SB-8EPCA8AA700S - Device connector front mounting

1623368

https://www.phoenixcontact.com/us/products/1623368

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CAT5



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, No. of pos.: 4+4+4+PE, CAT5, 100 Mbps, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, Axial O-ring, coding: CAT5, coding 1, 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
- Reduced connection time with SPEEDCON fast locking system
- 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	1623368
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCEM
GTIN	4055626194929
Weight per piece (including packing)	610.1 g
Weight per piece (excluding packing)	527.599 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)

Electrical properties

Transmission speed	100 Mbps

Connector

Insulating body

Coding	CAT5, coding 1
Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Connection profile	4+4+4+PE
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 (for max. connection cross section)
Rated voltage Contact (Grp 1 - power contacts or just one contact connection type)	630 V AC
	850 V DC
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 current Contact (Contact group 3)	for max. connection cross section
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

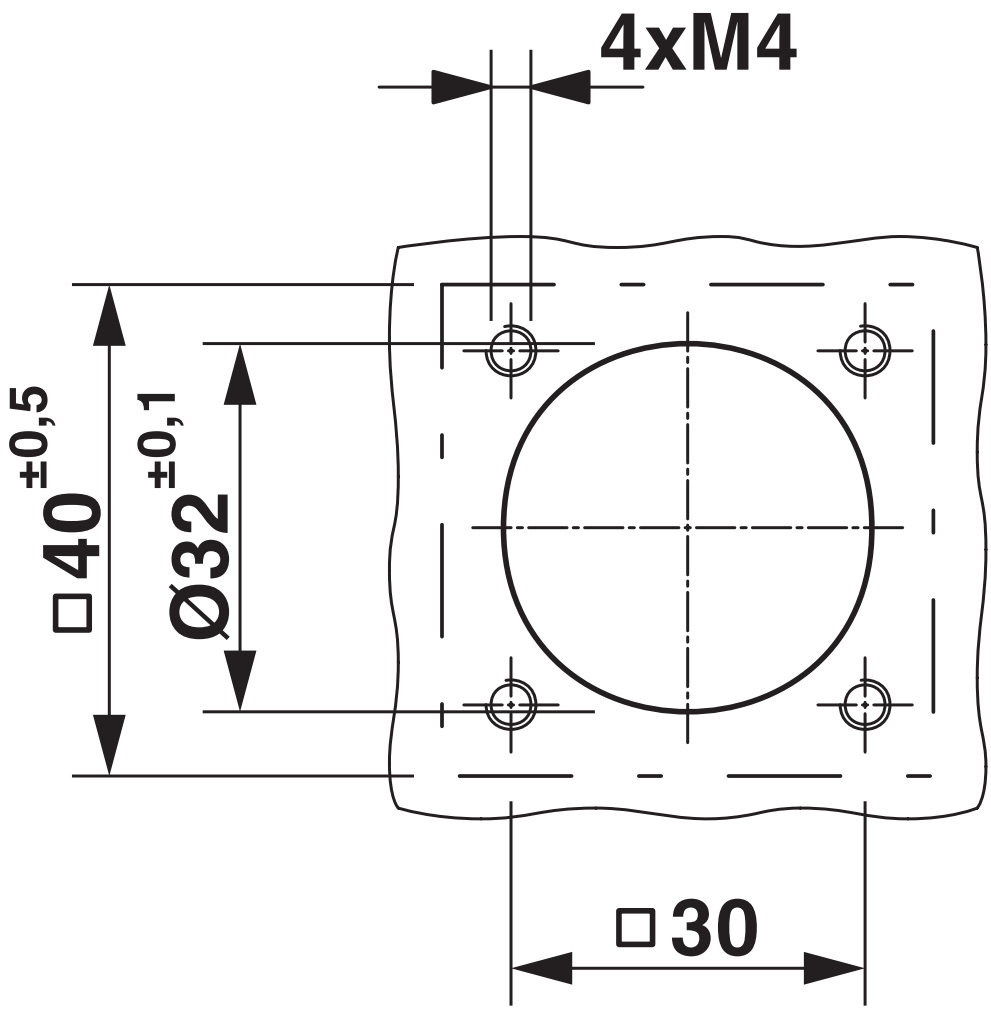
Environmental and real-life conditions

Ambient conditions

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

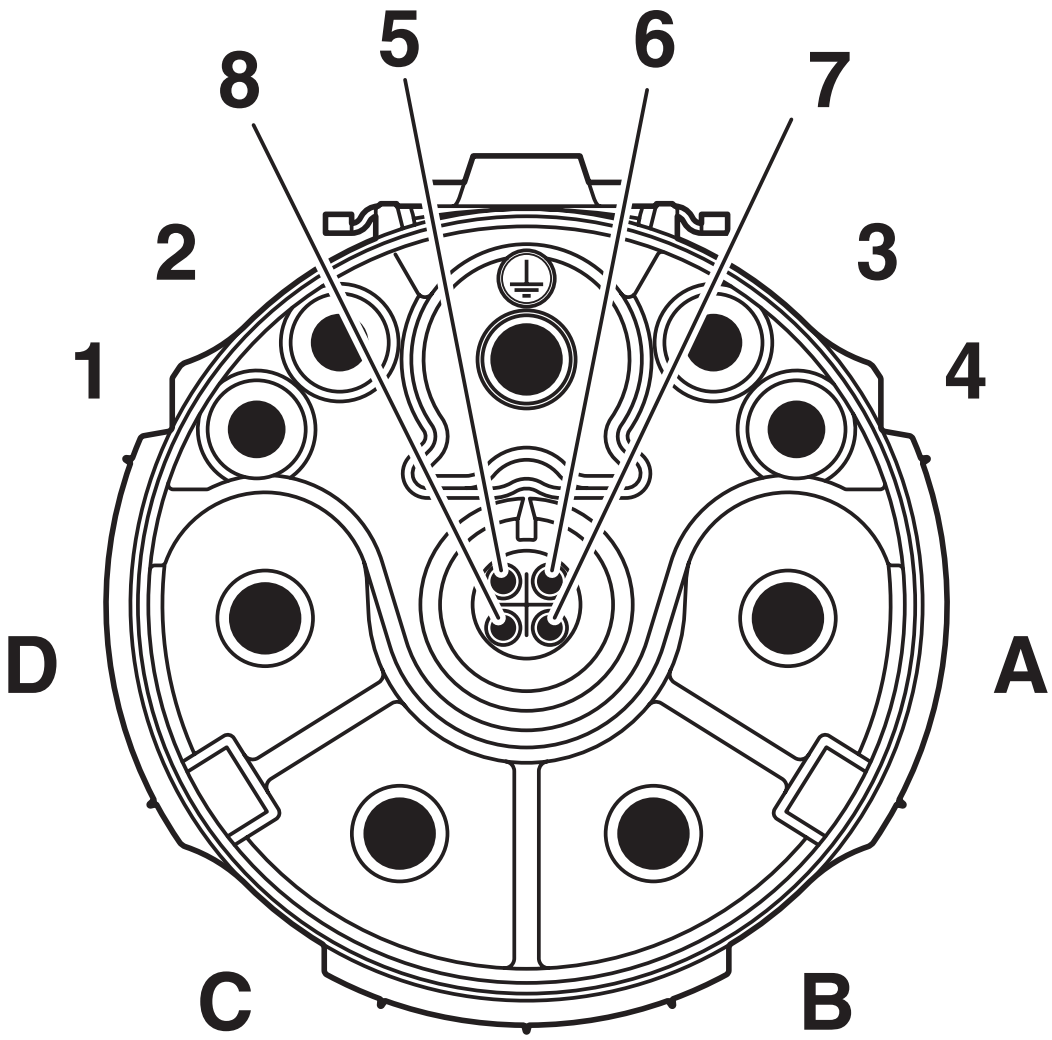
Drawings

Dimensional drawing



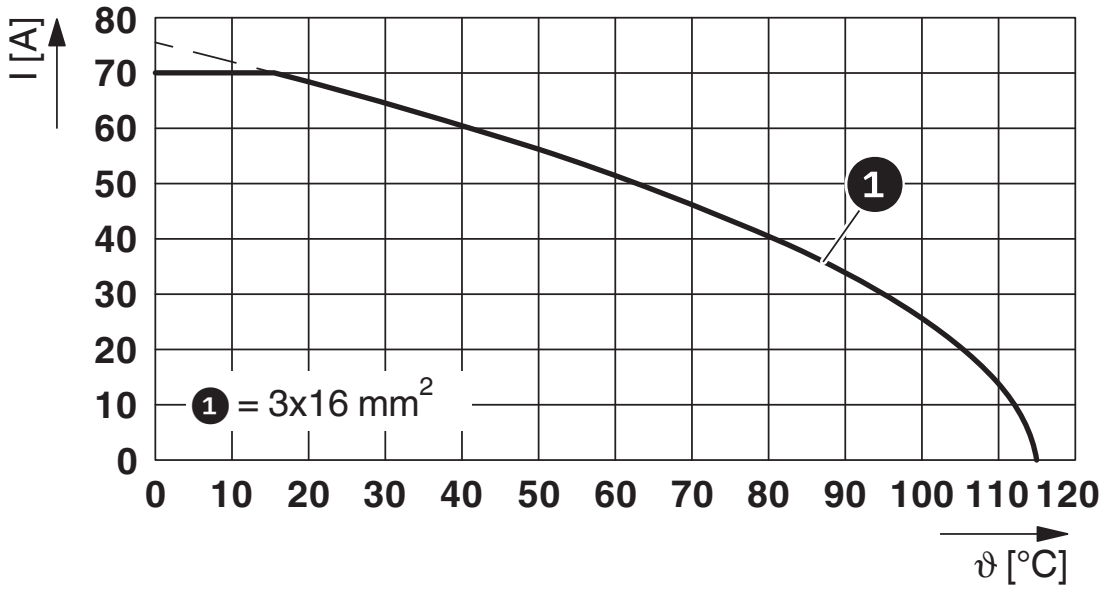
Installation dimensions

Schematic diagram



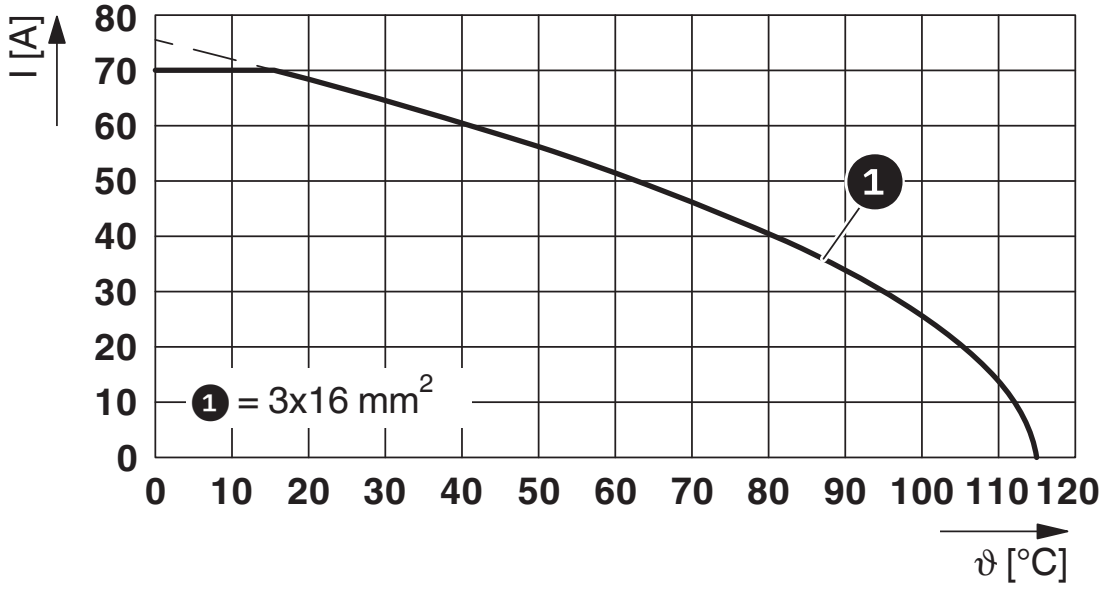
Pin assignment of pin CAT5, coding 1

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/1623368

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	81133265-8e74-44cf-8bbe-1c08ab0227ac

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