

Data Sheet | Item Number: 280-990

4-conductor through terminal block; 2.5 mm²; suitable for Ex e II applications; lateral marker slots; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm²; light gray

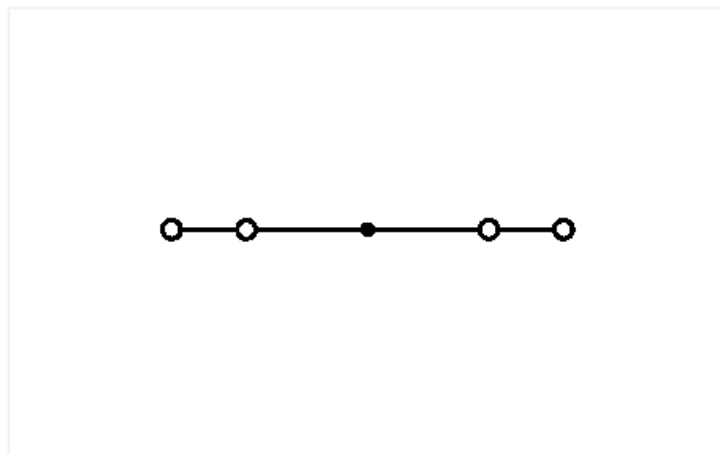


<https://www.wago.com/280-990>



Color:  light gray

Similar to illustration



Similar to illustration

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
-------------	------------------

Ratings per UL 1059

Approvals per	UL 1059
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	20 A

Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	24 A

Ex information

Reference hazardous areas	See application instructions in section "Knowledge and Downloads – Documentation – Additional Information: Technical Section; Technical Explications"
---------------------------	---

Ratings per	ATEX: PTB 99 ATEX 3109 U / IECEx: PTB 03.0004U (Ex eb IIC Gb or Ex eb I Mb)
-------------	---

Rated voltage EN (Ex e II)	550 V
----------------------------	-------

Note (rated voltage)	Using staggered jumpers reduces the maximum rated voltage to 275 V.
----------------------	---

Rated current (Ex e II)	22 A
-------------------------	------

Power loss

Power loss, per pole (potential)	0.6437 W
----------------------------------	----------

Rated current I_N for specified power loss	22 A
--	------

Resistance value for specified, current-dependent power loss	0.00133 Ω
--	------------------

Connection data

Connection points	4
Total number of potentials	1
Number of levels	1

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper Aluminum

Connectable conductor materials (note)

Terminating Aluminum Conductors

WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste [249-130](https://www.wago.com/249-130) is used for termination.

"Alu-Plus" Contact Paste Advantages:

- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.

It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors::

2.5 mm² = 16 A

4 mm² = 22 A

Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Note (conductor cross-section)	12 AWG: THHN, THWN
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Wiring direction	Front-entry wiring

Physical data

Width	5 mm / 0.197 inches
Height	73 mm / 2.874 inches
Depth from upper-edge of DIN-rail	28 mm / 1.102 inches

Mechanical Data

Mounting type	DIN-35 rail
Marking level	Side marking

Material Data

Note (material data)

[Information on material specifications can be found here](#)

Color light gray

Material group I

Insulation material Polyamide (PA66)

Flammability class per UL94 V0

Fire load 0.133 MJ

Weight 8.3 g

Environmental requirements

Processing temperature -35 ... +85 °C

Continuous operating temperature -60 ... +105 °C

Commercial data

Product Group 1 (Rail Mounted Terminal Blocks)

eCl@ss 10.0 27-14-11-20

eCl@ss 9.0 27-14-11-20

ETIM 8.0 EC000897

ETIM 7.0 EC000897

PU (SPU) 100 pcs

Packaging type Box

Country of origin DE

GTIN 4044918391450

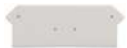
Customs tariff number 85369010000

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate


[Item No.: 280-364](#)

End and intermediate plate; 2.5 mm thick; light gray


[Item No.: 209-191](#)

Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange


[Item No.: 280-365](#)

Separator plate; 2 mm thick; oversized; light gray