

Data sheet | Item number: 231-169/003-000

Male connector for rail-mount terminal blocks; 1.2 x 1.2 mm pins; straight;

Pin spacing 5 mm; 9-pole; gray



231-169_003-000

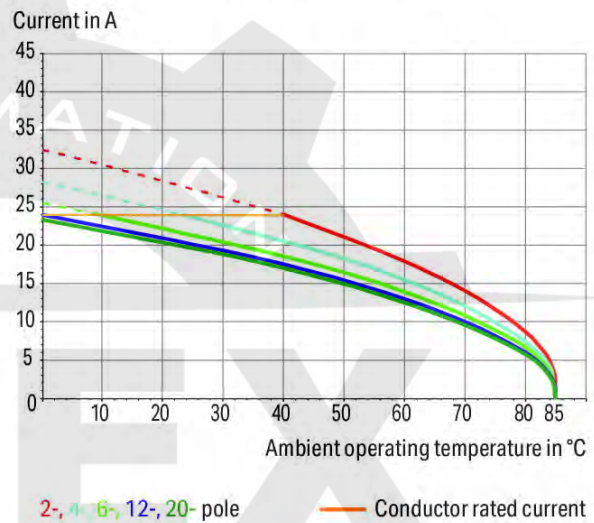


Derating Curve

1-conductor female connector (231-102/026-000) with
male connector (231-162/003-000)

Pin spacing: 5 mm / Conductor cross-section: 2.5 mm² "f-st"

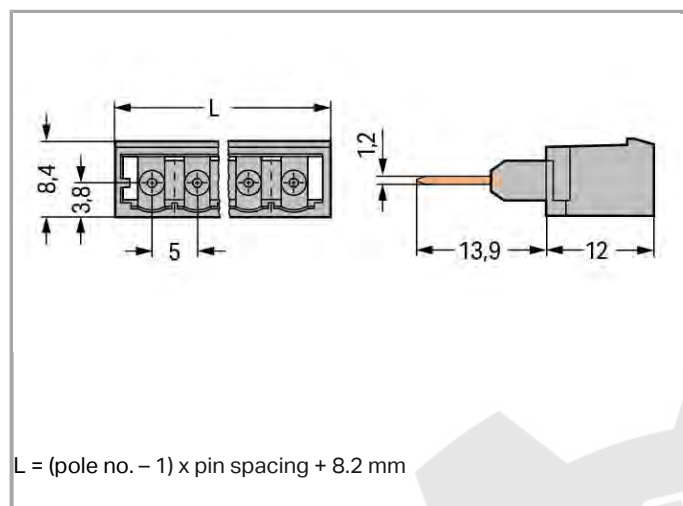
Based on: EN 60512-5-2 / Reduction factor: 0.8



RoHS
Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:



Item description

- Pluggable connectors for rail-mount terminal blocks equipped with CAGE CLAMP® connection
- Male connectors with long contact pins connect to the termination ports of 280 Series Rail-Mount Terminal Blocks
- Pins can be touched when the connector is unplugged, so power supply should be performed via terminal block (observe rated voltage!)
- With coding fingers

Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Data

Electrical data

Ratings per IEC/EN 60664-1

Rated voltage (III / 3)	250 V
Rated impulse voltage (III / 3)	4 kV
Rated voltage (III / 2)	320 V
Rated impulse voltage (III / 2)	4 kV
Rated voltage (II / 2)	630 V
Rated impulse voltage (II / 2)	4 kV
Rated current	16 A

Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group D)	300 V

Approvals per UL 1977

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	15 A

Approvals per CSA

Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	15 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data

Total number of potentials	9
Number of connection types	1
Number of levels	1
No. of poles	9

Geometrical Data

Pin spacing	5 mm / 0.197 inch
Width	48.2 mm / 1.898 inch
Height	25.9 mm / 1.02 inch
Height from the surface	12 mm / 0.472 inch
Depth	8.4 mm / 0.331 inch

Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for front-entry wiring terminal block
Mismating protection	No

Material Data

Color	gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E_{Cu})
Contact plating	tin-plated
Fire load	0.069 MJ
Weight	5.111 g

Environmental Requirements

Limit temperature range	-60 +100 °C
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Commercial data

Product Group	3 (Multi Conn. System)
Country of origin	PL
GTIN	4044918905299
Customs Tariff No.	85366990990

Approvals / Certificates

Radio-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-39756
	CSA DEKRA Certification B.V.	C22.2	1466354

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	14- HG1241537- PDA
	CB DEKRA Certification B.V.	IEC 61984	NL-39756
	CSA DEKRA Certification B.V.	C22.2	1466354
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	14- HG1241537- PDA



DNV GL
 Det Norske Veritas, Germanischer Lloyd

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TAE000016Z

Other Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH	UL 1059	E45172
	UR UL International Germany GmbH	UL 1977	E45171

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1059	E45172-19911118
	UR UL International Germany GmbH	UL 1977	E45171

Compatible products

Coding

	Item no.: 231-129 Coding key; snap-on type; light gray	231-129
	Item no.: 231-500 Spacer; for formation of groups; light gray	231-500

Marking accessories

	Item no.: 210-833 Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white	210-833
	Item no.: 210-834 Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white	210-834

Downloads Documentation



Additional Information
Technical explanations

Apr 3, 2019

pdf
3.6 MB

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Subject to changes.