M17-8EP1N8AA500S - Device connector front mounting

1628503

https://www.phoenixcontact.com/us/products/1628503

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

M17, Device connector front mounting, application: Power, series: M17 PRO, angled rotatable, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 5+3+PE, contact connection type: Pin, Crimp connection, flange dimensions: 26 mm x 26 mm, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

Your advantages

- Solutions with cross-manufacturer compatibility for standard and fast locking systems
- Modern, consistent design for highly convenient operation
- Crimping connection: vibration- and temperature-resistant assembly
- All housing can be fitted with pin or socket contacts
- Safe use in the field, thanks to high degree of protection

Commercial data

Item number	1628503
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBAM
GTIN	4055626707112
Weight per piece (including packing)	93.4 g
Weight per piece (excluding packing)	77.628 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Order information:	Order crimp contacts 5 x 0.6 mm, 4 x Ø 1 mm separately

Product properties

Product type	Circular connectors (device side)
Product family	M17 PRO

Connector

Insulating body

Flammability rating according to UL 94	V0
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	9
Connection profile	5+3+PE
Installation height	2000 m
Number (Contact group 1)	4
Contact diameter (Contact group 1)	1 mm
Litz wires Min. cross section (Contact group 1)	0.06 mm²
Litz wires Max. cross section (Contact group 1)	1 mm²
Rated current Contact (Contact group 1)	14 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	630 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Number (Contact group 2)	5
Contact diameter (Contact group 2)	0.6 mm
Litz wires Max. cross section (Contact group 2)	0.5 mm²
Rated current Contact (Contact group 2)	3.6 A (for max. connection cross section)
Rated voltage Contact (Contact group 2)	60 V
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Flange housing
Thread type	M17
Design	angled rotatable
Type of locking	for standard and ONECLICK fast locking system
Mounting type	Front mounting/square flange (4x Ø 3.1 mm)

Flange dimensions	26 mm x 26 mm
Housing material	GD-Zn
Seal material	FKM
Degree of protection (plugged in)	IP67
	IP68 (2 m / 24 h)

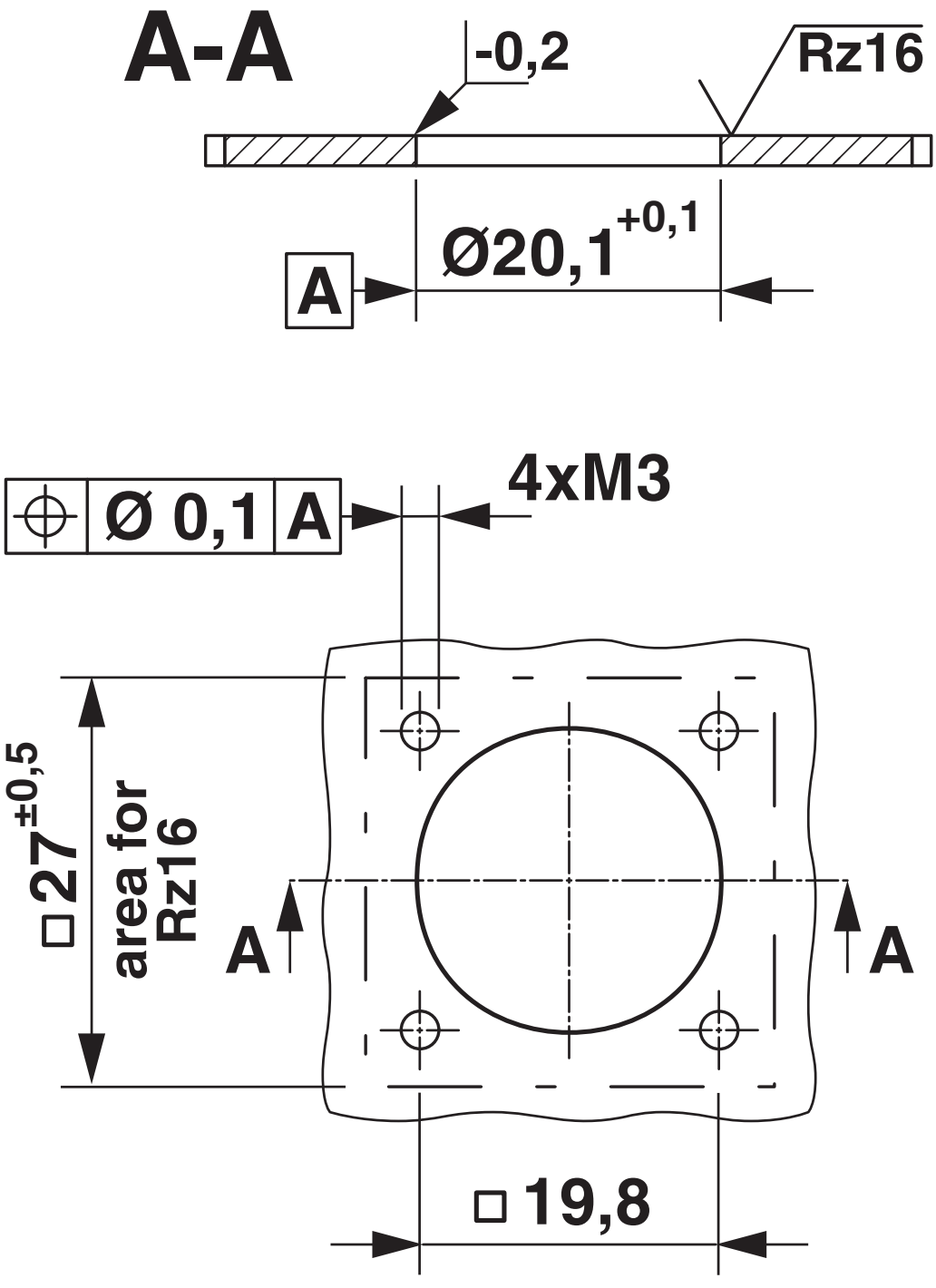
Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (see derating curve)

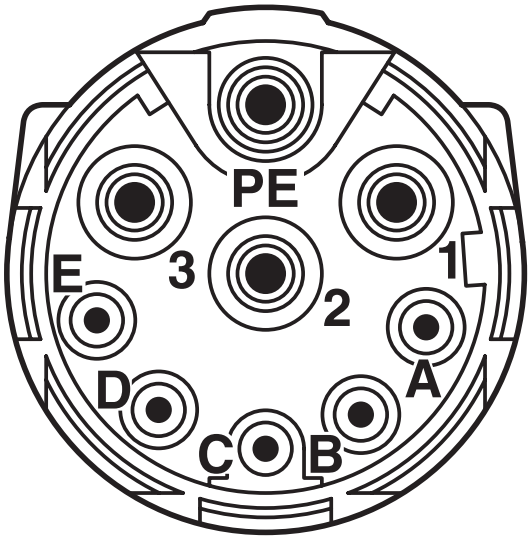
Drawings

Dimensional drawing



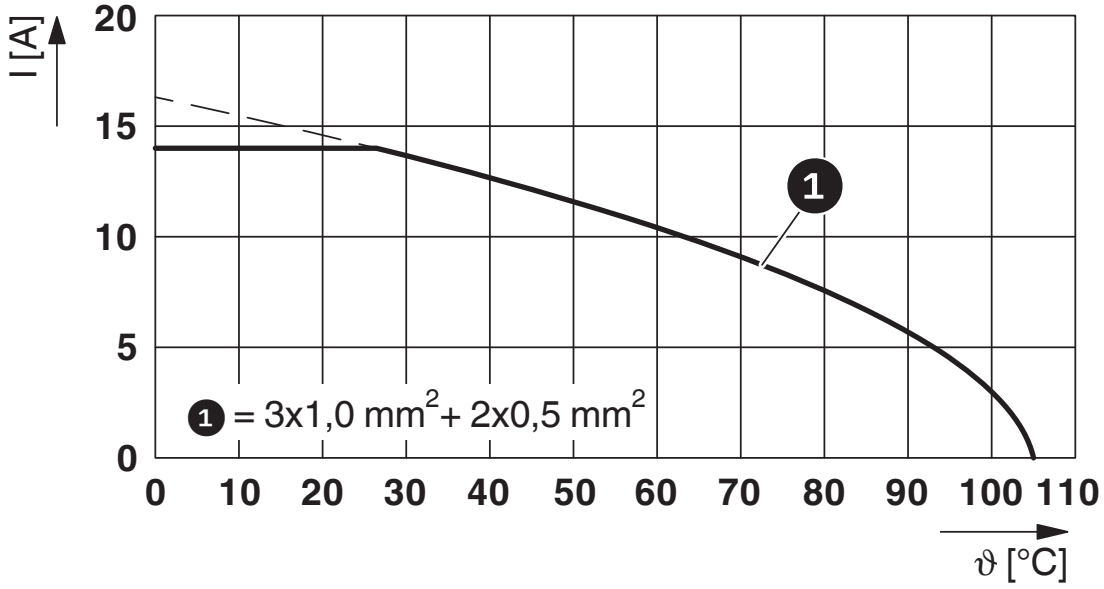
Installation dimensions

Schematic diagram



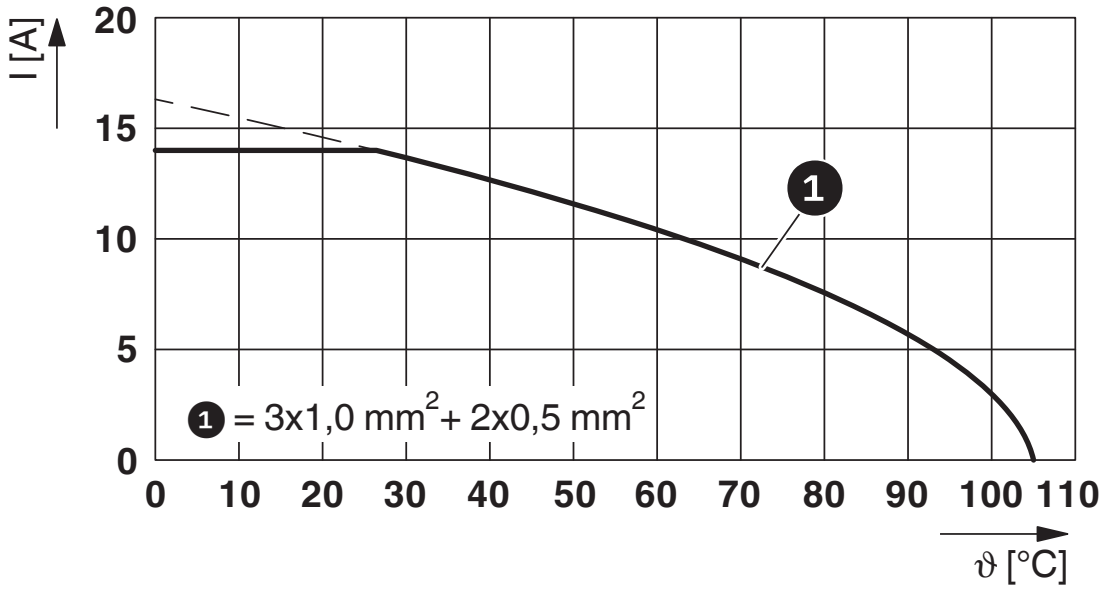
Connector pin assignment

Diagram



I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant

Diagram



I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628503

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	10 A	- 18	1
Signal	60 V	2 A	- 20	1

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	8 A	- 18	-
Signal	60 V	2 A	- 20	-

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, 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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