M17-6EP1N8AA600S - Device connector front mounting

1628509

https://www.phoenixcontact.com/us/products/1628509

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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.: 6+PE, contact connection type: Pin, Crimp connection, flange dimensions: 28 mm x 28 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	1628509
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBAM
GTIN	4055626707174
Weight per piece (including packing)	103.8 g
Weight per piece (excluding packing)	87.358 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order 7 x Ø 1 mm crimp contacts separately

Product properties

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

Material specifications

Flammability rating according to UL 94	V0

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	7
Connection profile	6+PE
Number (Contact group 1)	6
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

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 M3)
Flange dimensions	28 mm x 28 mm
Housing material	GD-Zn
Seal material	FKM
Degree of protection (plugged in)	IP67
	IP68 (2 m / 24 h)

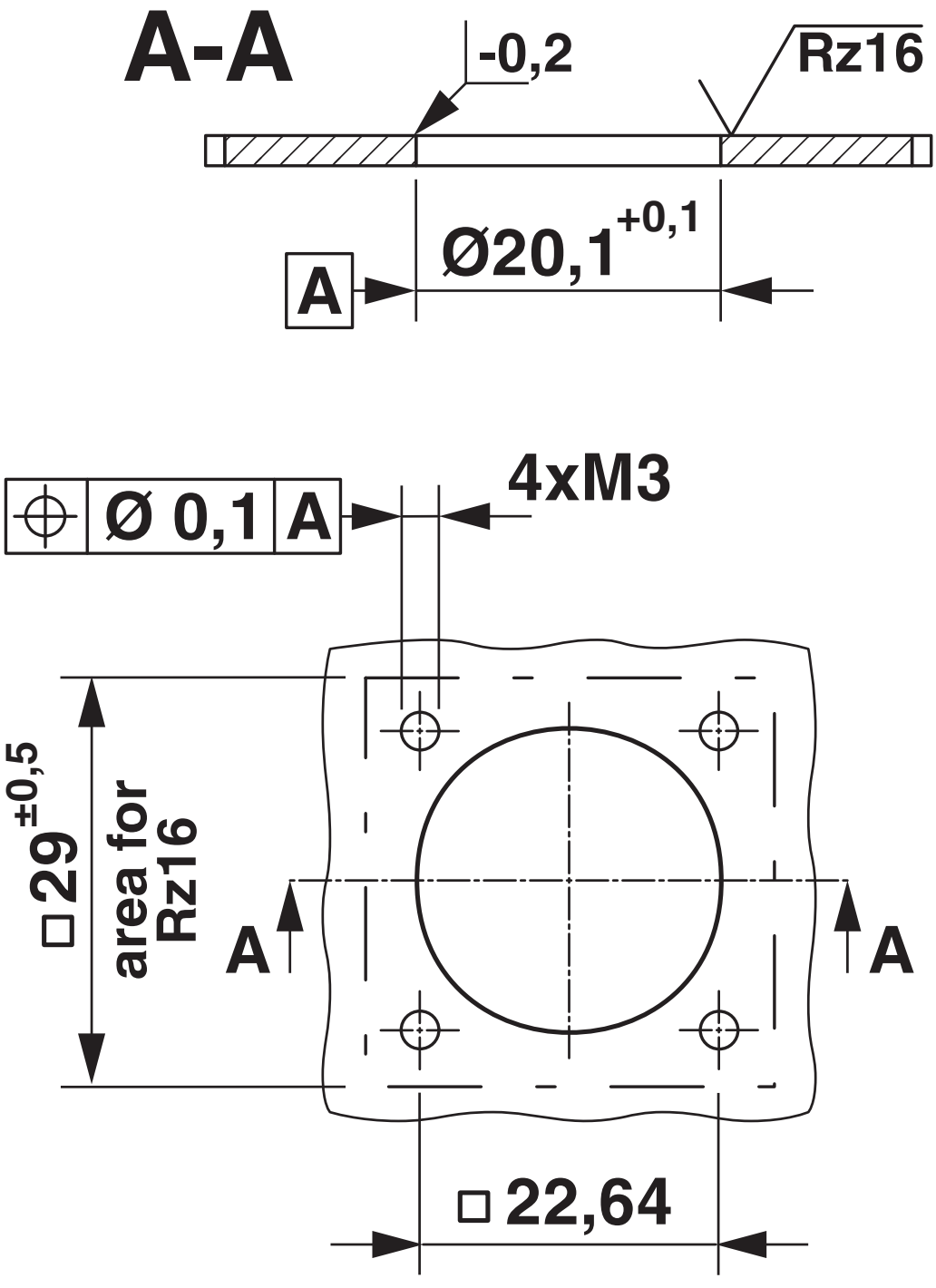
Environmental and real-life conditions

Ambient conditions

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

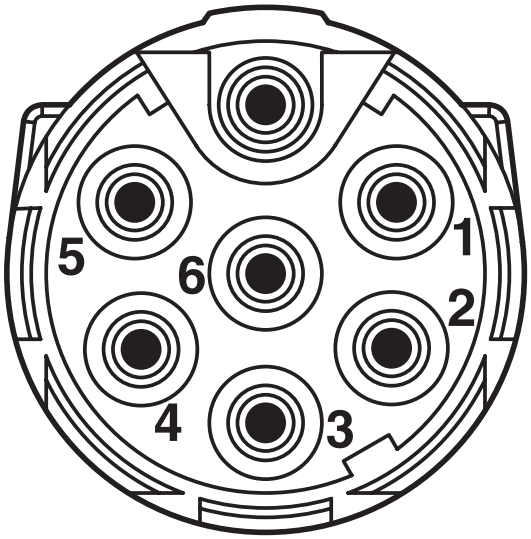
Drawings

Dimensional drawing



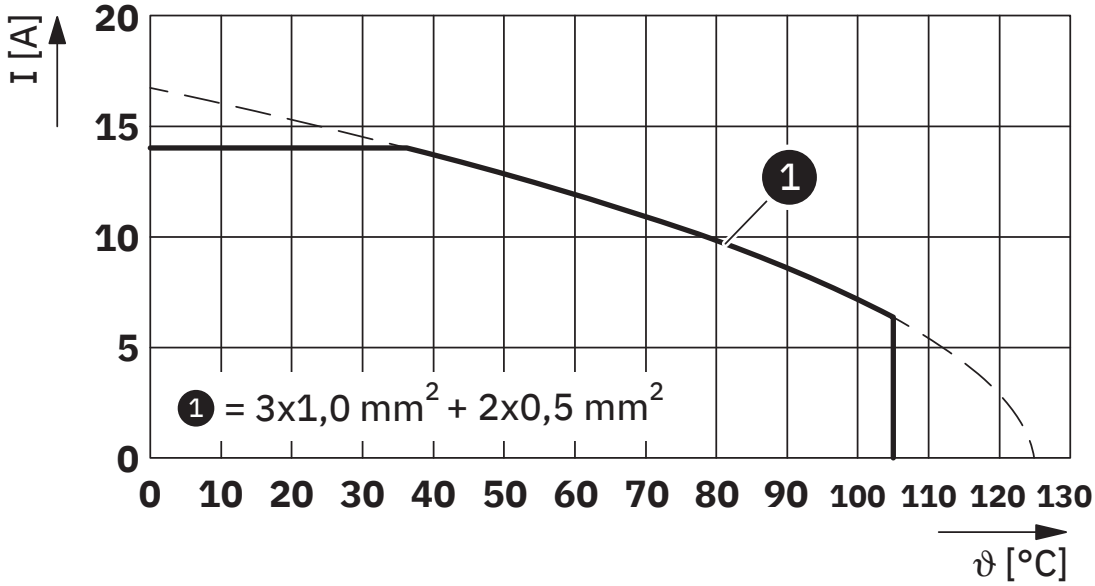
Installation dimensions

Schematic diagram



Connector pin assignment

Diagram



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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628509

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	- 18	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	- 18	-

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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