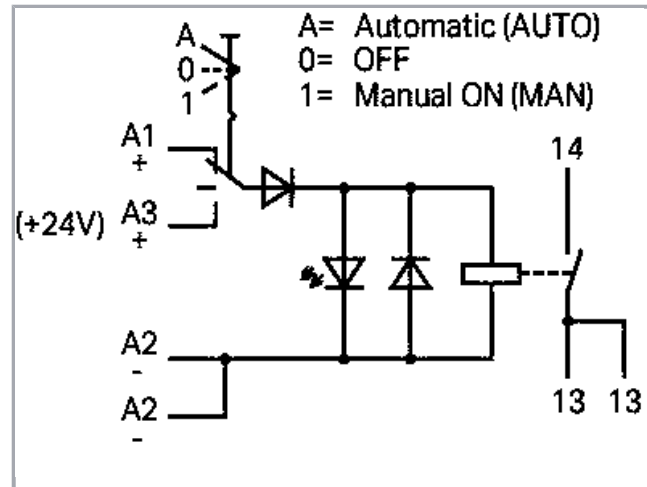


## Data sheet | Item number: 789-323

Relay module; Nominal input voltage: 24 VDC; 1 make contact; Limiting continuous current: 16 A; for lamp loads; Manual/OFF/Auto switch; Red status indicator; Module width: 18 mm; 2,50 mm<sup>2</sup>; gray

[www.wago.com/789-323](http://www.wago.com/789-323)



## Item description

### Short description:

WAGO's 789 Series Switching Relays serve a wide variety of applications, from basic lighting control – homes, hotels and commercial structures – to comprehensive industrial control cabinets. Just 17.5 mm (0.689 inch) wide, the compact DIN-rail-mount enclosure is ideal for distribution boards and meter cabinets.

### Note:

To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

## Data

### Technical Data

### Control circuit

Nominal input voltage  $U_N$

DC 24 V

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

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Input voltage range	-15 ... +20 %
Nominal input current at $U_N$	19 mA
Max. power loss $P_{v \max}$	0,6 W

**Load circuit:**

Number of make contacts/switch on contacts	1
Contact material (relay)	AgSnO <sub>2</sub>
Limiting continuous current	16 A
Max. make current (resistive)	(AC) 120 A / 0,05 s
Max. switching voltage	AC 250 V
Max. switching power (resistive)	AC 4000 VA; DC (see load limit curve)
Recommended minimum load	12 V / 10 mA
Pull-in time (typ.)	15 ms
Drop-out time (typ.)	5 ms
Electrical life (N.O.; resistive load; 23 °C)	100 x 10 <sup>3</sup> switching operations
Mechanical life	10 x 10 <sup>6</sup> switching operations

**Signaling**

Status indication	Red LED
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**Safety and protection:**

Rated voltage	300 V
Overvoltage category	III
Pollution degree	2
Dielectric strength, control/load circuit (AC, 1 min)	4 kVrms
Dielectric strength open contact (AC, 1 min)	1 kVrms
Insulation type (control/load circuit)	Reinforced insulation (safe isolation)
Insulation type (open contact)	Functional insulation
Insulation type (adjacent devices)	Reinforced insulation (safe isolation)
Protection class	IP20

**Connection data**

Connection technology	CAGE CLAMP®
Solid conductor	0,2 ... 2,5 mm <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor	0,2 ... 2,5 mm <sup>2</sup> / 24 ... 14 AWG

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



Strip length	9 ... 10 mm / 0.35 ... 0.39 inch
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## Geometrical Data

Width	17,5 mm / 0.689 inch
Height from upper-edge of DIN-35 rail	55 mm / 2.165 inch
Depth	90 mm / 3.543 inch

## Mechanical data

Type of mounting	DIN-35 rail
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## Material Data

Color	gray
Fire load	5.2 MJ
Weight	54.2 g

## Environmental Requirements

Surrounding air (operating) temperature at $U_N$	-20 ... 40 °C
Surrounding air (storage) temperature	-40 ... 70 °C
Processing temperature	-25 ... +50 °C
Relative humidity	≤ 75% (no condensation permissible)
Max. operating altitude	2000 m

## Standards and specifications

Standards/specifications	EN 60664-1
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## Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	DE
GTIN	4045454550608
Customs Tariff No.	85364900990

## Counterpart

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

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## Compatible products

### Jumper



Item no.: 789-112

Push-in type jumper bar; 12-way; Nominal current 16 A; unplated; silver-colored

[www.wago.com/789-112](http://www.wago.com/789-112)

### Marking accessories



Item no.: 248-504

Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-504](http://www.wago.com/248-504)

### tools



Item no.: 210-720

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

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

### ferrule



Item no.: 216-241

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white[www.wago.com/216-241](http://www.wago.com/216-241)

Item no.: 216-242

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray[www.wago.com/216-242](http://www.wago.com/216-242)

Item no.: 216-243

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red[www.wago.com/216-243](http://www.wago.com/216-243)

Item no.: 216-244

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black[www.wago.com/216-244](http://www.wago.com/216-244)

## Downloads

### Documentation

#### Bid Text

789-323	Feb 19, 2019	xml	Download
GAEB X81 - Datei		4.5 kB	

789-323	Feb 20, 2019	docx	Download
GAEB docx - Datei		17.2 kB	

#### Instruction Leaflet

pdf  
1.3 MB

Download

### Additional Information

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

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## CAD/CAE-Data

### CAE data

EPLAN Data Portal 789-323

URL

Download

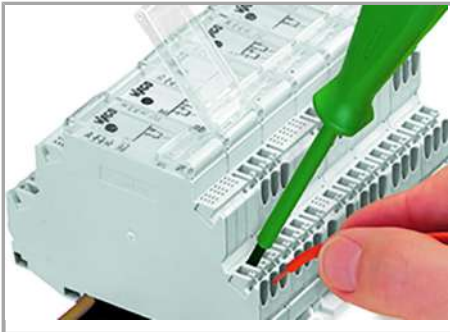
WSCAD Universe 789-323

URL

Download

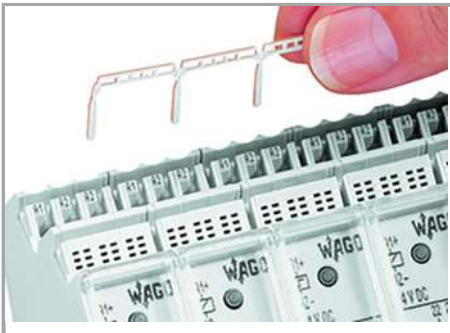
## Installation Notes

### Inserting a conductor



Connection of conductor.

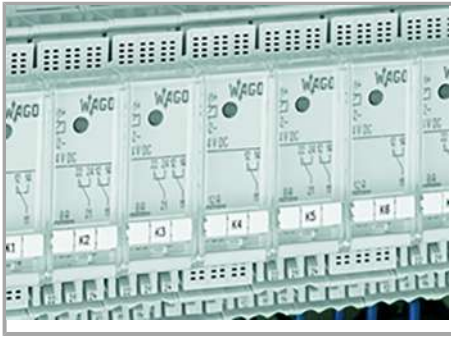
### Jumpered



Easy commoning using adjacent jumpers

### Marking

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



Marking using miniature WSB quick marking card

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

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