

1628501

https://www.phoenixcontact.com/us/products/1628501

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M17, Device connector front mounting, 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: 28 mm x 28 mm, coding: N, 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	1628501
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBAM
GTIN	4055626707099
Weight per piece (including packing)	104 g
Weight per piece (excluding packing)	94 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
Safety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	<ul> <li>WARNING: Commission properly functioning products only.         The products must be regularly inspected for damage.         Decommission defective products immediately. Replace damaged products. Repairs are not possible.     </li> </ul>
	<ul> <li>WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.</li> </ul>
	<ul> <li>The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
	<ul> <li>When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> </ul>
	<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul> <li>Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
	VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	Only use tools recommended by Phoenix Contact
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
	<ul> <li>Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>
	<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>
	<ul> <li>The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting</li> </ul>



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	warnings (e.g. DIN EN ISO 13732-1:2008-12).
	Mariningo (0.9. 5.11 E11 100 101 02 1.2000-12).
Product properties	
Product type	Circular connectors (device side)
Data management status	
Article revision	05
Material specifications	
Flammability rating according to UL 94	V0
Connector	
Insulating body	
Coding	N
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	9
Connection profile	5+3+PE
Contact diameter Power contacts	1 mm
Litz wire cross-section Power contacts min.	0.06 mm <sup>2</sup>
Litz wire cross-section Power contacts max.	1 mm²
Rated current Power contacts	14 A
Note	for max. connection cross section
Rated voltage	630 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Signal contacts	0.6 mm
Litz wire cross-section Signal contacts min.	0.06 mm²
Litz wire cross-section Signal contacts max.	0.5 mm²
Nominal current per signal contact	3.6 A
Note	for max. connection cross section
Rated voltage Signal contact	60 V
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Installation height	2000 m
Housing	
Housing material	GD-Zn
-	



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Flange dimensions	28 mm x 28 mm
Type of locking	for standard and ONECLICK fast locking system
Degree of protection (plugged in)	IP67
	IP68, 24 h / 2 m
Thread type	M17

#### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C 105 °C (see derating curve)
Ambient temperature (storage/transport)	15 °C 25 °C
Permissible humidity (storage/transport)	50 % 65 %

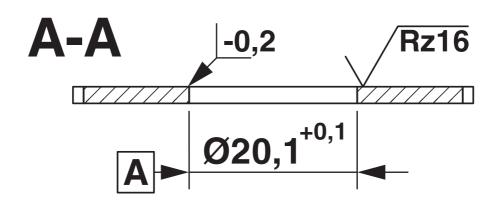


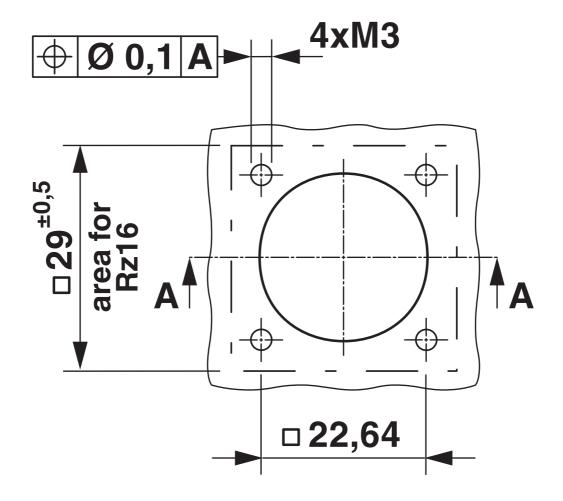
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### **Drawings**

Dimensional drawing





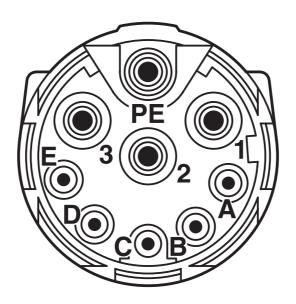
Installation dimensions



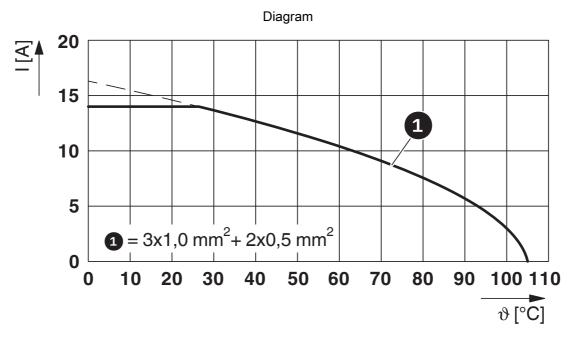
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#### Schematic diagram



#### Connector pin assignment



I = current strength,  $\vartheta$  = ambient temperature, 3x 14 A + 2x 2 A constant



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628501

<b>UL Listed</b> Approval ID: E46874	3-20230831			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	10 A	-	1
Signal	600 V	2 A	-	1

cUL Listed Approval ID: E468743-202	230831			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	8 A	1	-
Signal	60 V	2 A	1	-

cUL Listed Approval ID: E468743-202	230831			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	8 A	-	-
Signal	60 V	2 A	-	-

UL Listed Approval ID: E468743-202	30831			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	10 A	-	-
Signal	600 V	2 A	-	-



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### Classifications

#### **ECLASS**

UNSPSC 21.0

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109
ETIM	
ETIM 9.0	EC003569
UNSPSC	

39121400



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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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