

## Data Sheet | Item Number: 288-414

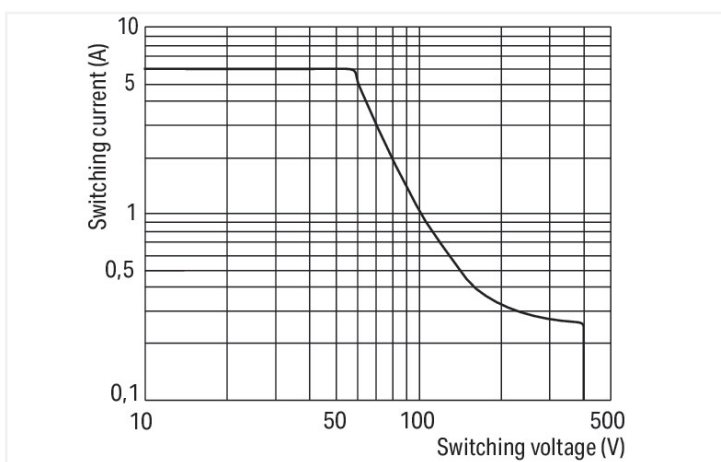
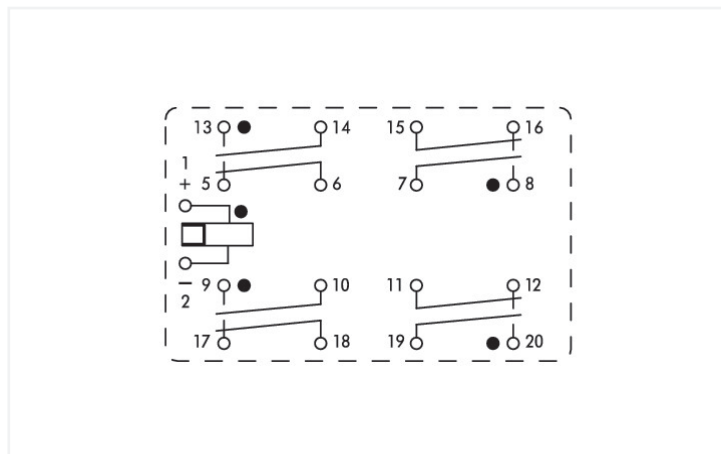
Relay module with driven contacts; Nominal input voltage: 24 V AC/DC; 4 break and 4 make contacts; Limiting continuous current: 6 A; Module width: 64 mm; 2,50 mm<sup>2</sup>; gray

<https://www.wago.com/288-414>



Color: ■ gray

Similar to illustration



DC load limit curve

### Notes

#### Note

If required, a ventilation hole can be made in the cover, reducing the protection type from IP67 to IP30.  
If an outer contact (20) should weld, then the forced operated inner contact (12) driven by the actuator remains open. The rotating armature remains free to move. The unaffected contact pairs can operate normally, (i. e. their function to make or break remains unaffected).  
If an inner contact should weld (12) then the movement of the rotating armature is blocked via the operator. Open contacts of all four contact pairs remain open. This arrangement corresponds to conventional, force-guided operation.

### Technical data

#### Control circuit

Nominal input voltage $U_N$	AC/DC 24 V
Input voltage range	-15 ... +20 %
Nominal input current at $U_N$	26 mA

#### Load circuit

Number of break/switch-off contacts	4
Number of make/switch-on contacts	4
Contact material (relay)	AgSnO <sub>2</sub>
Limiting continuous current	6 A
Inrush current (resistive) max.	(AC) 20 A
Switching voltage (max.)	AC 250 V
Switching power (resistive) max.	AC 1500 VA
Recommended minimum load	10 V / 10 mA
Pull-in time (typ.)	18 ms

### Load circuit

Drop-out time (typ.)	21 ms
Bounce time (typ.)	4 ms
Electrical life (NO; resistive load; 23 °C)	100 x 10 <sup>3</sup> switching operations
Mechanical life	10 x 10 <sup>6</sup> switching operations
Mechanical force-guided operation	Type B

### Safety and protection

Rated voltage	250 V
Rated surge voltage	2.5 kV
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	2 kVrms
Dielectric strength (open contact) (AC, 1 min)	1.3 kVrms
Dielectric strength (load/load circuit) (AC, 1 min)	1.5 kVrms

### Connection data

Connection technology	CAGE CLAMP®
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches

### Physical data

Width	63.5 mm / 2.5 inches
Height	85 mm / 3.346 inches
Depth from upper-edge of DIN-rail	40 mm / 1.575 inches

### Mechanical data

Mounting type	DIN-35 rail
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### Material data

Color	gray
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	1.13 MJ
Weight	147.5 g

### Environmental requirements

Ambient temperature (operation at U <sub>N</sub> )	-40 ... +70 °C
Ambient temperature (storage)	-40 ... +80 °C
Processing temperature	-25 ... +50 °C

**Standards and specifications**

Standards/specifications	EN 60664-1 EN 50205 EN 61810-1 ESTI (SEV): 09.1133 UL 508: E120782 TÜV: 968/EZ 116.02/09
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**Commercial data**

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-37-16-01
eCl@ss 9.0	27-37-16-01
ETIM 8.0	EC001437
ETIM 7.0	EC001437
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454192563
Customs tariff number	85364900990

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates**

**General approvals** **Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungsstelle	TP TC 004/2011	EAC RU C-DE.AM02. B.00122/19

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

**Downloads**

**Environmental Product Compliance**

<b>Compliance Search</b>
Environmental Product Compliance 288-414

**Documentation**

Bid Text			
288-414	19.02.2019	xml 5.37 KB	<a href="#">↓</a>
288-414	20.02.2019	docx 17.40 KB	<a href="#">↓</a>

Instruction Leaflet	
pdf 1246.19 KB	<a href="#">↓</a>

CAD/CAE-Data	
<b>CAD data</b>	<b>CAE data</b>
2D/3D Models 288-414 <a href="#">↓</a>	EPLAN Data Portal 288-414 <a href="#">↓</a>
	WSCAD Universe 288-414 <a href="#">↓</a>
	ZUKEN Portal 288-414 <a href="#">↓</a>

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Marking

##### 1.1.1.1 Marking strip



**Item No.: 709-196**

Marking strips; for laser printer; translucent



**Item No.: 709-177**

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; translucent



**Item No.: 709-178**

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white

#### 1.1.2 Tool

##### 1.1.2.1 Operating tool

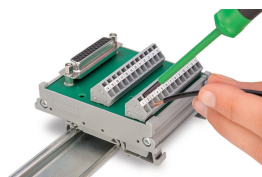


**Item No.: 210-720**

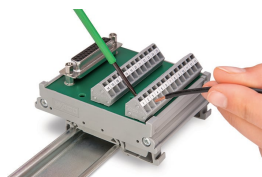
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

## Installation Notes

### Conductor termination

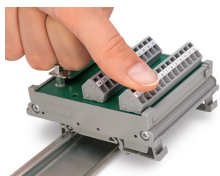


Conductor termination – screwdriver actuation parallel to conductor entry

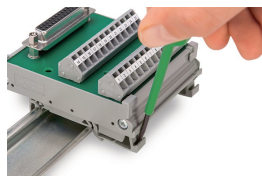


Conductor termination – screwdriver actuation perpendicular to conductor entry

Installation



Snapping a module onto DIN-rail.



Removing a module from the DIN-rail.