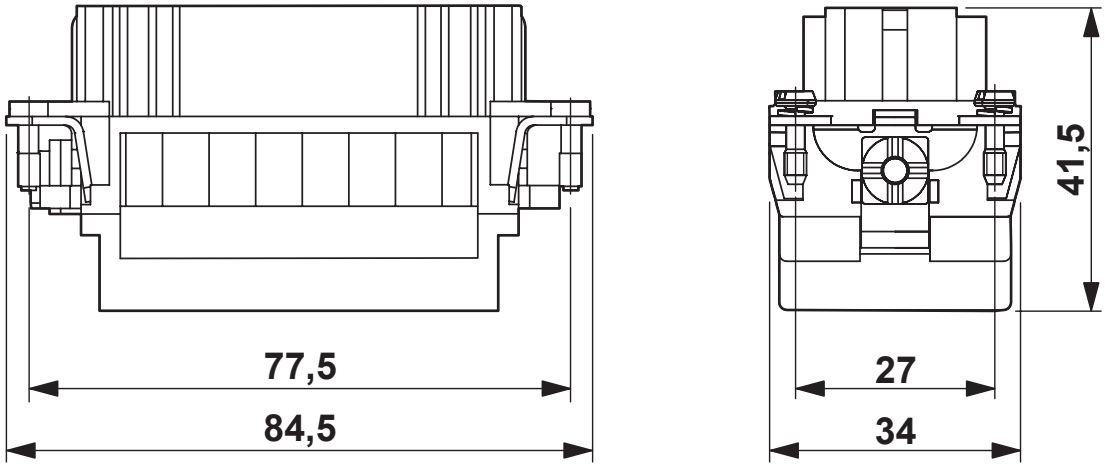
Standards and regulations

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

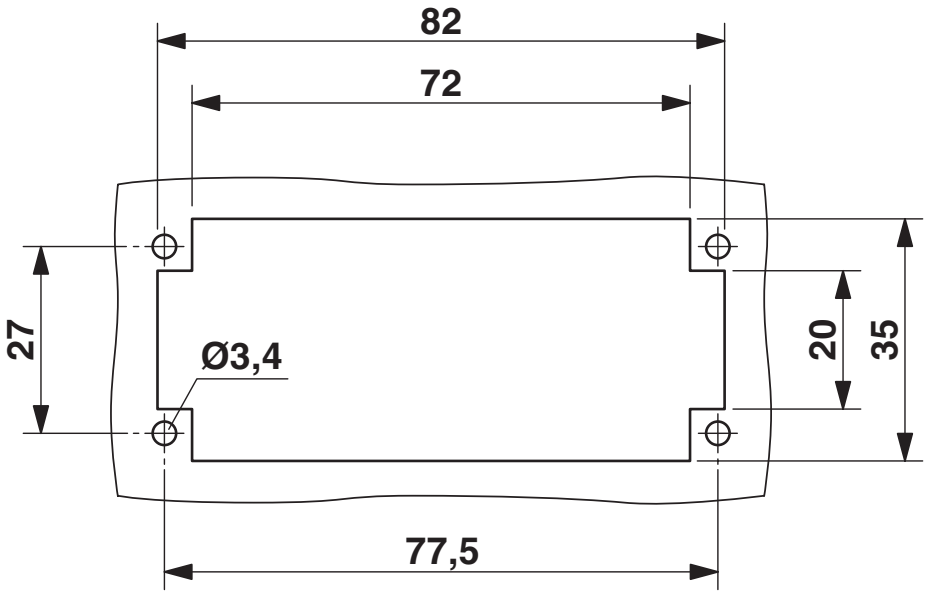
Drawings

Dimensional drawing



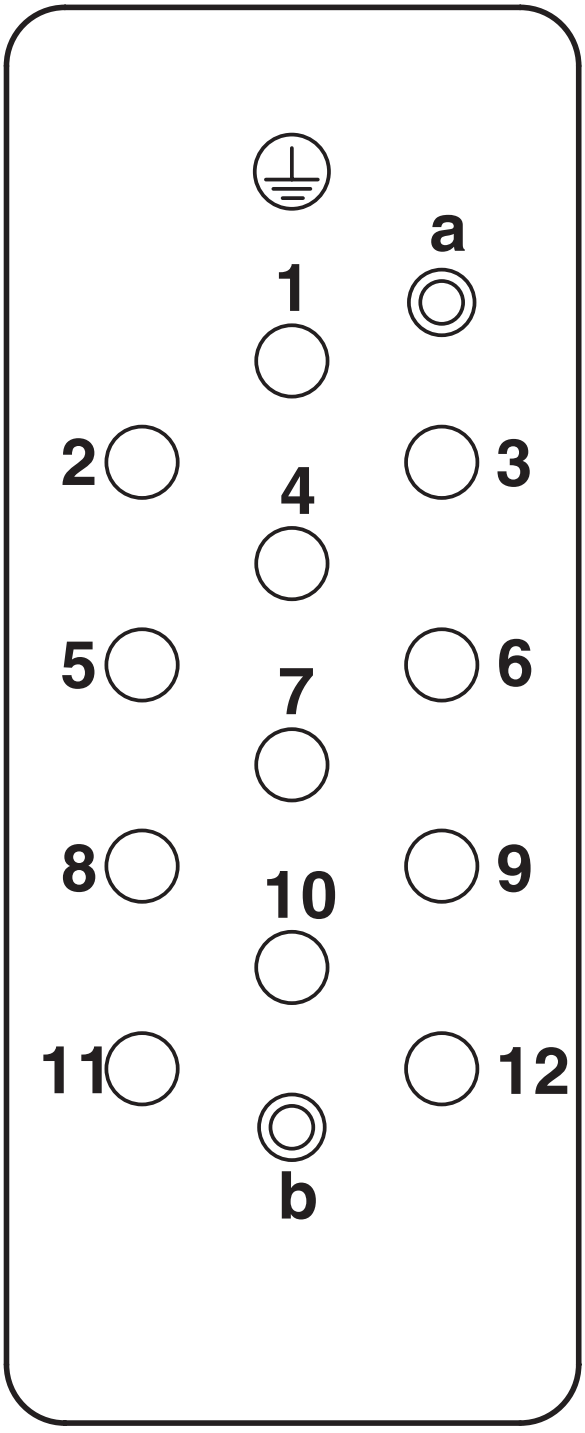
Dimensional drawing

Dimensional drawing



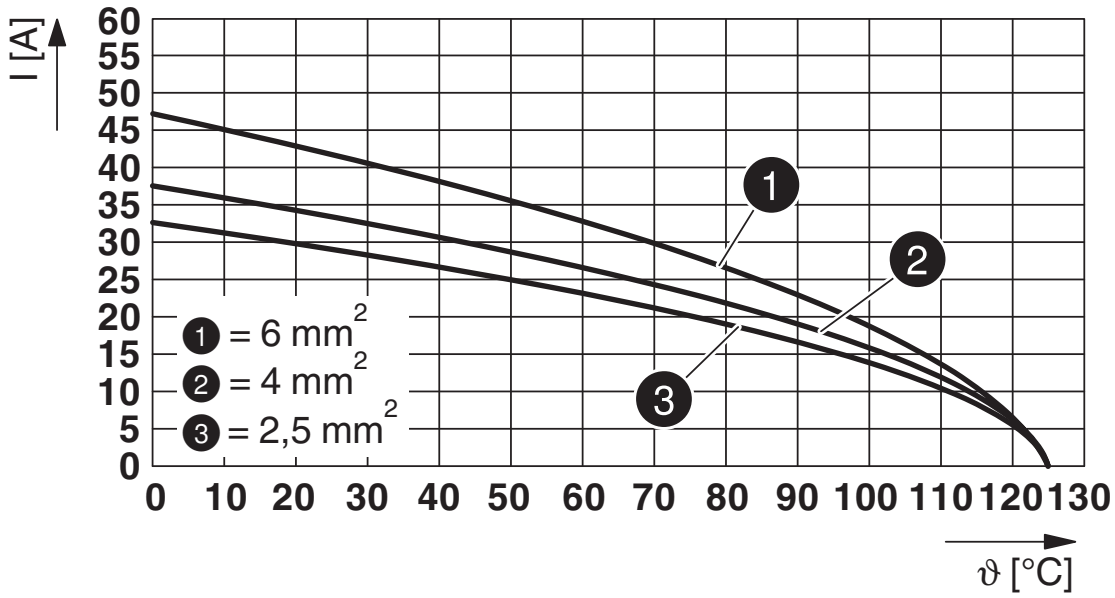
Mounting cutout when used without housing

Schematic diagram



Connector pin assignment, connection side

Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1636347

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	40 A	- 10	-
Control	600 V	10 A	14	-

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000438

UNSPSC

UNSPSC 21.0	39121500

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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