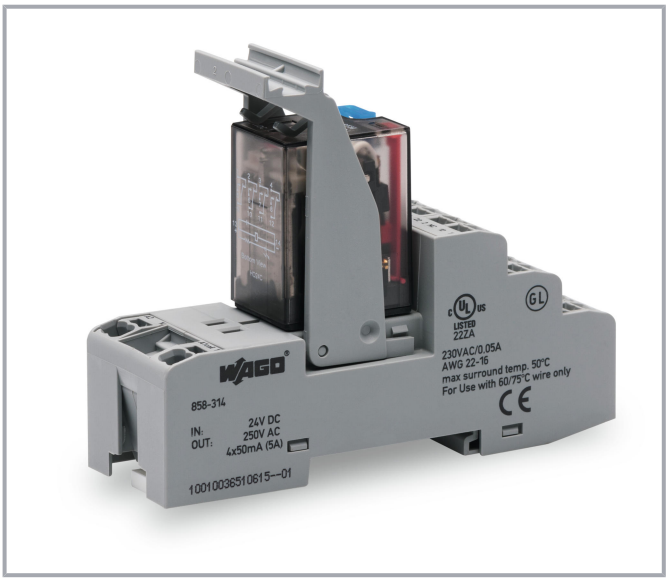
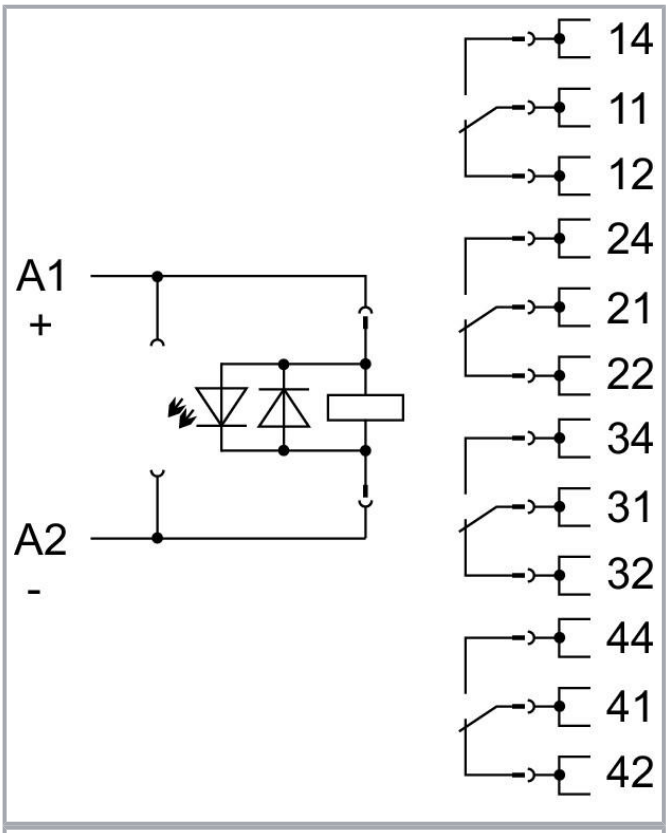
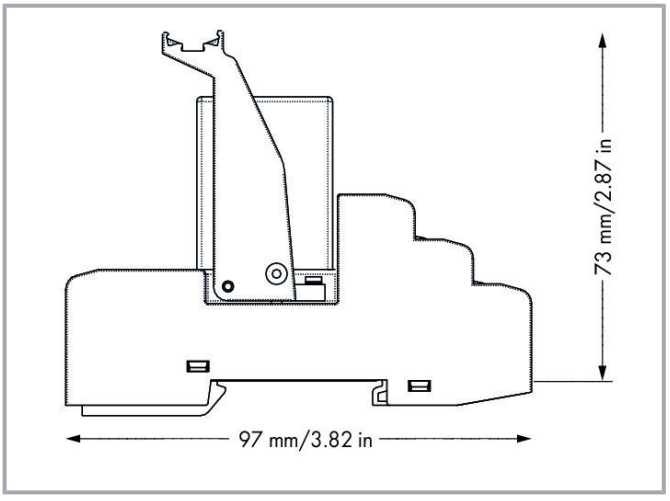
**Data sheet | Item number: 858-314**

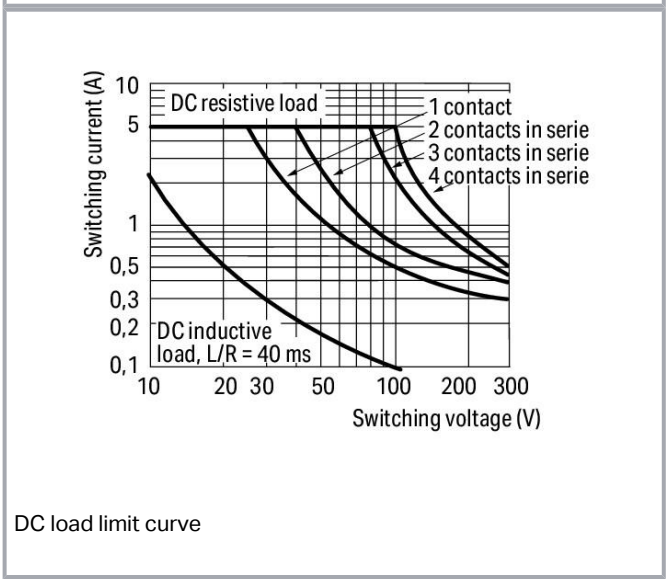
Relay module; Nominal input voltage: 24 VDC; 4 changeover contacts; Limiting continuous current: 5 A; with gold contacts; with manual operation; Red status indicator; Module width: 31 mm; 1,50 mm²

www.wago.com/858-314




DC load limit curve

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


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## Data

### Notes

| | |
|---|---|
| Note | To prevent damaging the gold layer, 30 VDC switching voltages and 50 mA currents must not be exceeded. Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce service life. |

## Technical data

### Control circuit

| | |
|---|---|
| Nominal input voltage $U_N$ | DC 24 V |
| Input voltage range | -20 … +10 % |
| Nominal input current at $U_N$ | 36.9 mA |

### Load circuit

| | |
|---|---|
| Number of changeover/switchover contacts | 4 |
| Contact material (relay) | AgCe + Au |
| Limiting continuous current | 5 A |
| Inrush current (resistive) (max.) | (AC) 15 A / 4 s |
| Switching voltage (max.) | AC 250 V |
| Switching power (resistive) (max.) | AC 1250 VA; DC (see load limit curve) |
| Switching capacity | AC-15: 1 A / AC 240 V; DC-13: 2 A / DC 24 V |
| Recommended minimum load | 5 V / 1 mA / 50 mW |
| Pull-in time (typ.) | 25 ms |
| Drop-out time (typ.) | 25 ms |
| Bounce time (typ.) | 4 ms |
| Electrical life (NO; resistive load; 23 °C) | 100 x $10^3$ switching operations |
| Mechanical life | 20 x $10^6$ switching operations |

### Signaling

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



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## Safety and protection

| | |
|---|---|
| Rated voltage | 300 V |
| Rated surge voltage | 2.5 kV |
| Pollution degree | 2 |
| Dielectric strength, control/load circuit (AC, 1 min) | 1.5 kVrms |
| Dielectric strength, open contact (AC, 1 min) | 1 kVrms |
| Dielectric strength, load/load circuit (AC, 1 min) | 1.5 kVrms |
| Insulation type (control/load circuit) | Basic insulation |
| Insulation type (load/load circuit) | Basic insulation |
| Insulation type (adjacent devices) | Reinforced insulation (safe isolation) |
| Protection type | IP20 |

## Connection data

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Solid conductor | 0.34 … 1.5 mm² / 22 … 16 AWG |
| Fine-stranded conductor | 0.34 … 1.5 mm² / 22 … 16 AWG |
| Strip length | 9 … 10 mm / 0.35 … 0.39 inch |
| Note (conductor cross-section) | 2 x 0.34 … 2 x 1.5 mm² / 1 x 2.5 mm² / 2 x 22 … 2 x 16 AWG |

## Physical data

| | |
|---|---|
| Width | 31 mm / 1.22 inch |
| Height | 97 mm / 3.819 inch |
| Depth from upper edge of DIN-rail | 73 mm / 2.874 inch |

## Mechanical data

| | |
|---|---|
| Mounting type | DIN-35 rail |
| Mounting position | horizontal (standing/lying); vertical |

## Material data

| | |
|---|---|
| Fire load | 1.226 MJ |
| Weight | 97.5 g |

## Environmental requirements

| | |
|---|---|
| Surrounding air temperature (operation at $U_N$) | -25 … 70 °C |
| Surrounding air (operating) temperature for UL | -25 … 50 °C |

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

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| | |
|---|---|
| Surrounding air temperature (storage) | -40 … 70 °C |
| Processing temperature | -25 … +50 °C |
| Relative humidity | 5 … 85 % |
| Operating altitude (max.) | 2000 m |

## Standards and specifications

| | |
|---|---|
| Standards/Specifications | EN 61010-2-201<br>EN 61810-1<br>EN 61373<br>GL<br>UL 508 (max. 50 °C) |

## Basic relay

| | |
|---|---|
| WAGO Basic Relay | 858-152 |

## Commercial data

| | |
|---|---|
| Product Group | 6 (Interface Electronics) |
| PU (SPU) | 5 Stück |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4055143567893 |
| Customs tariff number | 85364900990 |

## Approvals / Certificates

### Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **DNV GL**<br>Det Norske Veritas, Germanischer Lloyd | - | TAA00001D1 |
| | **NK**<br>Nippon Kaiji Kyokai | - | TA17255M |
| | **PRS**<br>Polski Rejestr Statków | - | TE/2186 /880590/18 |

### UL-Approvals

| | | Certificate |
|---|---|---|

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| Logo | Approval | Additional Approval Text | name |
|---|---|---|---|
| | **UL**<br>UL International Netherlands B.V. (ORDINARY LOCATIONS) | UL 508 | E175199<br>Sec.6 |

## Optional accessories

**Ferrule**

Ferrule

| | | |
|---|---|---|
| | **Item no.: 216-241**<br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | www.wago.com/216-241 |
| | **Item no.: 216-242**<br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | www.wago.com/216-242 |
| | **Item no.: 216-243**<br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red | www.wago.com/216-243 |
| | **Item no.: 216-244**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | www.wago.com/216-244 |

**Indicators**

Operation status indicator

| | | |
|---|---|---|
| | **Item no.: 788-120**<br>Accessories for relay modules; Operation status indicator: red; Nominal operating voltage: 24 VDC | www.wago.com/788-120 |

**Jumpers**

Jumper

| | | |
|---|---|---|
| | **Item no.: 858-402**<br>Jumper | www.wago.com/858-402 |

**Mounting**

Socket without relay

| | | |
|---|---|---|
| | **Item no.: 858-110**<br>Mounting bracket | www.wago.com/858-110 |

**Tool**

Operating tool

| | | |
|---|---|---|
| | **Item no.: 210-719**<br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | www.wago.com/210-719 |

**Marking accessories**

Marking strip

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| | | |
|---|---|---|
|  | **Item no.: 2009-110**<br>Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white | www.wago.com/2009-110 |
| Marking device | | |
|  | **Item no.: 210-110**<br>Fiber-tip pen | www.wago.com/210-110 |
| Double marker carrier | | |
|  | **Item no.: 209-128**<br>Adaptor; gray | www.wago.com/209-128 |
| Protective marker cover | | |
|  | **Item no.: 209-184**<br>Protection cover; transparent | www.wago.com/209-184 |
| Marker | | |
|  | **Item no.: 2009-115**<br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white | www.wago.com/2009-115 |
|  | **Item no.: 209-183**<br>Marker card; white | www.wago.com/209-183 |
|  | **Item no.: 793-501**<br>WMB marking card; as card; not stretchable; plain; snap-on type; white | www.wago.com/793-501 |
|  | **Item no.: 793-502**<br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/793-502 |
|  | **Item no.: 793-503**<br>WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/793-503 |
|  | **Item no.: 793-504**<br>WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/793-504 |
|  | **Item no.: 793-505**<br>WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/793-505 |
|  | **Item no.: 793-506**<br>WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/793-506 |
|  | **Item no.: 793-566**<br>WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/793-566 |
|  | **Item no.: 793-5501**<br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white | www.wago.com/793-5501 |

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

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Group marker carrier

| | | |
|---|---|---|
|  | Item no.: 209-145<br>Group marker carrier; white | www.wago.com/209-145 |
|  | Item no.: 249-105<br>Group marker carrier; gray | www.wago.com/249-105 |

## Downloads

### Documentation

#### Bid Text

| | | | |
|---|---|---|---|
| 858-314<br>docx - Datei | 2019. 2. 20. | docx<br>17.5 kB | Download |
| 858-314<br>X81 - Datei | 2019. 2. 19. | xml<br>5.2 kB | Download |

#### Instruction Leaflet

| | | | |
|---|---|---|---|
| Stecksockel für Elementarrelais | | pdf<br>2.6 MB | Download |

#### Additional Information

| | | | |
|---|---|---|---|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |

## CAD/CAE-Data

#### CAD data

| | | |
|---|---|---|
| 2D/3D Models 858-314 | URL | Download |

#### CAE data

| | | |
|---|---|---|
| EPLAN Data Portal 858-314 | URL | Download |
| ZUKEN Portal 858-314 | URL | Download |
| WSCAD Universe 858-314 | URL | Download |

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## Environmental Product Compliance

### Compliance Search

| | | |
|---|---|---|
| Environmental Product Compliance 858-314<br>Relay module; Nominal input voltage: 24 VDC; 4 changeover contacts; Limiting continuous current: 5 A; with gold contacts; with manual operation; Red status indicator; Module width: 31 mm; 1,50 mm² | URL | Download |

## Installation Notes

### Commoning





Removing a jumper via screwdriver.

### Marking



Marking using WMB Multi markers and group marker carriers.



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