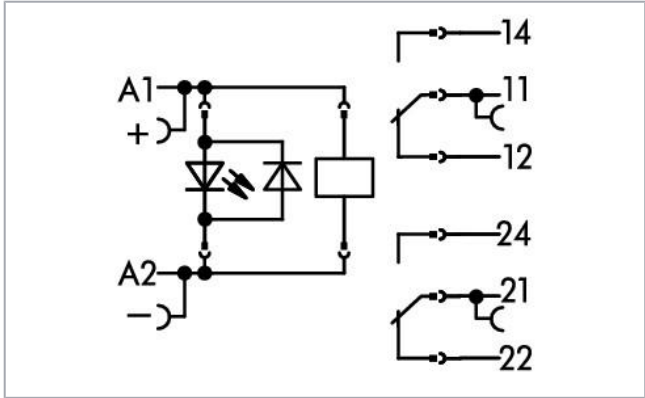
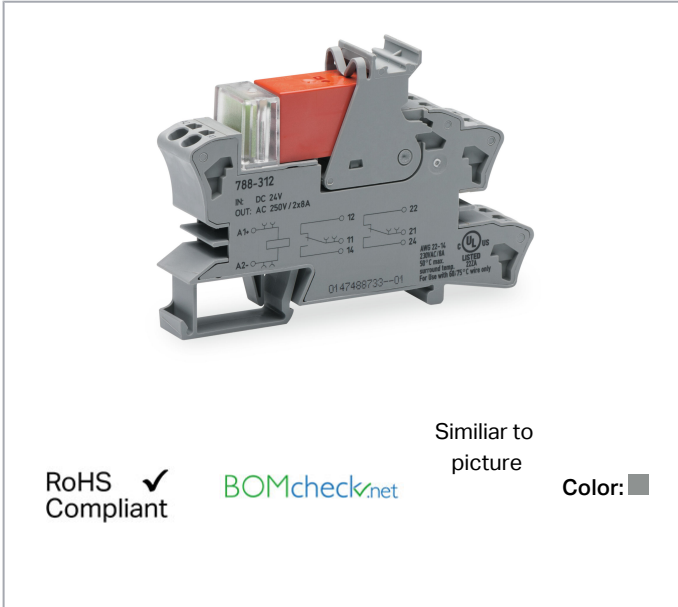


**Data sheet | Item number: 788-312**

Relay module; Nominal input voltage: 24 VDC; 2 changeover contacts;  
 Limiting continuous current: 8 A; Red status indicator; Module width: 15 mm;  
 2,50 mm<sup>2</sup>; gray



[www.wago.com/788-312](http://www.wago.com/788-312)

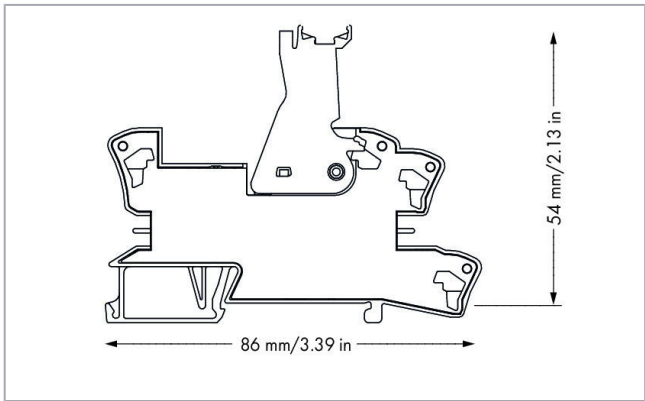
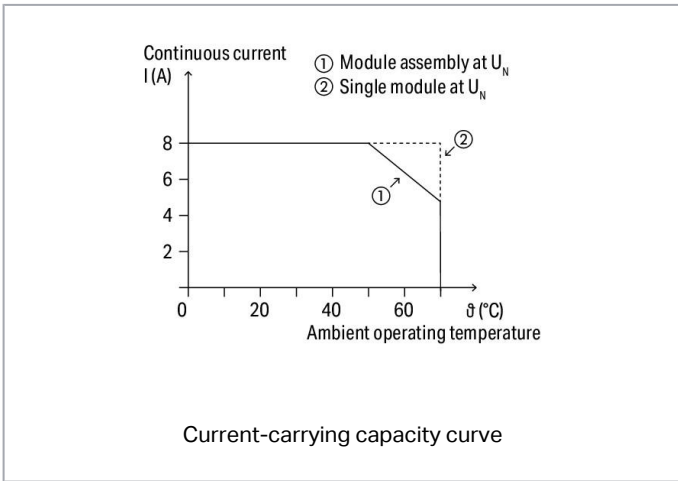


Similar to picture

RoHS Compliant ✓

[BOMcheck.net](http://BOMcheck.net)

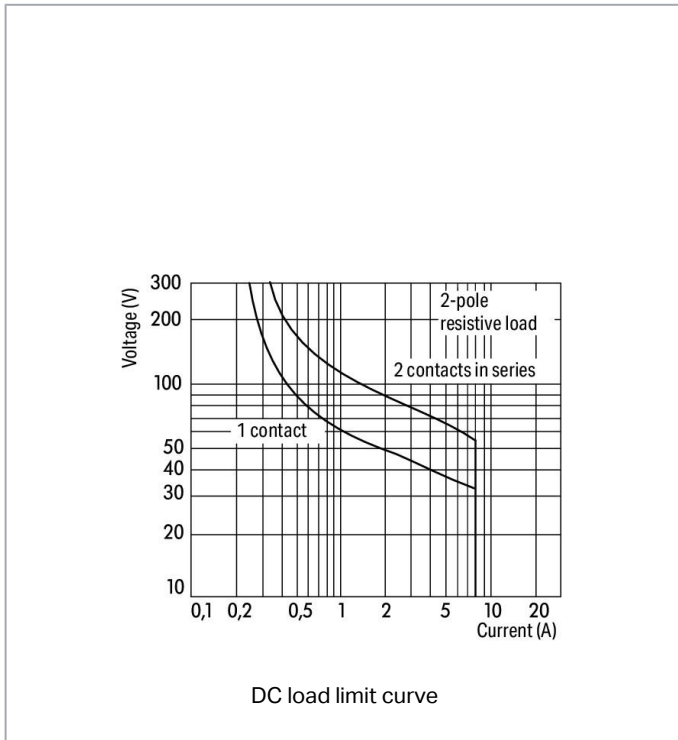
Color: ■



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## Item description

### Note:

- Reinforced insulation between coil and contacts
- A separator plate (e.g., 209-191) must be used for voltages greater than 250 V between adjacent relay modules and for compliance with the reinforced insulation requirements.
- 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
Input voltage range	±10 %
Nominal input current at $U_N$	19 mA

#### Load circuit

Number of changeover/switchover contacts	2
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Subject to changes. Please also observe the further product documentation!



Contact material (relay)	AgNi 90/10
Limiting continuous current	8 A
Inrush current (resistive) (max.)	(AC) 15 A / 4 s
Switching voltage (max.)	AC 250 V
Switching power (resistive) (max.)	AC 2000 VA; DC (see load limit curve)
Switching capacity	AC-15: 3 A / AC 250 V; DC-13: 2 A / DC 24 V
Recommended minimum load	12 V / 10 mA
Pull-in time (typ.)	8 ms
Drop-out time (typ.)	13 ms
Bounce time (typ.)	10 ms
Electrical life (NO; resistive load; 23 °C)	10 x 10 <sup>3</sup> switching operations
Mechanical life	30 x 10 <sup>6</sup> switching operations
Switching frequency with/without load (max.)	6 min <sup>-1</sup> / 1200 min <sup>-1</sup>

## Signaling

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

## Safety and protection

Rated voltage	250 V
Rated surge voltage	4 kV
Pollution degree	3
Dielectric strength, control/load circuit (AC, 1 min)	5 kVrms
Dielectric strength, open contact (AC, 1 min)	1 kVrms
Dielectric strength, load/load circuit (AC, 1 min)	2.5 kVrms
Protection type	IP20

## Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

## Physical data

Width	15 mm / 0.591 inch
Height from upper-edge of DIN-rail	54 mm / 2.126 inch

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Depth	86 mm / 3.386 inch
-------	--------------------

### Mechanical data

Mounting type	DIN-35 rail
---------------	-------------

### Material Data

Color	gray
Fire load	1.345 MJ
Weight	45.5 g

### Environmental Requirements

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

### Standards and specifications

Standards/specifications	EN 61010-2-201; EN 61810-1; EN 61373; UL 508
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### Basic relay


WAGO Basic Relay	788-156
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### Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	CN
GTIN	4055143184137
Customs tariff number	85364900990

### Approvals / Certificates

#### UL-Approvals





Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.6

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





## Counterpart

## Compatible products


### General accessories

	<b>Item no.: 209-145</b> Group marker carrier; white	<a href="http://www.wago.com/209-145">www.wago.com/209-145</a>
	<b>Item no.: 209-184</b> Protection cover; transparent	<a href="http://www.wago.com/209-184">www.wago.com/209-184</a>
	<b>Item no.: 788-120</b> Accessories for relay modules; Operation status indicator: red	<a href="http://www.wago.com/788-120">www.wago.com/788-120</a>
	<b>Item no.: 788-156</b> Basic relay; Nominal input voltage: 24 VDC; 2 changeover contacts; Limiting continuous current: 8 A; Module width: 13 mm; Module height: 15 mm	<a href="http://www.wago.com/788-156">www.wago.com/788-156</a>

















### Jumper

	<b>Item no.: 788-113</b> Jumper; for jumper slot; 2-way; insulated	<a href="http://www.wago.com/788-113">www.wago.com/788-113</a>
	<b>Item no.: 788-114</b> Jumper; for jumper slot; 3-way; insulated	<a href="http://www.wago.com/788-114">www.wago.com/788-114</a>
	<b>Item no.: 788-115</b> Jumper; for jumper slot; 4-way; insulated	<a href="http://www.wago.com/788-115">www.wago.com/788-115</a>
	<b>Item no.: 788-116</b> Jumper; for jumper slot; 6-way; insulated	<a href="http://www.wago.com/788-116">www.wago.com/788-116</a>
	<b>Item no.: 788-117</b> Jumper; for jumper slot; 8-way; insulated	<a href="http://www.wago.com/788-117">www.wago.com/788-117</a>
	<b>Item no.: 788-118</b> Jumper; for jumper slot; from 1 to 3; insulated	<a href="http://www.wago.com/788-118">www.wago.com/788-118</a>
	<b>Item no.: 859-402</b> Jumper; for jumper slot; 2-way; insulated; light gray	<a href="http://www.wago.com/859-402">www.wago.com/859-402</a>

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

	<p><b>Item no.: 216-242</b>                      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</p>	<a href="http://www.wago.com/216-242">www.wago.com/216-242</a>
	<p><b>Item no.: 216-243</b>                      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</p>	<a href="http://www.wago.com/216-243">www.wago.com/216-243</a>
	<p><b>Item no.: 216-244</b>                      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</p>	<a href="http://www.wago.com/216-244">www.wago.com/216-244</a>
	<p><b>Item no.: 216-542</b>                      Twin ferrule; Sleeve for 2 x 1 mm<sup>2</sup> / AWG 2 x 18; red, insulated; 12 mm long; red</p>	<a href="http://www.wago.com/216-542">www.wago.com/216-542</a>
<b>Marking accessories</b>		
	<p><b>Item no.: 2009-110</b>                      Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white</p>	<a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a>
	<p><b>Item no.: 2009-115</b>                      WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white</p>	<a href="http://www.wago.com/2009-115">www.wago.com/2009-115</a>
	<p><b>Item no.: 209-128</b>                      Adaptor; gray</p>	<a href="http://www.wago.com/209-128">www.wago.com/209-128</a>
	<p><b>Item no.: 209-183</b>                      Marker card; white</p>	<a href="http://www.wago.com/209-183">www.wago.com/209-183</a>
	<p><b>Item no.: 210-110</b>                      Fiber-tip pen</p>	<a href="http://www.wago.com/210-110">www.wago.com/210-110</a>
	<p><b>Item no.: 249-105</b>                      Group marker carrier; gray</p>	<a href="http://www.wago.com/249-105">www.wago.com/249-105</a>
	<p><b>Item no.: 793-501</b>                      WMB marking card; as card; not stretchable; plain; snap-on type; white</p>	<a href="http://www.wago.com/793-501">www.wago.com/793-501</a>
	<p><b>Item no.: 793-502</b>                      WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<a href="http://www.wago.com/793-502">www.wago.com/793-502</a>
	<p><b>Item no.: 793-503</b>                      WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<a href="http://www.wago.com/793-503">www.wago.com/793-503</a>
	<p><b>Item no.: 793-504</b>                      WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<a href="http://www.wago.com/793-504">www.wago.com/793-504</a>
	<p><b>Item no.: 793-505</b>                      WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<a href="http://www.wago.com/793-505">www.wago.com/793-505</a>
<b>tools</b>		
	<p><b>Item no.: 210-720</b>                      Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured</p>	<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>

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



## Downloads

### Documentation

#### Bid Text

788-312 GAEB X81 - Datei	Feb 19, 2019	xml 4.7 kB	Download
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788-312 GAEB docx - Datei	Jan 25, 2019	docx 16.8 kB	Download
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#### Instruction Leaflet

Sockets with Elementary Relay/ SSR	V 1.0.1 Oct 9, 2020	pdf 2.3 MB	Download
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#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 788-312	URL	Download
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### CAE data

EPLAN Data Portal 788-312	URL	Download
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WSCAD Universe 788-312	URL	Download
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ZUKEN Portal 788-312	URL	Download
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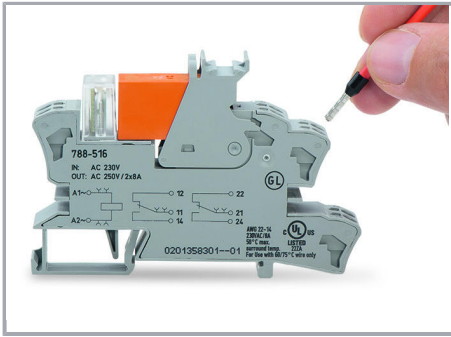
## Installation Notes

### Conductor termination

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

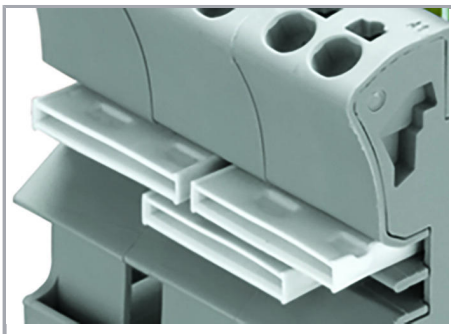
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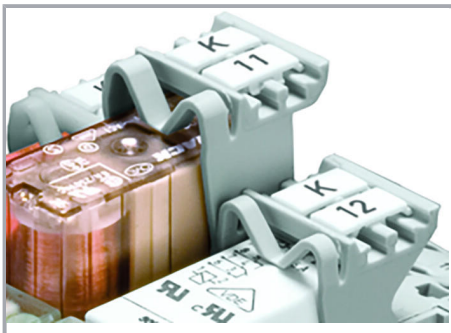
Connection of conductor

### Commoning



Easy commoning using adjacent jumpers

### Marking



Marking using WMB Multi markers and group marker carriers

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