

Product data sheet

Automation technology - Voltage and Power Supply

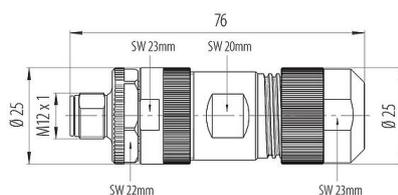


| | |
|---------------------|--|
| Product description | M12 Male cable connector, Contacts: 4+FE, 8.0-13.0 mm, unshielded, screw clamp, IP67, M12x1.0, UL 2237 in preparation, with PE connection |
| Area | M12-L |
| Coding | L-coded |
| Series | 823 |
| Part no. | 99 0639 37 05 |

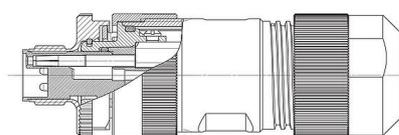
Illustration



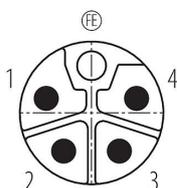
Scale drawing



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

| | |
|---------------------------|---|
| Part no. | 99 0639 37 05 |
| Connector design | Male cable connector |
| Type standard | DIN EN IEC 61076-2-111:2018-10;VDE 0687-76-2-111:2018-10 |
| Coding | L-coded |
| Version | Connector pin straight |
| Connector locking system | screw |
| Termination | screw clamp |
| Degree of protection | IP67 |
| Connection cross-section | max. 1.50 mm ² with ferrule / max. 2.50 mm ² without ferrule / AWG 16 with wire-end ferrule / AWG 14 without wire-end ferrule |
| Cable outlet | 8.0-13.0 mm |
| Temperature range from/to | -40 °C / 105 °C |
| Mechanical operation | > 100 Mating cycles |

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| | |
|-----------------------|----------|
| Weight (g) | 49.07 |
| Customs tariff number | 85369010 |
| Country of Origin | DE |

Electrical parameters

| | |
|---------------------------|---|
| Rated voltage | 63 V |
| Rated impulse voltage | 1500 V |
| Rated current | 12 A (at 1.5 mm ² /AWG 16) / 16 A (at 2.5 mm ² /AWG 14) |
| Insulation resistance | > 10 ¹⁰ Ω |
| Pollution degree | 3 |
| Overvoltage category | III |
| Insulating material group | II |
| EMC compliance | unshielded |

Material

| | |
|-----------------------|--------------------------------------|
| Housing material | PA |
| Contact body material | PA (UL94 V-0) |
| Contact material | CuZn (brass) |
| Contact plating | Au (gold) |
| REACH SVHC | CAS 7439-92-1 (Lead) |
| SCIP number | 5d09d3ef-b836-40b4-8d83-f8fcd0913f08 |

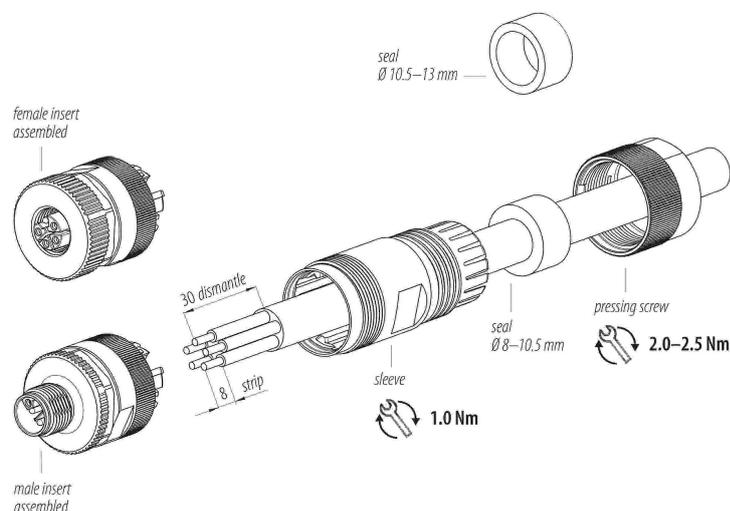
Classifications

| | |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

Assembly instructions

1. Clamp out screws until bores for single wires are completely free.
2. **Attention:** Change pre-mounted sealing ring against the alternative sealing ring when cable diameter is bigger than 10.5 mm.
3. Push sleeve with cable clamp onto the cable.
4. Dismantle cable.
5. Strip single cores and twist single wires.
6. Insert single wires into the holes and tighten clamping screws (0.4 Nm).
7. Screw contact insert onto the sleeve.

Recommendation: Secure contact insert against unintentional unmatting as required and necessary.
8. Screw and tighten pressing screw (2.0–2.5 Nm).



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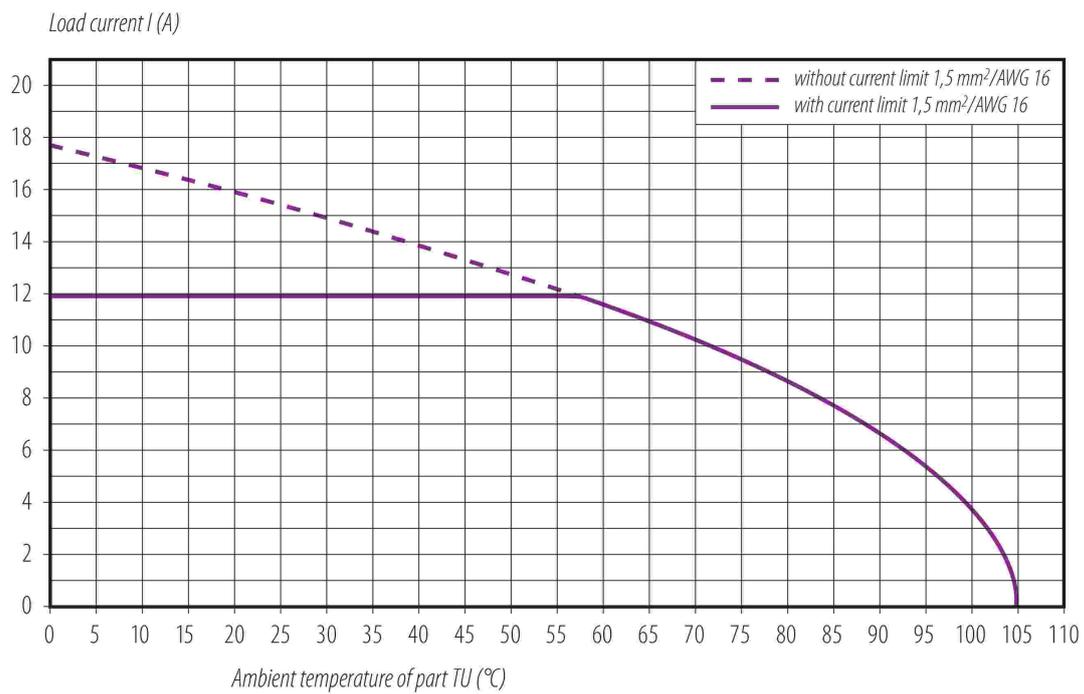
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Derating curve



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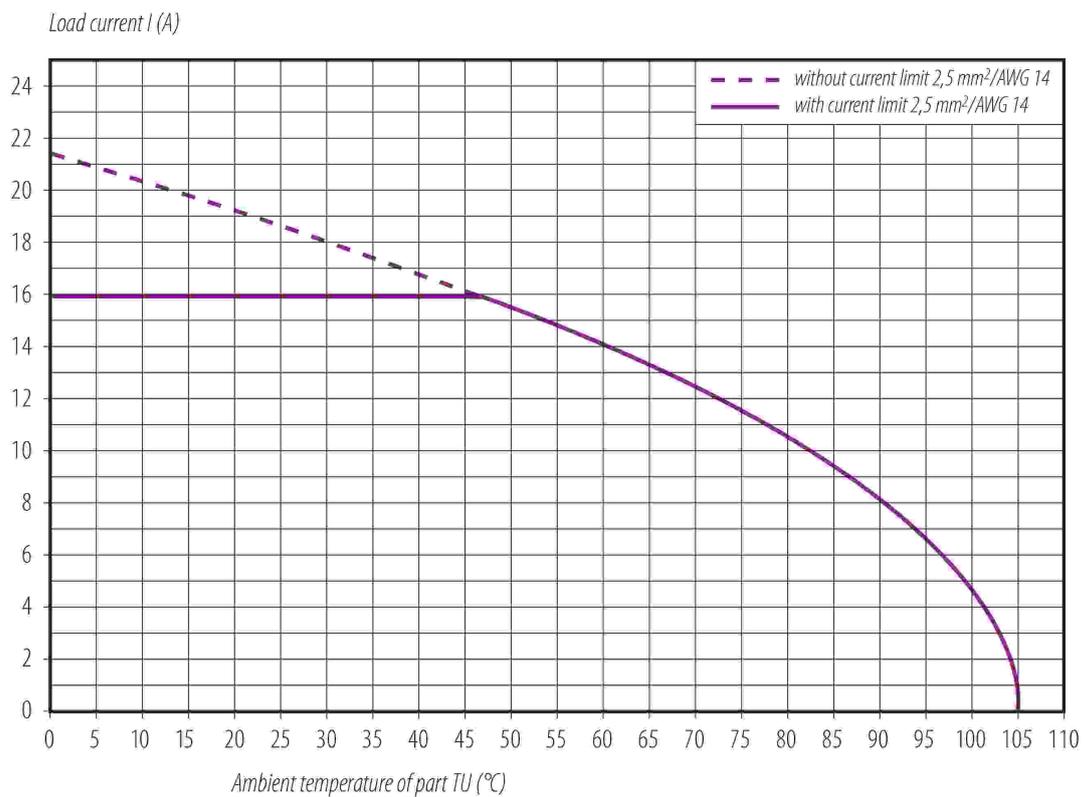
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General Disclaim Notice

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.

To protect against unintentional opening of the connector, the thread between the housing and the connector head must be secured with a suitable cyanoacrylate adhesive when used in circuits with voltages dangerous to the touch. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

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).