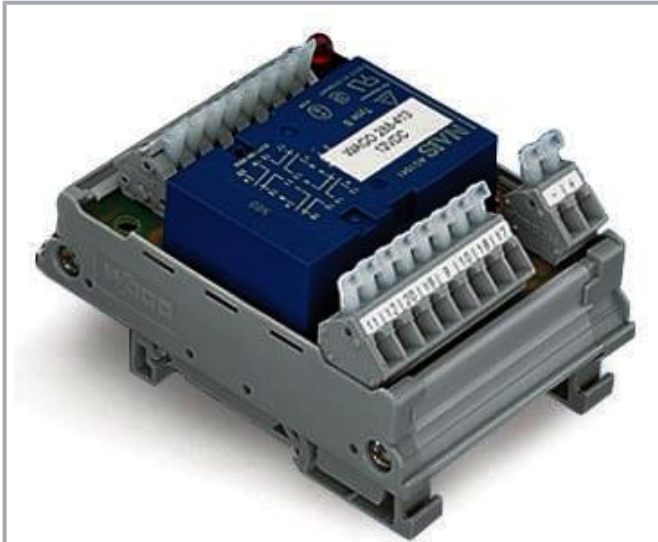


Data sheet | Item number: 288-418

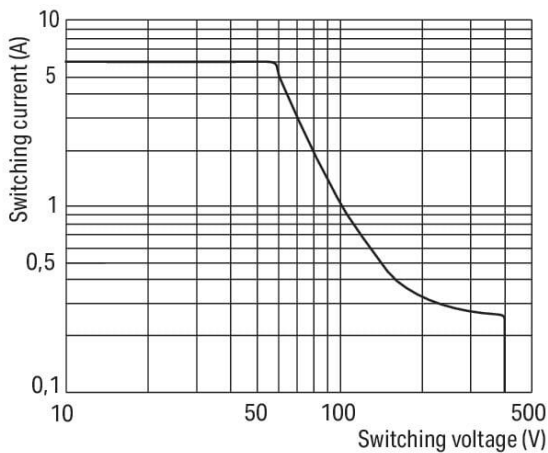
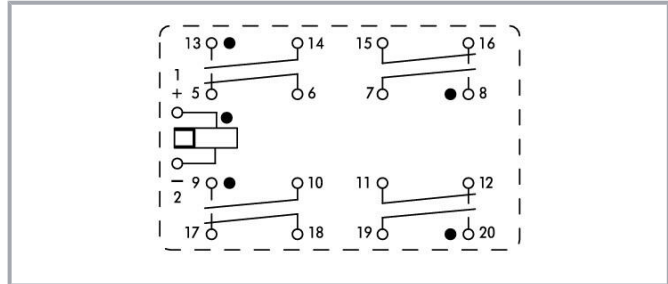
Safety relay module; Nominal input voltage: 230 V AC/DC; 2,50 mm<sup>2</sup>; gray

[www.wago.com/288-418](http://www.wago.com/288-418)



**i** Picture differs from the item.

Color:



DC load limit curve

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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## Data Notes

Note	<p>If required, a ventilation hole can be made in the cover, reducing the protection type from IP67 to IP30.</p> <p>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).</p> <p>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.</p>
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## Technical data

### Control Circuit

Nominal input voltage $U_N$	AC/DC 230 V
Input voltage range	-15 ... +20 %
Nominal input current at $U_N$	14 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
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
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

Subject to changes. Please also observe the further product documentation!

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## Safety and protection

Rated voltage	250 V
Type of circuits	Secondary circuits
Note on insulation parameters	per EN 61010-1
Overvoltage category	II
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	2.5 kVrms
Dielectric strength (open contact) (AC, 1 min)	1.3 kVrms
Dielectric strength (load/load circuit) (AC, 1 min)	2.5 kVrms
Insulation type (control/load circuit)	Basic insulation
Insulation type (open contact)	Functional insulation
Insulation type (load/load circuit)	Basic insulation
Insulation type (adjacent devices)	Reinforced insulation (safe isolation)

## Connection data

Connection technology	CAGE CLAMP®
WAGO connector	WAGO 256 Series
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
Fire load	1.131 MJ
Weight	113.3 g

Subject to changes. Please also observe the further product documentation!

## Environmental requirements

Ambient temperature (operation at $U_N$ )	-40 ... +70 °C
Ambient temperature (storage)	-40 ... +80 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	$\geq (T_{\text{ambient}} + 20 \text{ K})$
Relative humidity	5 ... 85 %
Operating altitude (max.)	2000 m

## 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	4017332160209
Customs tariff number	85364900990

## Environmental Product Compliance


CAS-No.	7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a)

Subject to changes. Please also observe the further product documentation!

	7(c)-I
	7(c)-II
SCIP notification number (Austria)	086f4d14-3dec-4008-b98b-f89741d74a12
SCIP notification number (Belgium)	ad82c66f-d73e-4442-ab0a-d8963f2ffe8c
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SCIP notification number (Sweden)	5c97791f-371e-4c8a-9f81-19bec2967d92



## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011	EAC RU C-DE.AM02.B.00122 /19

## Optional accessories

### Marking accessories

Marking strip			
	<b>Item no.: 709-196</b> Marking strips; for laser printer; translucent		<a href="http://www.wago.com/709-196">www.wago.com/709-196</a>
	<b>Item no.: 709-178</b> Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white		<a href="http://www.wago.com/709-178">www.wago.com/709-178</a>

Subject to changes. Please also observe the further product documentation!



Item no.: 709-177

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

[www.wago.com/709-177](http://www.wago.com/709-177)

**Tool**

Operating tool



Item no.: 210-720

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

[www.wago.com/210-720](http://www.wago.com/210-720)

**Downloads**

**Documentation**

**Bid Text**

288-418 docx - Datei	2019 Feb 20	docx 17.7 kB	Download
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288-418 X81 - Datei	2019 Feb 19	xml 5.5 kB	Download
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**Instruction Leaflet**

pdf 1.3 MB	Download
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**Additional Information**

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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**CAD/CAE-Data**

**CAD data**

2D/3D Models 288-418	URL	Download
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**CAE data**

WSCAD Universe 288-418	URL	Download
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ZUKEN Portal 288-418	URL	Download
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EPLAN Data Portal 288-418	URL	Download
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Subject to changes. Please also observe the further product documentation!

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 288-418

URL

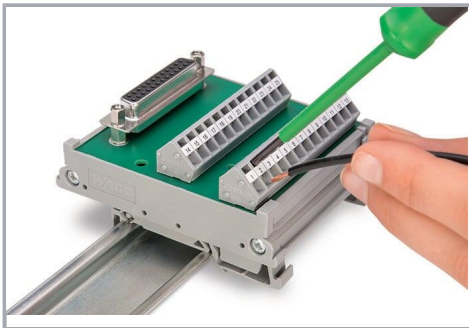
Download

Safety relay module; Nominal input voltage: 230 V AC/DC; 2,50 mm<sup>2</sup>; gray

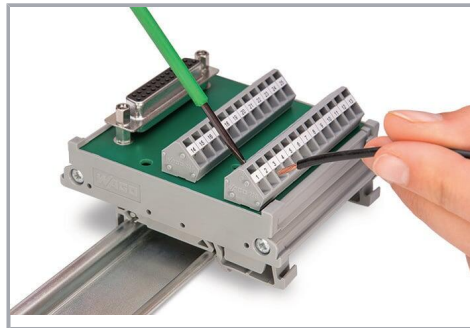
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## Installation Notes

### Conductor termination

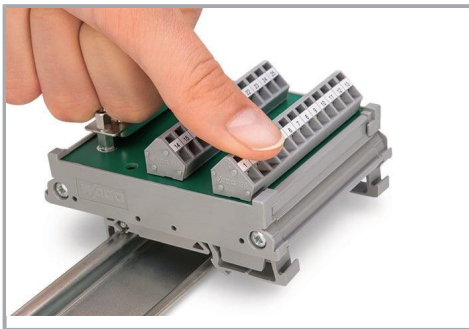


Conductor termination – screwdriver actuation parallel to conductor entry

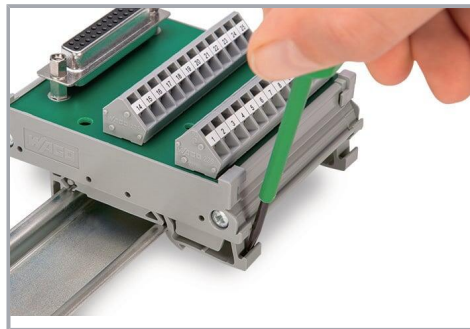


Conductor termination – screwdriver actuation perpendicular to conductor entry

### Installation



Snapping a module onto DIN-rail.



Removing a module from the DIN-rail.

Subject to changes. Please also observe the further product documentation!