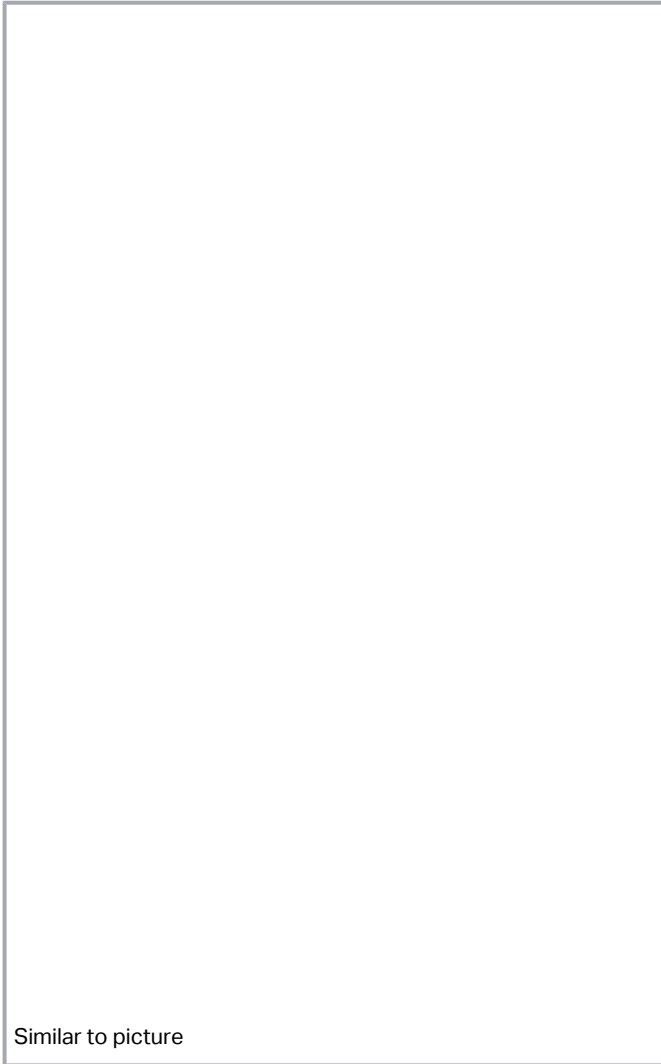


**Data sheet | Item number: 788-341**

Relay module; Nominal input voltage: 24 VDC; 1 changeover contact;  
Limiting continuous current: 16 A; with manual operation; Red status  
indicator; Module width: 15 mm



[www.wago.com/788-341](http://www.wago.com/788-341)

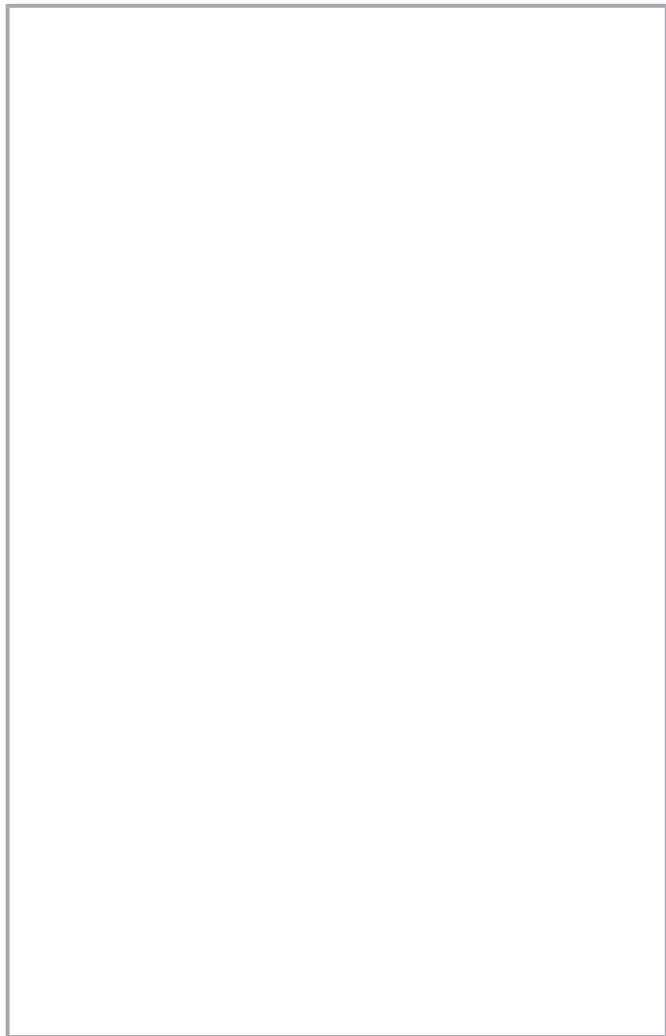
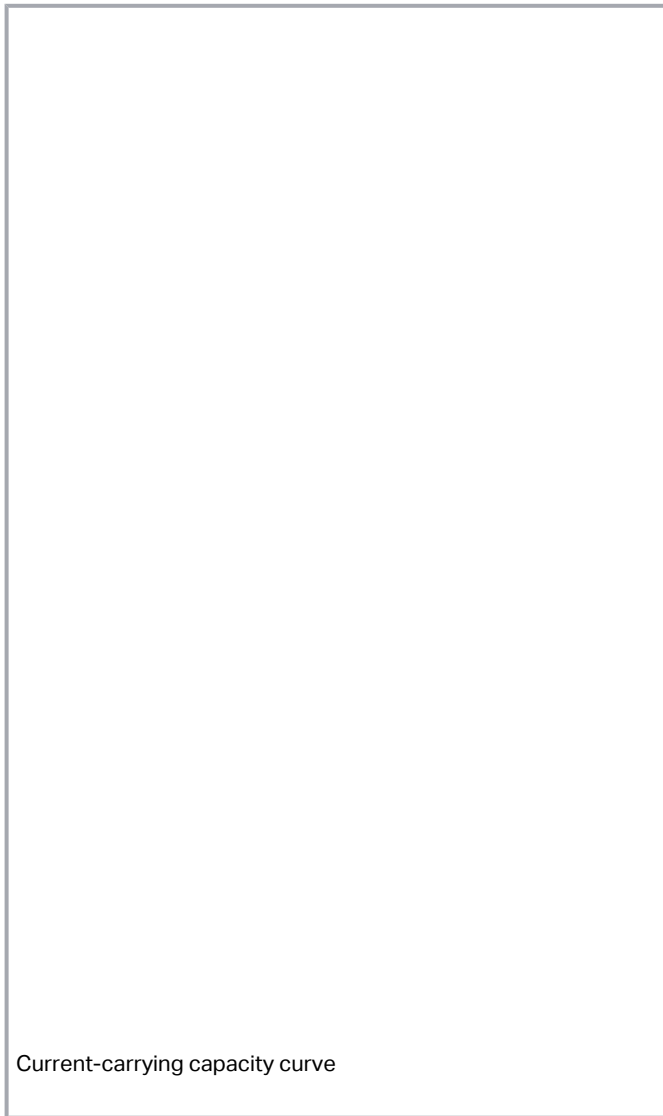


Similar to picture

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.

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## Technical data

### Control Circuit

|                                |            |
|--------------------------------|------------|
| Nominal input voltage $U_N$    | DC 24 V    |
| Input voltage range            | $\pm 10\%$ |
| Nominal input current at $U_N$ | 17 mA      |

### Load circuit

|  |   |
|--|---|
| Number of changeover/switchover contacts     | 1   |
| Contact material (relay)                     | AgNi  |
| Limiting continuous current                  | 16 A  |
| Inrush current (resistive) max.              | (AC) 32 A / 0.02 s; (AC) 24 A / 4 s           |
| Switching voltage (max.)                     | AC 250 V                                      |
| Switching power (resistive) max.             | AC 4000 VA; DC (see load limit curve)         |
| Switching capacity                           | AC-15: 3 A / AC 240 V; DC-13: 2 A / DC 24 V   |
| Recommended minimum load                     | 12 V / 10 mA                                  |
| Pull-in time (typ.)                          | 15 ms   |
| Drop-out time (typ.)                         | 8 ms  |
| Bounce time (typ.)                           | 6 ms  |
| Electrical life (NO; resistive load; 23 °C)  | $10 \times 10^3$ switching operations         |
| Mechanical life                              | $5 \times 10^6$ switching operations          |
| Switching frequency with/without load (max.) | $6 \text{ min}^{-1}$ / $300 \text{ min}^{-1}$ |

### Signaling

|                  |                       |
|------------------|-----------------------|
| Status indicator | Red LED<br>Mechanical |
|------------------|-----------------------|

### 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   |
| 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 |

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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 |
| Depth from upper-edge of DIN-rail | 73 mm / 2.874 inches |

### Mechanical data

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

### Material Data

|           |          |
|-----------|----------|
| Fire load | 0.696 MJ |
| Weight    | 48.4 g   |

### Environmental requirements

|   |                                 |
|---|---------------------------------|
| Ambient temperature (operation at U <sub>N</sub> )    | -40 ... +70 °C                  |
| Ambient temperature UL (operation at U <sub>N</sub> ) | -40 ... +50 °C                  |
| Ambient temperature (storage)                         | -40 ... +70 °C                  |
| Processing temperature                                | -25 ... +50 °C                  |
| Temperature range of connection cable                 | ≥ (T <sub>ambient</sub> + 20 K) |

### Standards and specifications

|                          |  |
|--------------------------|--|
| Standards/specifications | EN 61010-2-201<br>EN 61810-1<br>EN 61373<br>UL 508 (max. 10 A) |
|--------------------------|--|

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



## Basic relay

|                  |         |
|------------------|---------|
| WAGO Basic Relay | 788-931 |
|------------------|---------|

## 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)              | 15 (1) pcs               |
| Packaging type        | box                      |
| Country of origin     | DE                       |
| GTIN                  | 4050821226758            |
| Customs tariff number | 85364900990              |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Logo | Approval   | Additional Approval Text | Certificate name            |
|------|--|--------------------------|-----------------------------|
|      | <b>EAC</b><br>Brjansker Zertifizierungsstelle                    | TP TC 004/2011           | EAC RU C-DE.AM02.B.00122/19 |
|      | <b>UL</b><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 |
|------|---|--------------------------|------------------|
|      | <b>EU-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |

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## Optional accessories

### Tool

#### Operating tool

|  |  |
|--|--|
| <b>Item no.: 210-720</b>   | <a href="http://www.wago.com/210-720">www.wago.com/210-720</a> |
| Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured |  |

### Ferrule

#### Ferrule

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

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

|  |  |
|--|--|
| <b>Item no.: 216-243</b>   | <a href="http://www.wago.com/216-243">www.wago.com/216-243</a> |
| 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 |  |

|  |  |
|--|--|
| <b>Item no.: 216-244</b>   | <a href="http://www.wago.com/216-244">www.wago.com/216-244</a> |
| 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 |  |

|  |  |
|--|--|
| <b>Item no.: 216-542</b>   | <a href="http://www.wago.com/216-542">www.wago.com/216-542</a> |
| Twin ferrule; Sleeve for 2 x 1 mm <sup>2</sup> / AWG 2 x 18; red, insulated; 12 mm long; red |  |

### Jumpers

#### Jumper

|   |  |
|---|--|
| <b>Item no.: 788-116</b>                              | <a href="http://www.wago.com/788-116">www.wago.com/788-116</a> |
| Jumper; for jumper slot; 6-way; insulated; light gray |  |

|   |  |
|---|--|
| <b>Item no.: 788-117</b>                              | <a href="http://www.wago.com/788-117">www.wago.com/788-117</a> |
| Jumper; for jumper slot; 8-way; insulated; light gray |  |

|   |  |
|---|--|
| <b>Item no.: 788-114</b>                              | <a href="http://www.wago.com/788-114">www.wago.com/788-114</a> |
| Jumper; for jumper slot; 3-way; insulated; light gray |  |

|   |  |
|---|--|
| <b>Item no.: 788-113</b>                              | <a href="http://www.wago.com/788-113">www.wago.com/788-113</a> |
| Jumper; for jumper slot; 2-way; insulated; light gray |  |

|   |  |
|---|--|
| <b>Item no.: 788-115</b>                              | <a href="http://www.wago.com/788-115">www.wago.com/788-115</a> |
| Jumper; for jumper slot; 4-way; insulated; light gray |  |

|   |  |
|---|--|
| <b>Item no.: 859-402</b>                              | <a href="http://www.wago.com/859-402">www.wago.com/859-402</a> |
| Jumper; for jumper slot; 2-way; insulated; light gray |  |

|  |  |
|--|--|
| <b>Item no.: 788-118</b>   | <a href="http://www.wago.com/788-118">www.wago.com/788-118</a> |
| Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray |  |

### Marking accessories

#### Marking strip

|   |  |
|---|--|
| <b>Item no.: 2009-110</b>   | <a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a> |
| Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white |  |

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



|  |  |  |
|--|--|--|
| Marking device   |  |  |
| <b>Item no.: 210-110</b><br>Fiber-tip pen  |  | <a href="http://www.wago.com/210-110">www.wago.com/210-110</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>   |
| 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>   |
| <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>   |
| Indicators   |  |  |
| Status indication  |  |  |
| <b>Item no.: 788-120</b><br>Accessories for relay modules; Operation status indicator: red; Nominal operating voltage: 24 VDC            |  | <a href="http://www.wago.com/788-120">www.wago.com/788-120</a>   |

## Downloads

### Documentation

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

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### Bid Text

|                        |              |               |          |
|------------------------|--------------|---------------|----------|
| 788-341<br>X81 - Datei | 2019 年2月19 日 | xml<br>5.1 kB | Download |
|------------------------|--------------|---------------|----------|

|                         |              |                 |          |
|-------------------------|--------------|-----------------|----------|
| 788-341<br>docx - Datei | 2019 年1月25 日 | docx<br>17.3 kB | Download |
|-------------------------|--------------|-----------------|----------|

### Instruction Leaflet

|                                    |                         |               |          |
|------------------------------------|-------------------------|---------------|----------|
| Sockets with Elementary Relay/ SSR | V 1.0.1<br>2020 年10月9 日 | pdf<br>2.3 MB | Download |
|------------------------------------|-------------------------|---------------|----------|

### Additional Information

|   |                         |               |          |
|---|-------------------------|---------------|----------|
| Disposal and Recycling<br>Electrical and electronic equipment, Batteries, Packaging | V 1.1.0<br>2022 年8月18 日 | pdf<br>2.2 MB | Download |
|---|-------------------------|---------------|----------|

### CAD/CAE-Data

#### CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 788-341 | URL | Download |
|----------------------|-----|----------|

#### CAE data

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 788-341 | URL | Download |
|---------------------------|-----|----------|

|                        |     |          |
|------------------------|-----|----------|
| WSCAD Universe 788-341 | URL | Download |
|------------------------|-----|----------|

|                      |     |          |
|----------------------|-----|----------|
| ZUKEN Portal 788-341 | URL | Download |
|----------------------|-----|----------|

### Environmental Product Compliance

#### Compliance Search

|  |     |          |
|--|-----|----------|
| Environmental Product Compliance 788-341<br>Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 16 A; with manual operation; Red status indicator; Module width: 15 mm | URL | Download |
|--|-----|----------|

### Installation Notes

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

**Conductor termination**



Conductor termination

**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!