**Product data sheet**

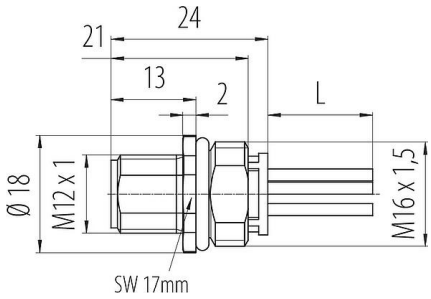
# Automation technology - Voltage and Power Supply

| | |
|---|---|
| Product description | **M12 Male panel mount connector, Contacts: 5, unshielded, single wires, IP68, UL 2238, M16x1.5, Front mounting** |
| Area | **M12-L** |
| Coding | **L-coded** |
| Series | **823** |
| Part no. | **76 0243 0024 00845-0200** |

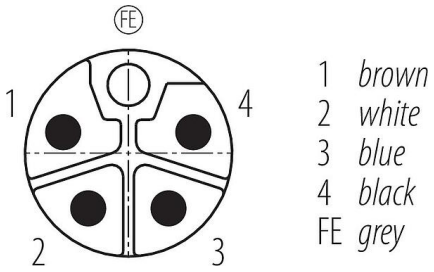
## Illustration (may vary)



## Scale drawing




## Contact arrangement (Plug-in side)




**You can find the assembly instructions on the next page.**

## Technical data

### General features

| | |
|---|---|
| Part no. | 76 0243 0024 00845-0200<br>Alternative part no.: 09 0641 400 05 |
| Notice | Please note that, due to the change from the old to the new order number, there may be deviations in the technical specifications. For questions about product details, please use the 'Contact Customer Service' form on the right. |
| Connector design | Male panel mount connector |
| Type standard | DIN EN IEC 61076-2-111:2018-10;VDE 0687-76-2-111:2018-10 |
| Coding | L-coded |
| Wire length | 0.2 m (Standard 0.2 m. Other lengths are available on request). |
| Version | Connector pin straight |
| Connector locking system | screw |
| Termination | single wires |
| Degree of protection | IP68 |
| Connection cross-section | 2.50 mm² / AWG 14 |
| Temperature range from/to | -40 °C / 105 °C |
| Mechanical operation | > 100 Mating cycles |
| Weight (g) | 34.45 |
| Customs tariff number | 85369010 |
| Country of Origin | DE |

### Electrical parameters

| | |
|---|---|
| Rated voltage | 63 V |
| Rated impulse voltage | 1500 V |
| Rated current | 16.0 A |
| Insulation resistance | > $10^{10}$ Ω |

**Product data sheet**

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| | |
|---|---|
| Pollution degree | 3 |
| Overvoltage category | III |
| Insulating material group | I |
| EMC compliance | unshielded |

## Material

| | |
|---|---|
| Housing material | Zinc die-cast nickel-plated |
| Contact body material | PA |
| Contact material | CuZn (brass) |
| Contact plating | Au (gold) |
| REACH SVHC | CAS 7439-92-1 (Lead) |
| SCIP number | 35c2bae8-13d0-44c5-8b10-10ac6c729632 |

## Wire Data - Structure of the wire

| | |
|---|---|
| Cross section (mm²) | 5 x 2.50 mm² |
| Cross section (AWG) | 5 x AWG 14 |
| Wire diameter | 2,8 mm |
| Wire colors | brown<br>blue<br>white<br>black<br>grey |
| Sheath material | PVC |
| Wire material | Cu (tinned) |
| Wire structure | 19 x 0.375 mm |

## Wire Data - Electrical properties

| | |
|---|---|
| Rated voltage | 300 V |
| Rated impulse voltage | 3000 V |
| Wire resistance | 8,96 Ω/Km (20°C) |
| Insulation resistance | 20.0 MΩ/Km (20 °C) |

## Wire Data - Thermal properties

| | |
|---|---|
| Temperature range wire in move from / to (°C) | -10 °C / 105 °C |
| Temperature range wire fixed from / to (°C) | -30 °C / 105 °C |

## Authorization/approvals

| | |
|---|---|
| Approvals | UL 2238 |

## Classifications

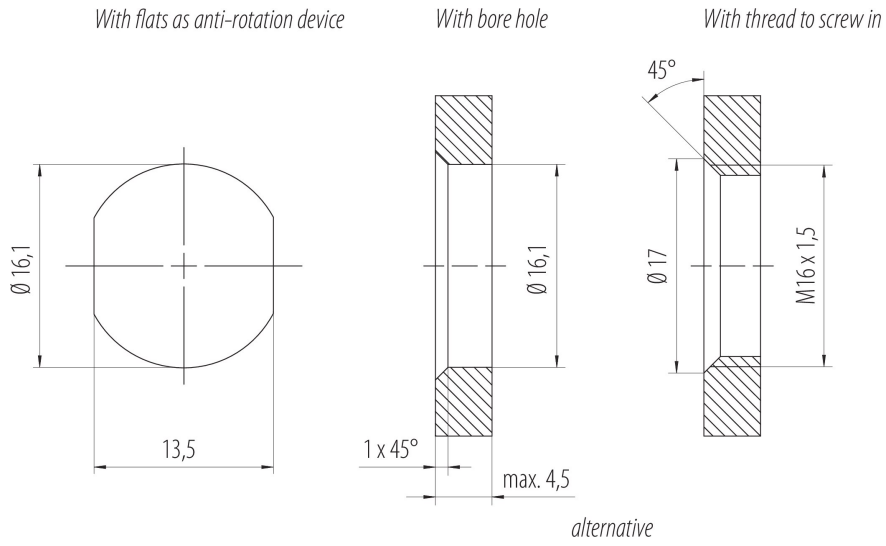
| | |
|---|---|
| eCl@ss 11.1 | 27-44-01-09 |
| ETIM 9.0 | EC003569 |

**Product data sheet**

# Automation technology - Voltage and Power Supply

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## Assembly instructions / Panel cut-out




***Tightening moment***

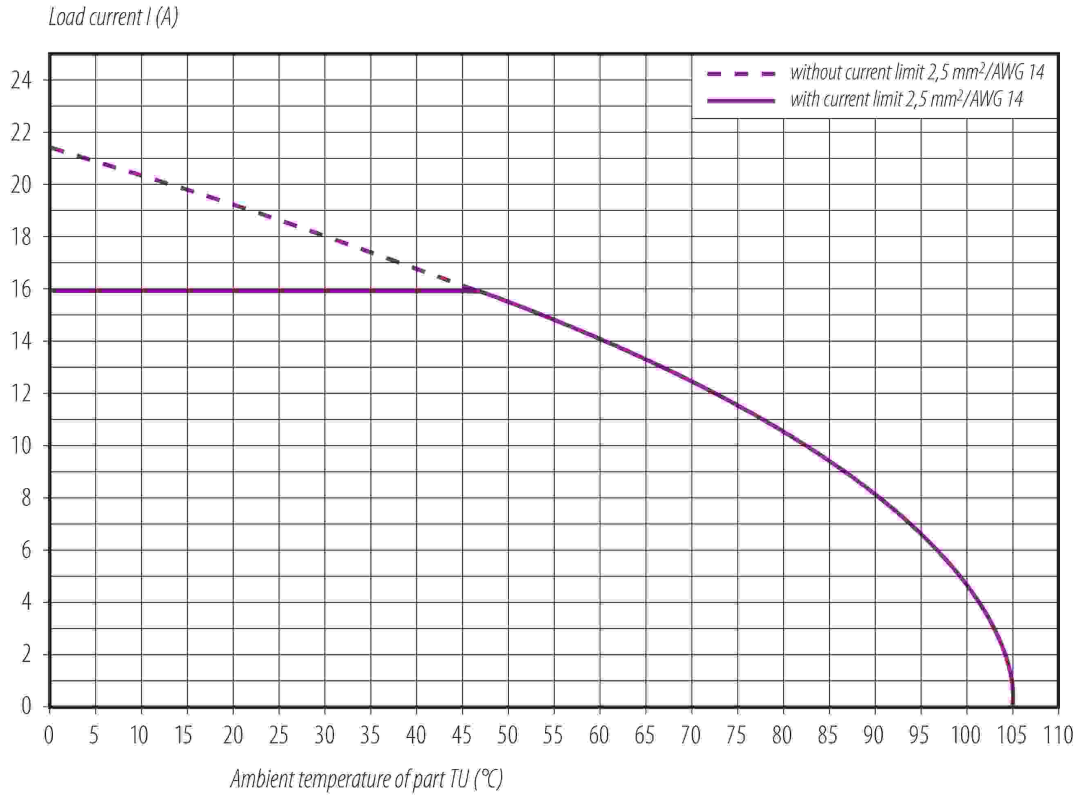
| | |
|---|---|
| *Metal housing* | 1,25 Nm |
| *Plastic housing* | 1,25 Nm |

**Product data sheet**

# Automation technology - Voltage and Power Supply

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## Derating curve



**Product data sheet**

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## Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

Plug connectors with enclosure protection IP67 and IP68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).