**Product data sheet**

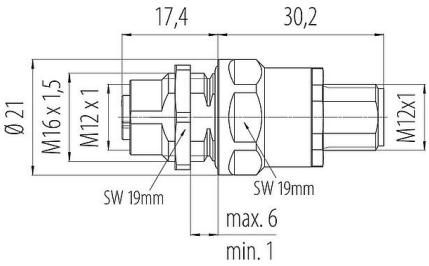
# Automation technology - Voltage and Power Supply

| | |
|---|---|
| Product description | **M12 Lead-through for control cabinet, Contacts: 4+PE, shielded, pluggable, IP67, UL 2238, M12x1.0, Rear mounting** |
| Area | **M12-K** |
| Coding | **K-coded** |
| Series | **824** |
| Part no. | **09 5290 10 05** |

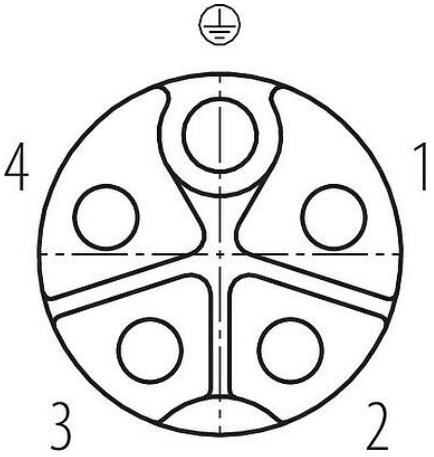
## Illustration (may vary)



## Scale drawing




## Contact arrangement (Plug-in side)




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

## Technical data

### General features

| | |
|---|---|
| Part no. | 09 5290 10 05 |
| Connector design | Lead-through for control cabinet |
| Type standard | DIN EN IEC 61076-2-111:2018-10;VDE 0687-76-2-111:2018-10 |
| Coding | K-coded |
| Version | Lead-through for control cabinets |
| Connector locking system | screw |
| Termination | pluggable |
| Degree of protection | IP67 |
| Temperature range from/to | -40 °C / 85 °C |
| Mechanical operation | > 100 Mating cycles |
| Weight (g) | 40.06 |
| Customs tariff number | 85369010 |
| Country of Origin | DE |

### Electrical parameters

| | |
|---|---|
| Rated voltage | 630 V (600 V UL) |
| Rated impulse voltage | 6000 V |
| Rated current | 12.0 A |
| Pollution degree | 3 |
| Overvoltage category | II |
| Insulating material group | II |

**Product data sheet**

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| | |
|---|---|
| EMC compliance | shielded |

## Material

| | |
|---|---|
| Housing material | CuZn (Brass nickel plated) |
| Contact body material | PA black |
| Contact material | CuZn (brass) |
| Contact plating | Au (gold) |
| REACH SVHC | CAS 7439-92-1 (Lead) |
| SCIP number | ff566f35-f807-4851-ba64-e290dc0c42d0 |

## Authorization/approvals

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

## Classifications

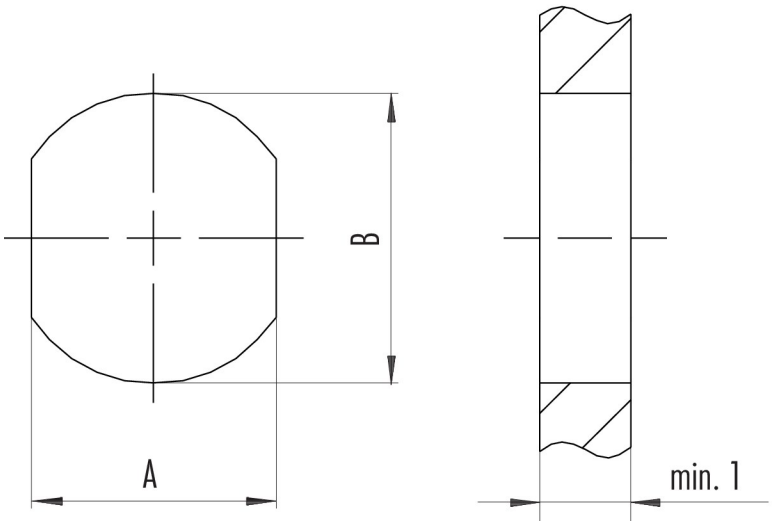
| | |
|---|---|
| ETIM 9.0 | EC003569 |

## Declarations of conformity

| | |
|---|---|
| Low Voltage Directive | EN 60529:1991 \| EN 60204-1:2018 |

### Assembly instructions / Panel cut-out

*Lead-through for control cabinet with bore hole*




| | A | B |
|---|---|---|
| M8 | 13,5 | 16,1 |
| M12 | 13,5 | 16,1 |

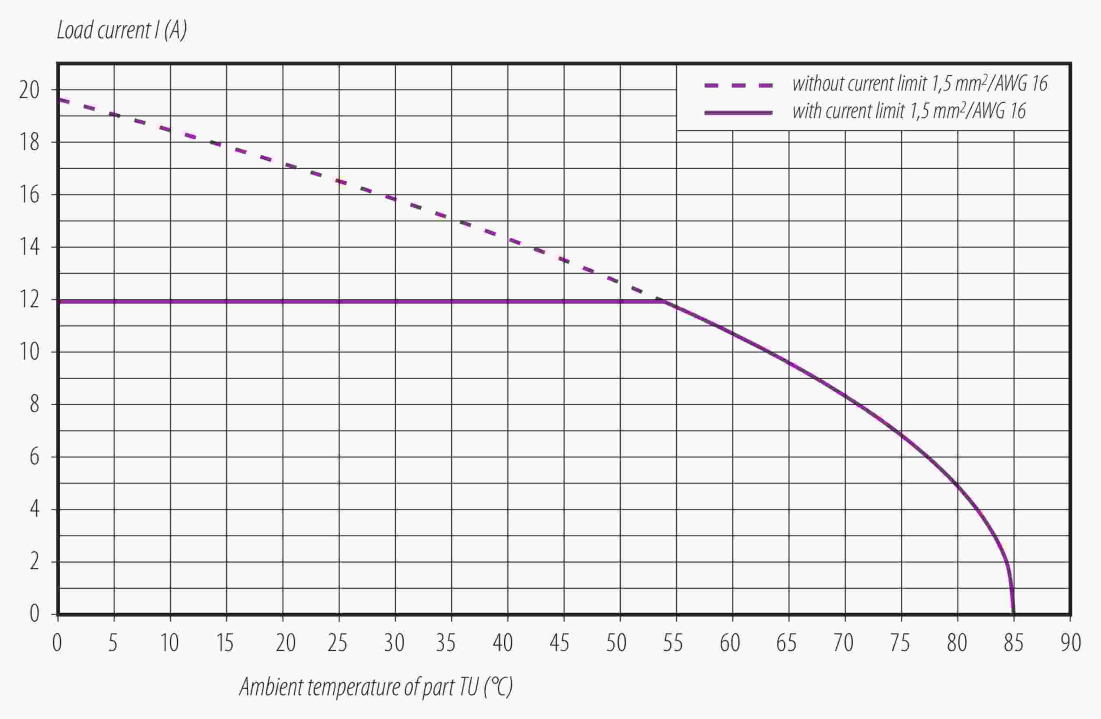
*Tightening torque*
3 Nm

**Product data sheet**

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## Derating curve

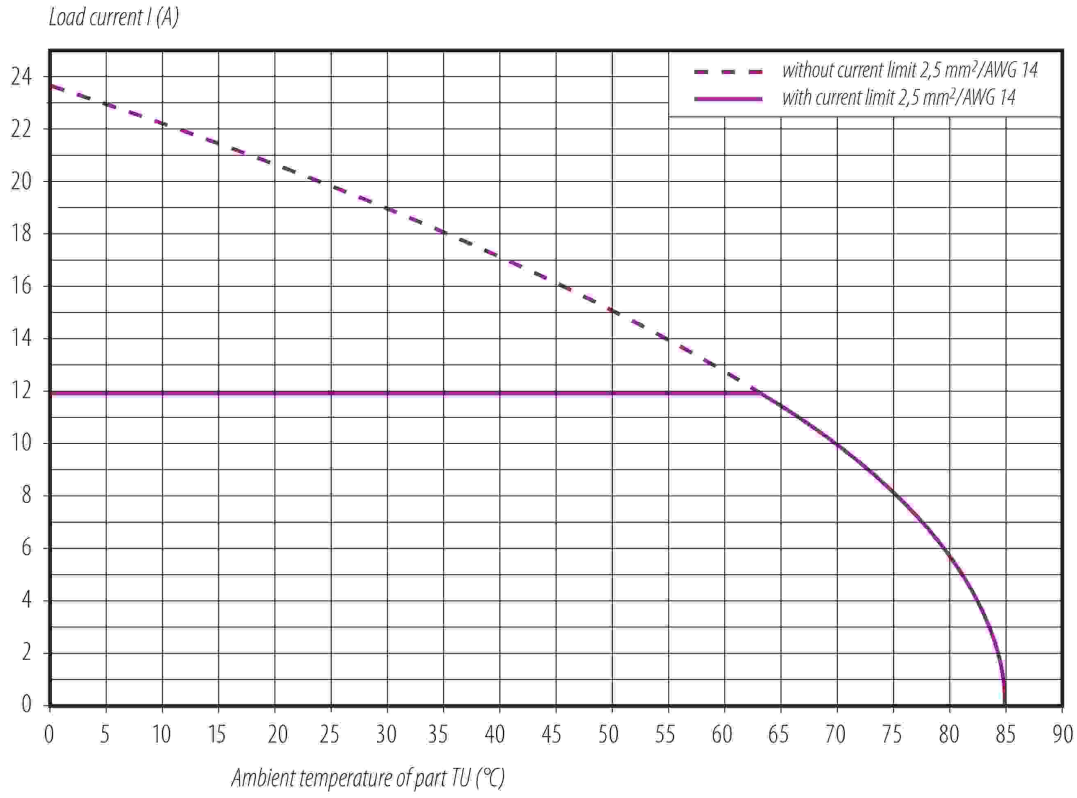


**Product data sheet**

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## Derating curve



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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).

In the case of cable connectors with a metal threaded ring, it is imperative to ensure a connection with the PE protective contact of the appliance connector. Connecting cables between appliance connectors that are not connected to the PE contact are not permitted. The user must ensure a continuous connection of the protective earth conductor.