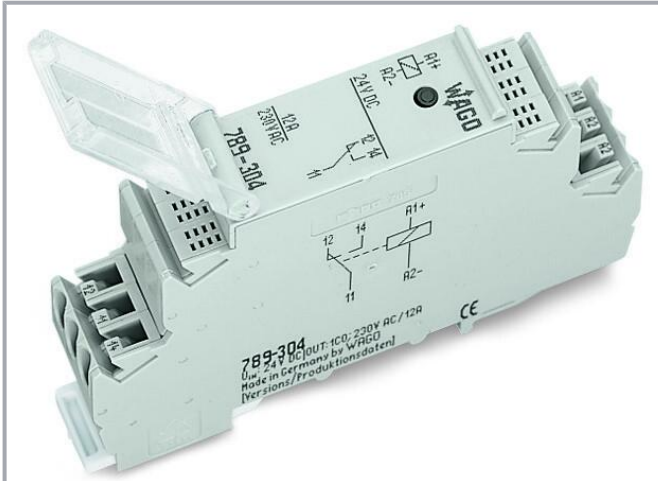


## Data sheet | Item number: 789-520

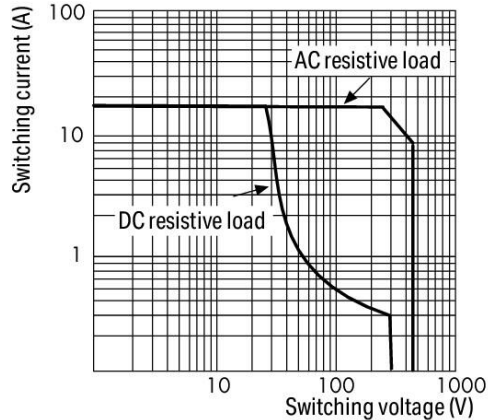
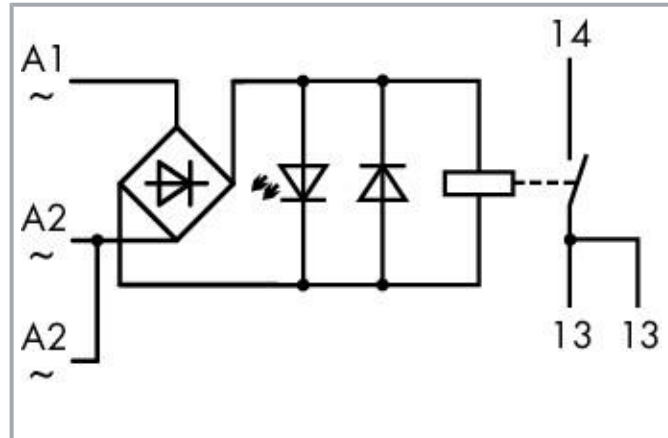
Relay module; Nominal input voltage: 24 VAC; 1 make contact; Limiting continuous current: 16 A; Red status indicator; Module width: 18 mm

[www.wago.com/789-520](http://www.wago.com/789-520)



**i** Picture differs from the item.

Similar to picture



Load limit curve

## Data Notes

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

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

## Technical data

### Control circuit

Nominal input voltage $U_N$	AC/DC 24 V
Input voltage range	-15 ... +20 %
Nominal input current at $U_N$	32 mA

### Load circuit

Number of make/switch-on contacts	1
Contact material (relay)	AgSnO <sub>2</sub>
Limiting continuous current	16 A
Inrush current (resistive) max.	(AC) 120 A / 0.05 s
Switching voltage (max.)	AC 250 V
Switching power (resistive) max.	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
Mechanical life	10 x 10 <sup>6</sup> switching operations

### Signaling

Status indicator	Red LED
------------------	---------

### Safety and protection

Rated voltage	250 V
Rated surge voltage	4 kV
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	4 kVrms
Dielectric strength (open contact) (AC, 1 min)	1 kVrms
Protection type	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 inches
--------------	------------------------------------

### Physical data

Width	17.5 mm / 0.689 inches
Height	90 mm / 3.543 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches

### Mechanical data

Housing design	DIN-rail-mount enclosure
Mounting type	DIN-35 rail

### Material data

Fire load	1.185 MJ
Weight	53.8 g

### Environmental requirements

Ambient temperature (operation at $U_N$ )	-25 ... +40 °C
Ambient temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C

### Standards and specifications

Standards/specifications	EN 60664-1 EN 61810-1
--------------------------	--------------------------

### Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-14-23-09
eCl@ss 9.0	27-14-23-09
ETIM 8.0	EC001437
ETIM 7.0	EC001437
ECCN	NO DATA
PU (SPU)	10 (1) pcs
Packaging type	box
Country of origin	DE
GTIN	4050821421665
Customs tariff number	85364900990


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

## Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a) 7(c)-I
SCIP notification number (Austria)	ef86efe7-d884-4fe7-9221-0433f432a901
SCIP notification number (Belgium)	5224f25b-198e-43da-a61b-e5acb9be3004
SCIP notification number (Bulgaria)	47aed2df-b585-4ce4-903d-c3d61d5d89a3
SCIP notification number (Czech Republic)	7ce815c0-2f5d-456f-98fa-6145f3108005
SCIP notification number (Denmark)	8c82f523-8ae3-4a65-8cad-0a2546955c5a
SCIP notification number (Finland)	ad607583-3388-4eca-8aeb-7af7f87b569e
SCIP notification number (France)	bfae8f04-009b-4e7e-a76e-30c7383b4c19
SCIP notification number (Germany)	29b4779b-ba5e-4b93-a36b-6f10104a979f
SCIP notification number (Hungary)	c891bfe4-8a70-4596-bac3-be76daa69902
SCIP notification number (Italy)	76d611d4-b64b-4974-8793-89f981457c9d
SCIP notification number (Netherlands)	38e42865-ef06-41af-aa86-e4af63779e05
SCIP notification number (Poland)	ac5bce1c-1d4c-4067-b840-fafcbec44f41
SCIP notification number (Romania)	790d29ab-3812-46d6-afd5-7c31dd46db2d
SCIP notification number (Sweden)	02fc672c-0868-4f16-a4be-76712bb2894c



## 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

### Ferrule

Ferrule		
	<b>Item no.: 216-241</b> 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	<a href="http://www.wago.com/216-241">www.wago.com/216-241</a>
	<b>Item no.: 216-242</b>	

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

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)

**Marking accessories**

Marking device



**Item no.: 210-110**

Fiber-tip pen

[www.wago.com/210-110](http://www.wago.com/210-110)

Marker



**Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-145](http://www.wago.com/2009-145)



**Item no.: 248-451**

Mini-WSB marking card; as card; MARKED; K11 - K20 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-451](http://www.wago.com/248-451)



**Item no.: 248-455**

Mini-WSB marking card; as card; MARKED; U 100 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-455](http://www.wago.com/248-455)



**Item no.: 248-450**

Mini-WSB marking card; as card; MARKED; K1 - K10 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-450](http://www.wago.com/248-450)



**Item no.: 248-452**

Mini-WSB marking card; as card; MARKED; K (100x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-452](http://www.wago.com/248-452)



**Item no.: 248-453**

Mini-WSB marking card; as card; MARKED; U1, ... U10 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-453](http://www.wago.com/248-453)



**Item no.: 248-454**

Mini-WSB marking card; as card; MARKED; U11 - U20 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-454](http://www.wago.com/248-454)



**Item no.: 248-566**

Mini-WSB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-566](http://www.wago.com/248-566)



**Item no.: 248-501**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

[www.wago.com/248-501](http://www.wago.com/248-501)



**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)



**Item no.: 248-503**

Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/248-503](http://www.wago.com/248-503)

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

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**Item no.: 248-506**

Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white [www.wago.com/248-506](http://www.wago.com/248-506)



**Item no.: 248-502**

Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white [www.wago.com/248-502](http://www.wago.com/248-502)

**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)

**Jumpers**

Jumper



**Item no.: 789-112**

Jumper; 12-way; silver-colored

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

**Downloads**

**Documentation**

**Bid Text**

789-520 docx - Datei	2019 Feb 20	docx 17.2 kB	Download
789-520 X81 - Datei	2019 Feb 19	xml 4.5 kB	Download

**Instruction Leaflet**

pdf  
1.3 MB  
Download

**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**

**CAE data**

WSCAD Universe 789-520	URL	Download
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ZUKEN Portal 789-520

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

[URL](#) [Download](#)

EPLAN Data Portal 789-520

[URL](#) [Download](#)

### CAD data

2D/3D Models 789-520

[URL](#) [Download](#)

### Asset Administration Shell

Asset Administration Shell 789-520

[URL](#) [Download](#)

## Environmental Product Compliance

### Compliance Search

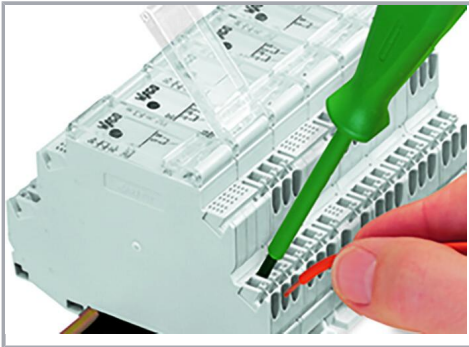
Environmental Product Compliance 789-520

[URL](#) [Download](#)

Relay module; Nominal input voltage: 24 VAC; 1 make contact; Limiting continuous current: 16 A; Red status indicator; Module width: 18 mm

## Installation Notes

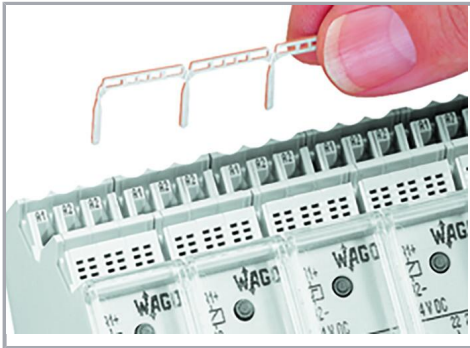
### Conductor termination



Inserting a conductor.

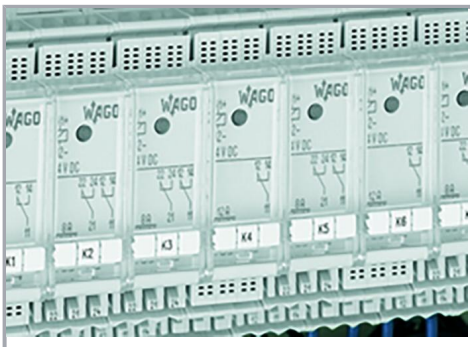
### Commoning

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



Easy commoning via adjacent jumpers.

### Marking



Marking via Mini-WSB Quick Marking System.

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