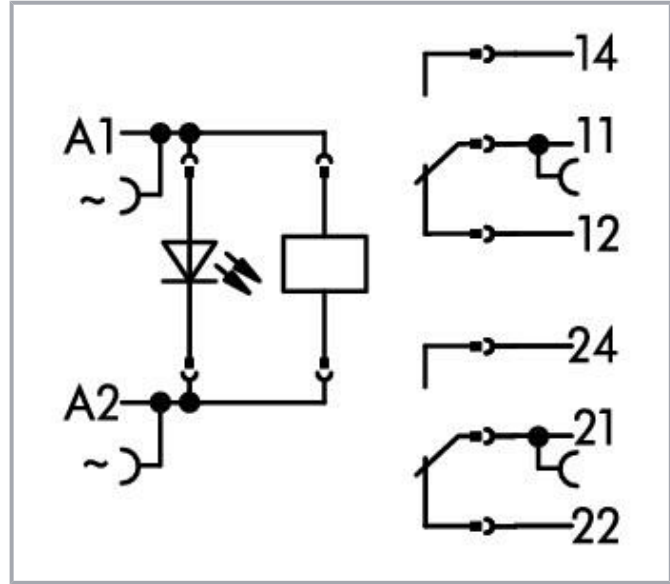
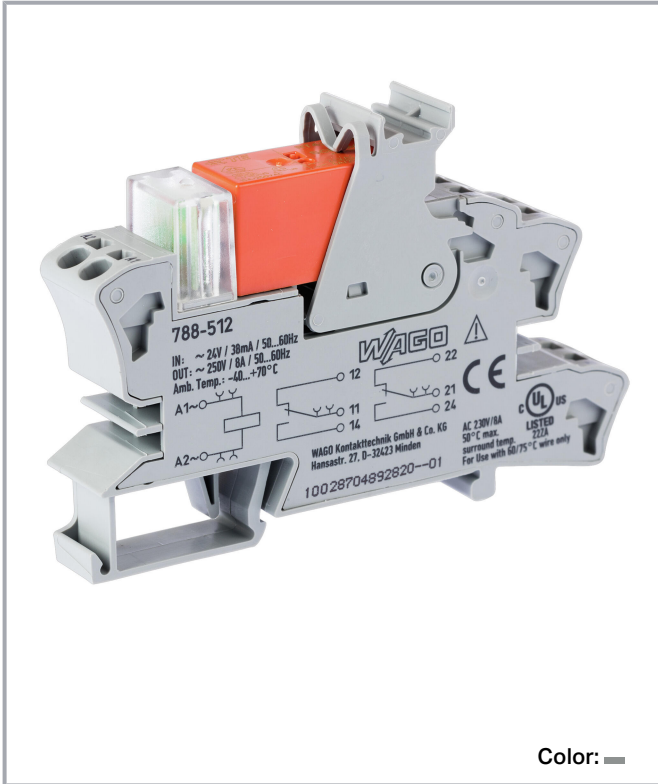


# Data sheet | Item number: 788-512

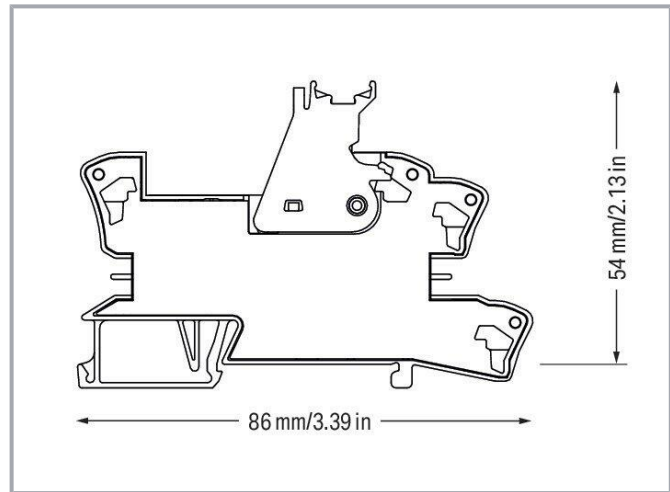
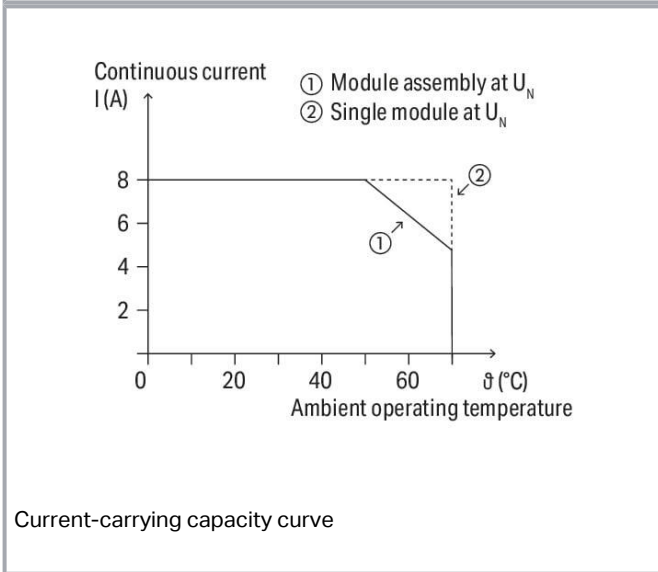
Relay module; Nominal input voltage: 24 VAC; 2 changeover contacts;  
Limiting continuous current: 8 A; Red status indicator; Module width: 15 mm;  
2,50 mm<sup>2</sup>; gray



[www.wago.com/788-512](http://www.wago.com/788-512)



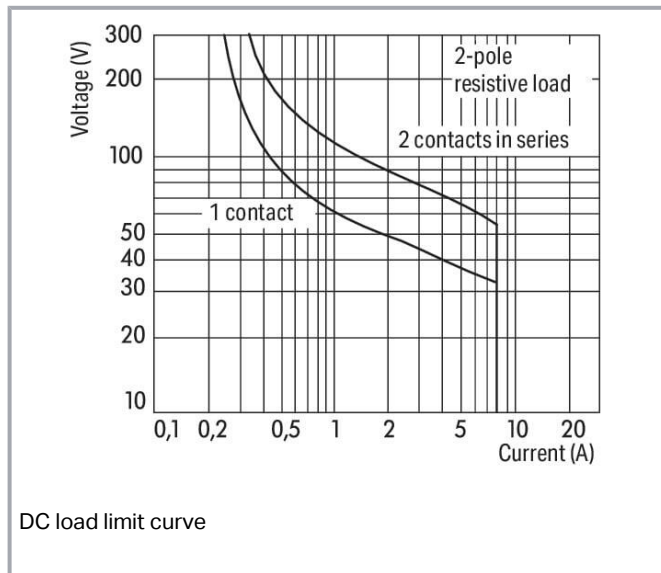
Color:



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

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## Data

### Notes

Safety information

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.

Note

- Reinforced insulation between coil and contacts
- To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

## Technical data

### Control Circuit

|                                |         |
|--------------------------------|---------|
| Nominal input voltage $U_N$    | AC 24 V |
| Input voltage range            | ±10 %   |
| Nominal input current at $U_N$ | 34 mA   |

### Load circuit

|  |            |
|--|------------|
| Number of changeover/switchover contacts | 2          |
| Contact material (relay)                 | AgNi 90/10 |
| Limiting continuous current              | 8 A        |

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

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|  |  |
|--|--|
| 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.)                          | 10 ms  |
| Drop-out time (typ.)                         | 35 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   |
| Safety information                                     | 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. |
| 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 inches           |

## Physical data

|        |                      |
|--------|----------------------|
| Width  | 15 mm / 0.591 inches |
| Height | 86 mm / 3.386 inches |

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



|                                   |                      |
|-----------------------------------|----------------------|
| Depth from upper-edge of DIN-rail | 54 mm / 2.126 inches |
|-----------------------------------|----------------------|

### Mechanical data

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

### Material Data

|           |          |
|-----------|----------|
| Color     | gray     |
| Fire load | 0.898 MJ |
| Weight    | 47.7 g   |

### Environmental requirements

|  |  |
|--|--|
| Ambient temperature (operation at $U_N$ )    | -40 ... +70 °C                             |
| Ambient temperature UL (operation at $U_N$ ) | -40 ... +50 °C                             |
| Ambient temperature (storage)                | -40 ... +70 °C                             |
| Processing temperature                       | -25 ... +50 °C                             |
| Temperature range of connection cable        | $\geq (T_{\text{ambient}} + 20 \text{ K})$ |

### Standards and specifications

|                          |   |
|--------------------------|---|
| Standards/specifications | EN 61010-2-201<br>EN 61810-1<br>EN 61373<br>UL 508<br>DNV |
|--------------------------|---|

### Basic relay

|                  |         |
|------------------|---------|
| WAGO Basic Relay | 788-172 |
|------------------|---------|

### 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                 |
| Recupel Type   |                          |
| PU (SPU)       | 20 (1) pcs               |
| Packaging type | box                      |

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



|                       |               |
|-----------------------|---------------|
| Country of origin     | CN            |
| GTIN                  | 4045454424145 |
| Customs tariff number | 85364900990   |

### Environmental Product Compliance



|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

### Approvals / Certificates


#### General approvals

| Logo   | Approval  | Additional Approval Text | Certificate name            |
|--|---|--------------------------|-----------------------------|
|  | EAC<br>Brjansker Zertifizierungsstelle                    | TP TC 004/2011           | EAC RU C-DE.AM02.B.00122/19 |
|  | UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508                   | E175199 Vol.1 Sec. 6        |

#### Declarations of conformity and manufacturer's declarations

| Logo   | Approval   | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                        | -                |
|  | UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                        | -                |

#### Approvals for marine applications

| Logo   | Approval                      | Additional Approval Text | Certificate name   |
|--|-------------------------------|--------------------------|--------------------|
|  | DNV<br>DNV Germany GmbH       | DNV-CG-0339, Aug. 2021   | TAA00001D1         |
|  | PRS<br>Polski Rejestr Statków | -                        | TE/2186 /880590/18 |

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

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## Optional accessories

### 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)

### Indicators

Status indication



**Item no.: 788-123**

Accessories for relay modules; Operation status indicator: red; Nominal operating voltage: 24 VAC

[www.wago.com/788-123](http://www.wago.com/788-123)

### Ferrule

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)



image coming soon

**Item no.: 216-542**

Twin ferrule; Sleeve for 2 x 1 mm<sup>2</sup> / AWG 2 x 18; red, insulated; 12 mm long; red

[www.wago.com/216-542](http://www.wago.com/216-542)

### Jumpers

Jumper



**Item no.: 788-116**

Jumper; for jumper slot; 6-way; insulated; light gray

[www.wago.com/788-116](http://www.wago.com/788-116)



**Item no.: 788-117**

Jumper; for jumper slot; 8-way; insulated; light gray

[www.wago.com/788-117](http://www.wago.com/788-117)

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

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|  |   |  |
|--|---|--|
|    | <b>Item no.: 788-114</b><br>Jumper; for jumper slot; 3-way; insulated; light gray   | <a href="http://www.wago.com/788-114">www.wago.com/788-114</a>   |
|     | <b>Item no.: 788-113</b><br>Jumper; for jumper slot; 2-way; insulated; light gray   | <a href="http://www.wago.com/788-113">www.wago.com/788-113</a>   |
|    | <b>Item no.: 788-115</b><br>Jumper; for jumper slot; 4-way; insulated; light gray   | <a href="http://www.wago.com/788-115">www.wago.com/788-115</a>   |
|     | <b>Item no.: 859-402</b><br>Jumper; for jumper slot; 2-way; insulated; light gray   | <a href="http://www.wago.com/859-402">www.wago.com/859-402</a>   |
|    | <b>Item no.: 788-118</b><br>Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray  | <a href="http://www.wago.com/788-118">www.wago.com/788-118</a>   |
| <b>Marking accessories</b>   |   |  |
| Marking strip  |   |  |
|    | <b>Item no.: 2009-110</b><br>Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white                    | <a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a> |
| Double marker carrier  |   |  |
|   | <b>Item no.: 209-128</b><br>Adaptor; gray   | <a href="http://www.wago.com/209-128">www.wago.com/209-128</a>   |
| Marking devices  |   |  |
|   | <b>Item no.: 210-110</b><br>Fiber-tip pen   | <a href="http://www.wago.com/210-110">www.wago.com/210-110</a>   |
| Protective marker cover  |   |  |
|  | <b>Item no.: 209-184</b><br>Protection cover; transparent   | <a href="http://www.wago.com/209-184">www.wago.com/209-184</a>   |
| Marker   |   |  |
|  | <b>Item no.: 2009-115</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white     | <a href="http://www.wago.com/2009-115">www.wago.com/2009-115</a> |
|  | <b>Item no.: 209-183</b><br>Marker; white   | <a href="http://www.wago.com/209-183">www.wago.com/209-183</a>   |
|  | <b>Item no.: 793-501</b><br>WMB marking card; as card; not stretchable; plain; snap-on type; white                                      | <a href="http://www.wago.com/793-501">www.wago.com/793-501</a>   |
|   | <b>Item no.: 793-502</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white | <a href="http://www.wago.com/793-502">www.wago.com/793-502</a>   |

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

|  |  |  |
|--|--|--|
|  | <b>Item no.: 793-503</b><br>WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white | <a href="http://www.wago.com/793-503">www.wago.com/793-503</a> |
|  | <b>Item no.: 793-504</b><br>WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white | <a href="http://www.wago.com/793-504">www.wago.com/793-504</a> |
|  | <b>Item no.: 793-505</b><br>WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white | <a href="http://www.wago.com/793-505">www.wago.com/793-505</a> |
| Group marker carrier   |  |  |
|  | <b>Item no.: 209-145</b><br>Group marker carrier; white  | <a href="http://www.wago.com/209-145">www.wago.com/209-145</a> |
|  | <b>Item no.: 249-105</b><br>Group marker carrier; gray   | <a href="http://www.wago.com/249-105">www.wago.com/249-105</a> |
| <b>Filter Module</b>   |  |  |
| Suppressor module  |  |  |
|   | <b>Item no.: 788-148</b><br>Filter module; RC filter element; Nominal voltage: 230 VAC   | <a href="http://www.wago.com/788-148">www.wago.com/788-148</a> |

## Downloads

### Documentation

#### Bid Text

|                         |             |                 |          |
|-------------------------|-------------|-----------------|----------|
| 788-512<br>X81 - Datei  | 19 Feb 2019 | xml<br>4.7 kB   | Download |
| 788-512<br>docx - Datei | 25 Jan 2019 | docx<br>16.8 kB | Download |

#### Instruction Leaflet

|                                    |                       |               |          |
|------------------------------------|-----------------------|---------------|----------|
| Sockets with Elementary Relay/ SSR | V 1.0.1<br>9 Oct 2020 | pdf<br>2.3 MB | Download |
|------------------------------------|-----------------------|---------------|----------|

#### Additional Information

|   |                        |               |          |
|---|------------------------|---------------|----------|
| Disposal and Recycling<br>Electrical and electronic equipment, Batteries, Packaging | V 1.1.0<br>18 Aug 2022 | pdf<br>2.2 MB | Download |
|---|------------------------|---------------|----------|

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



## CAD/CAE-Data

### CAD data

|                      | URL | Download |
|----------------------|-----|----------|
| 2D/3D Models 788-512 |     |          |

### CAE data

|                      |     |          |
|----------------------|-----|----------|
| ZUKEN Portal 788-512 | URL | Download |
|----------------------|-----|----------|

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 788-512 | URL | Download |
|---------------------------|-----|----------|

|                        |     |          |
|------------------------|-----|----------|
| WSCAD Universe 788-512 | URL | Download |
|------------------------|-----|----------|

## Environmental Product Compliance

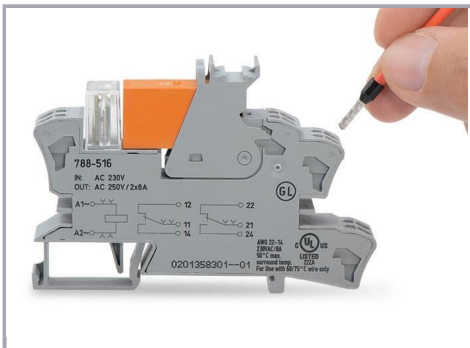
### Compliance Search

|  |     |          |
|--|-----|----------|
| Environmental Product Compliance 788-512 | URL | Download |
|--|-----|----------|

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

## Installation Notes

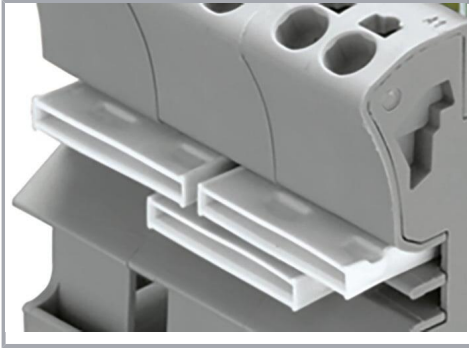
### Conductor termination



### Conductor termination

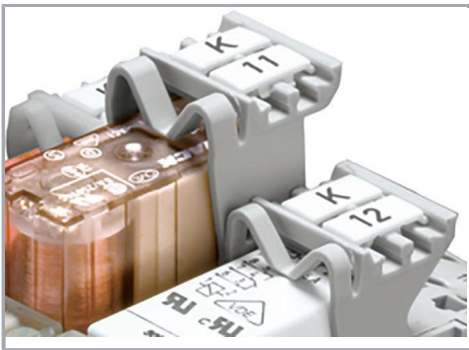
### Commoning

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



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!