

1496730

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Contact insert, number of positions: 2+PE, size: D7, power contacts: 2, number of connections per position: 1, Socket, Axial screw connection, 830 V, 40 A, 1.5 mm<sup>2</sup> ... 10 mm<sup>2</sup>, application: Power

## Your advantages

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

### Commercial data

Item number	1496730
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF7ABJ
Product key	AF7ABJ
GTIN	4063151946197
Weight per piece (including packing)	21.8 g
Weight per piece (excluding packing)	22.22 g
Country of origin	PL



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## Technical data

#### Notes

General	Connectors may be operated only when there is no load/voltage.
General	The axial screw connection must be established using a 2 mm Allen key (for stranded conductors only)

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Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	Note regarding axial connection
	technology:
	Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used. Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use. The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before
	use.
	Assembly instructions
	Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be cut off before reconnection. The terminal screw must only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct execution, see DIN VDE 0100-520:2003-06. Unused connections must be tightened with maximum torque.

#### Product properties

Hexagonal socket

Degree of pollution

Product type	Contact insert with a fixed no. of positions
Series	HC-Q
Application	Power
Туре	D7
Number of positions	2
Connection profile	2+PE
Number of connections per position	1
No. of power contacts	2
Contact material type	turned
Insulation characteristics	
Overvoltage category	III

3

SW2,0



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### **Dimensions**

Mechanical	characteristics
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#### Connection data

#### Connection technology

Connection technology	Axial screw connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN

#### Conductor connection

Conductor connection	
Conductor cross section	1.5 mm <sup>2</sup> 10 mm <sup>2</sup> (The cross section specification refers to the geometric cross section of the cable used)
Tightening torque	0.5 Nm 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	0.5 Nm (1.5 mm²)
	0.8 Nm (2.5 mm <sup>2</sup> 4 mm <sup>2</sup> )
	1.5 Nm (6 mm² 10 mm²)
Stripping length of the individual wire	6 mm
Stripping length	5 mm 7 mm

### Electrical properties

Rated voltage (III/3)	830 V
Rated surge voltage	6 kV
Rated current	40 A

### Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 500

## Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC
Standards/regulations	PC

## Environmental and real-life conditions

### Ambient conditions

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Ambient temperature (operation)	-40 °C 125 °C (including heating up of contacts)

## Standards and regulations

### Testing



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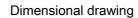
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23,
	and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

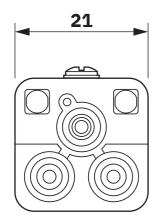


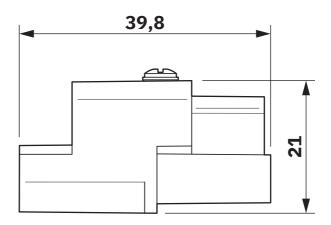
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## Drawings

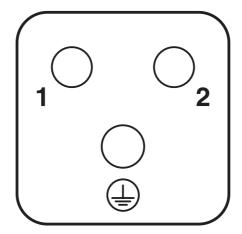






Female insert

Schematic diagram

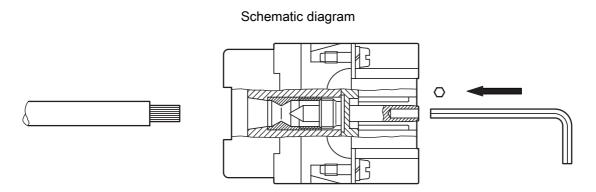


Connector pin assignment

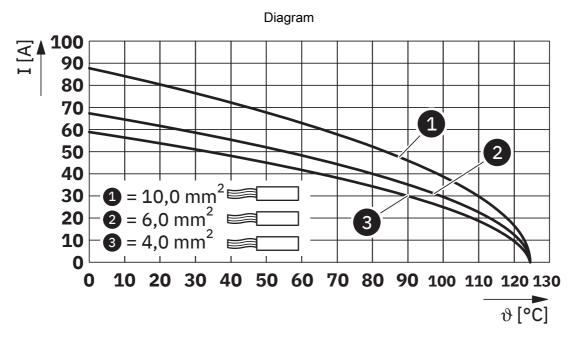


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Axial screw connection



Derating diagram



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## Classifications

### **ECLASS**

	ECLASS-13.0	27440205		
ETIM				
	ETIM 9.0	EC000438		



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## 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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