SB-8EPCD8AA700S - Device connector front mounting

1623722

https://www.phoenixcontact.com/us/products/1623722

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The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

M40, Device connector front mounting, application: Hybrid, series: SB, angled rotatable, shielded: yes, for standard and SPEEDCON interlock, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, Axial O-ring, this item is expected to be lead-free from Q4 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Your advantages

- Easy connection, thanks to infinitely adjustable cable outlet direction up to 310°
- Transmission of signals, data, and power in just a single connector
- CAT5 data interface for up to 100 Mbps
- Mechanical coding reliably prevents incorrect connections
- Safe use in the field, thanks to high degree of protection
- Consistent EMC protection for reliable connection solutions in the industrial environment

Commercial data

Item number	1623722
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCEM
GTIN	4055626194936
Weight per piece (including packing)	602.7 g
Weight per piece (excluding packing)	527.469 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Crimp contacts, 4 x Ø 0.8 mm, 4 x Ø 1 mm, 5 x Ø 3.6 mm, order separately

Product properties

Product type	Circular connectors (device side)

Connector

Insulating body

Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Number (Grp 1 - power contacts or just one contact connection type)	5
Contact diameter (Grp 1 - power contacts or just one contact connection type)	3.6 mm
Litz wires Min. cross section (Grp 1 - power contacts or just one contact connection type)	1 mm²
Litz wires Max. cross section (Grp 1 - power contacts or just one contact connection type)	10 mm²
Rated current Contact (Grp 1 - power contacts or just one contact connection type)	70 A
Rated voltage Contact (Grp 1 - power contacts or just one contact connection type)	630 V AC
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Number (Contact group 3)	4
Contact diameter (Contact group 3)	0.8 mm
Litz wires Max. cross section (Contact group 3)	0.5 mm²
Rated voltage Contact (Contact group 3)	50 V
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Flange housing
Thread type	M40
Design	angled rotatable
Type of locking	for standard and SPEEDCON interlock
Pg screw connection	none

Mounting type	Front mounting/square flange (4x Ø 4,4 mm)
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Material for screw connection	CuZn
Degree of protection (plugged in)	IP68/IP69K
Seal for the device	Axial O-ring

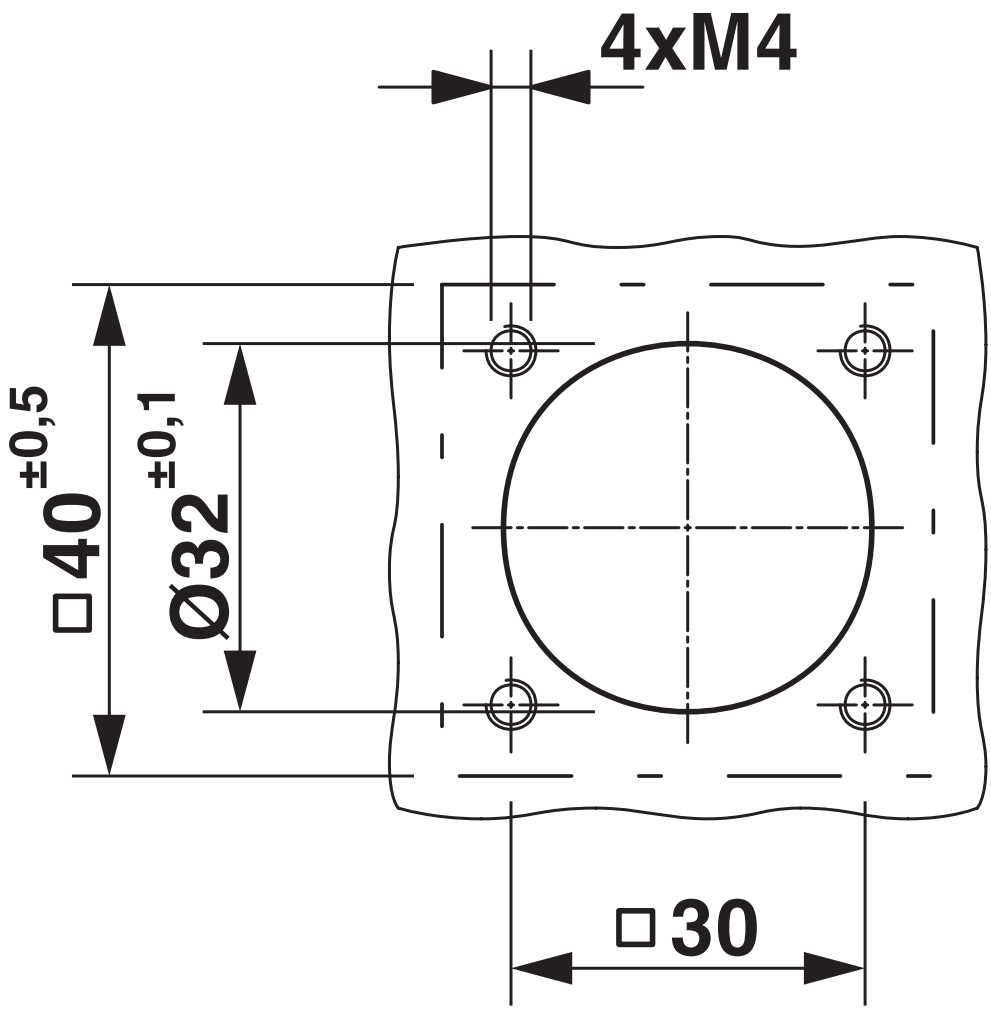
Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 115 °C (see derating curve)

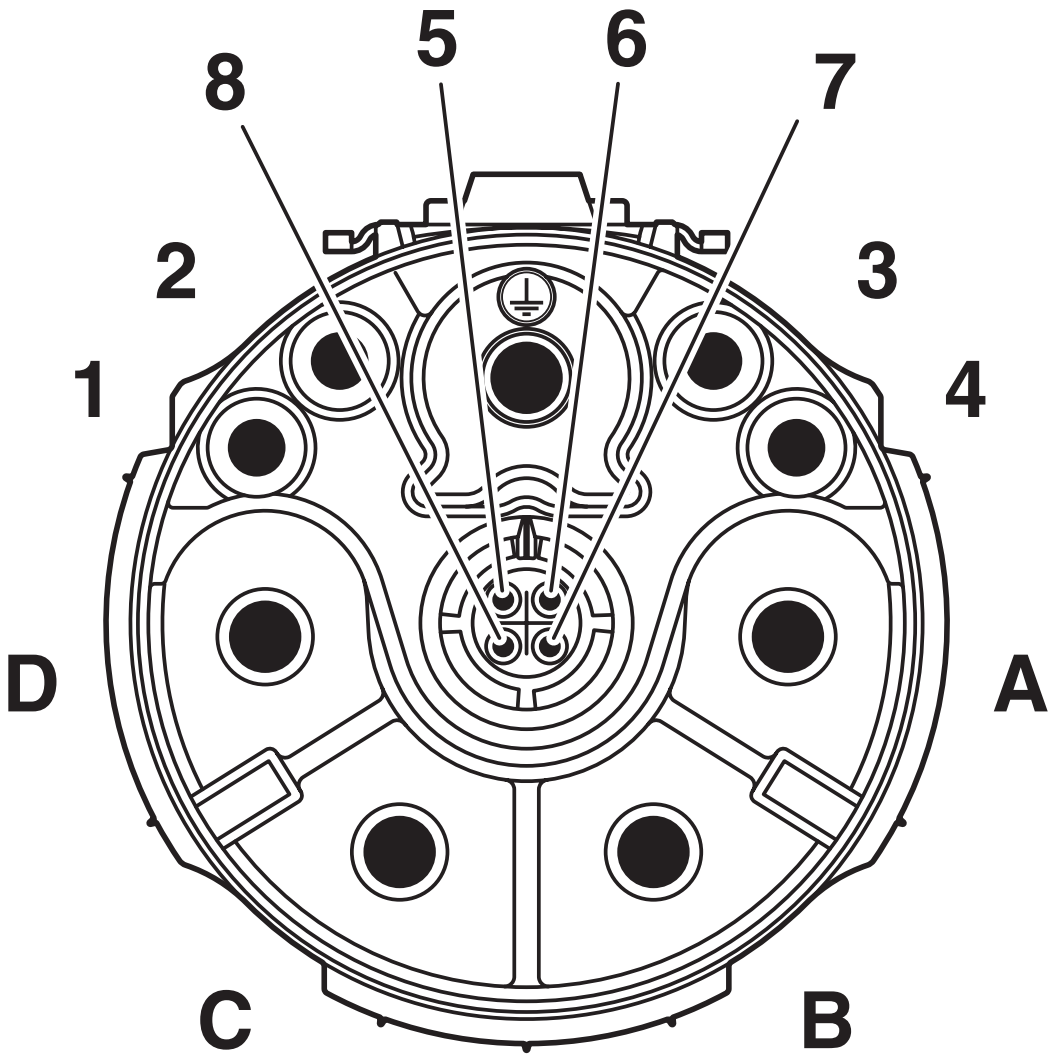
Drawings

Dimensional drawing



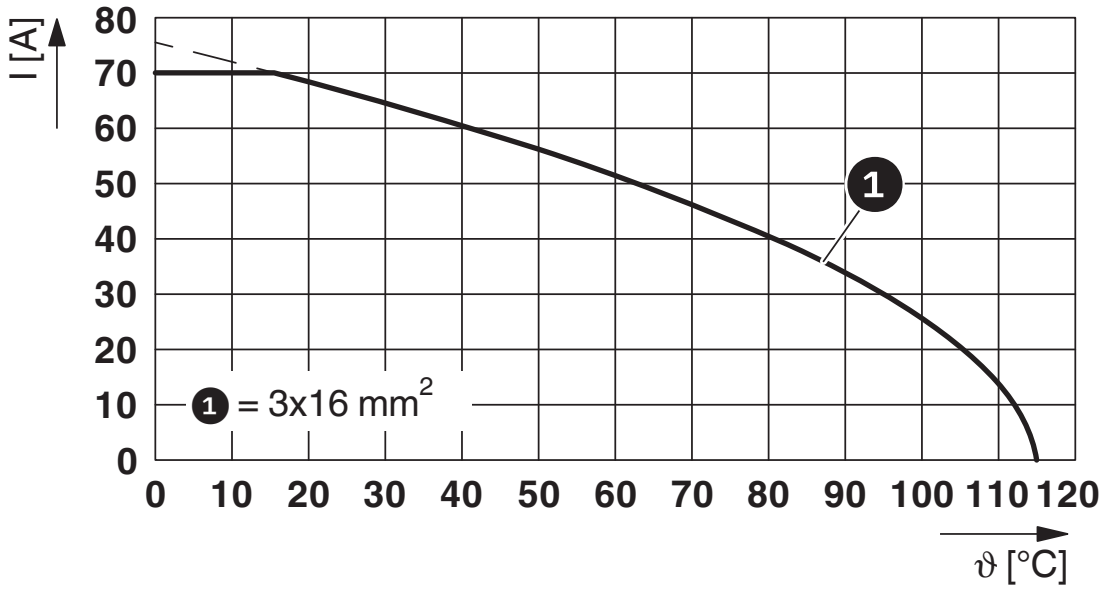
Installation dimensions

Schematic diagram



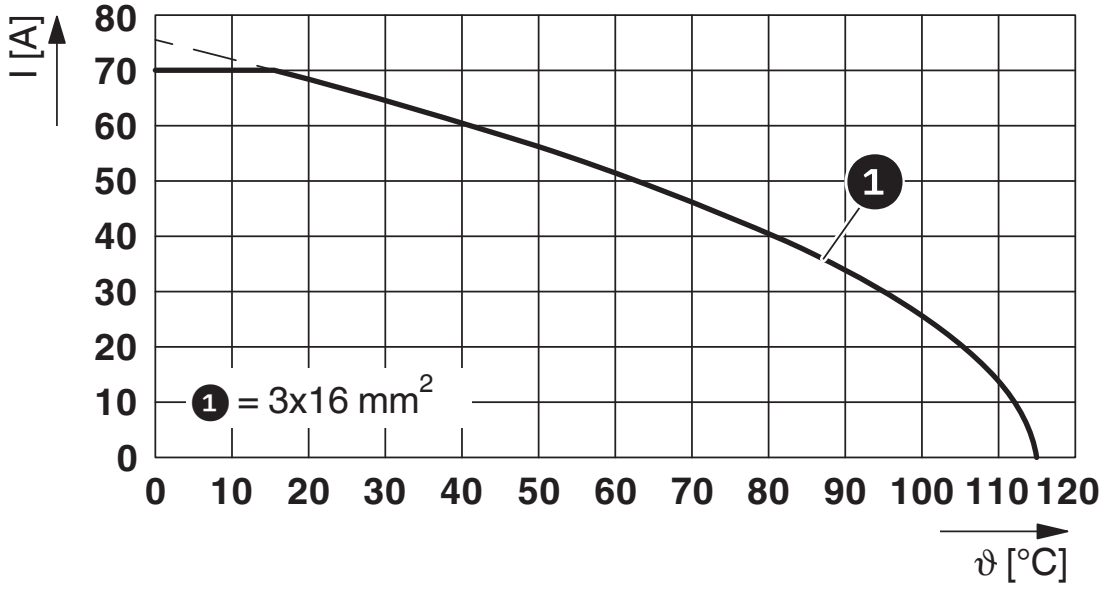
Pin assignment of pin CAT5, coding 2

Diagram



I = current strength, ϑ = ambient temperature, power contacts A–C: 3x up to 70 A, signal contacts: 4x 2 A constant, data contacts: no load

Diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1623722

cULus Recognized
Approval ID: E468743-20170914

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	35 A	8	-
Signal	500 V	4 A	16	-
Data	30 V	1 A	22	-

cUL Recognized
Approval ID: E153698-20190718

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	28 A	8	-
Signal	500 V	4 A	16	-
Data	50 V	1 A	22	-

UL Recognized
Approval ID: E153698-20190718

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	70 A	8	-
Signal	500 V	4 A	16	-
Data	50 V	1 A	22	-

Classifications

ECLASS

ECLASS-13.0	27440109
ECLASS-15.0	27440109

ETIM

ETIM 10.0	EC003569

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	680dad0e-55c0-49a4-9837-1b38f380fcf5

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