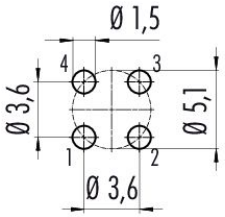
Product data sheet

Automation technology - Voltage and Power Supply

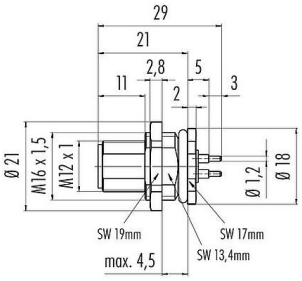
Product description	**M12 Male panel mount connector, Contacts: 4, unshielded, THT, IP68, UL, M16x1.5, Rear Mounting**
Area	**series 813**
Part no.	**86 0639 1000 00044**

Illustration

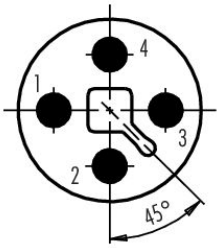
Conductor layout



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	86 0639 1000 00044 Alternative part no.: 09 0631 90 04
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.

Date: 08.05.2025

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Connector design	Male panel mount connector
Type standard	DIN EN IEC 61076-2-111:2018-10;VDE 0687-76-2-111:2018-10
Version	Connector pin straight
Connector locking system	screw
Termination	THT
Degree of protection	IP68
Connection cross-section	max. 1.50 mm² / AWG 16
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	35.00
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	63 V
Rated impulse voltage	1500 V
Rated current	12.0 A
Pollution degree	3
Overvoltage category	III
Insulating material group	II
EMC compliance	unshielded

Material

Contact body material	PA
Contact material	CuZn (brass)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	3c5e4a0c-a805-465e-8394-84076226e6e9
PFAS present	yes

Authorization/approvals

Approvals	UL

Classifications

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

Declarations of conformity

Low Voltage Directive	2014/35/EU (EN 60204-1:2018 | 2011/65/EU;EN 50581:2012 | 2014/35/EU;EN 60529:1991)
RoHS Directive	2011/65/EU (EN 50581:2012)

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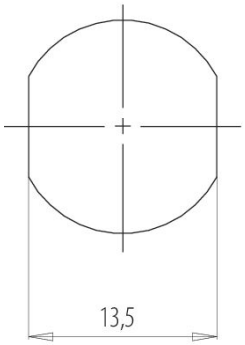
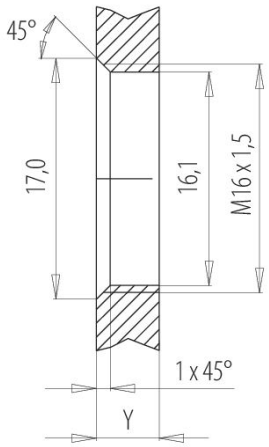
Assembly instructions / Panel cut-out

With flats as anti-rotation device



With bore hole



Installation direction:
o-ring sits on chamfer.

Tightening moment
Metall housing/Plastic housing 1,25 Nm

Thickness of wall **Y** (mm)		
Version	**min** (mm)	**max** (mm)
Fastened from rear	2	3,5
Front fastened	2	4,5
positioning possible [1]	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 [2]	[3]1,5/[4]2	6,5

Notes

[1] Do not attach a chamfer
[2] Wall thickness:
use nut 38 5385 100 001 up to 1,5 mm,
>1,5 mm cut thread
[3] Nut
[4] Thread in wall of housing

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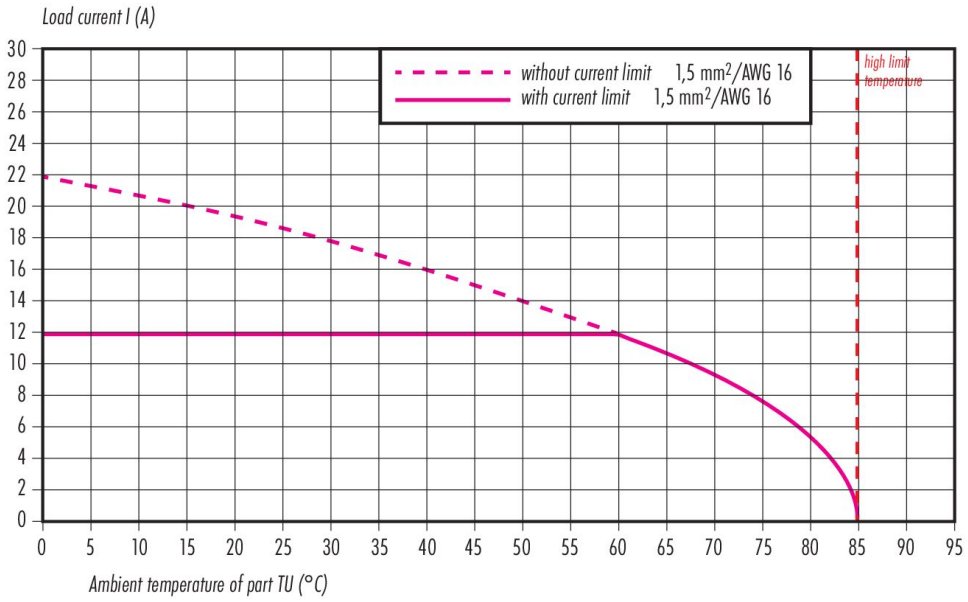
Derating curve



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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).