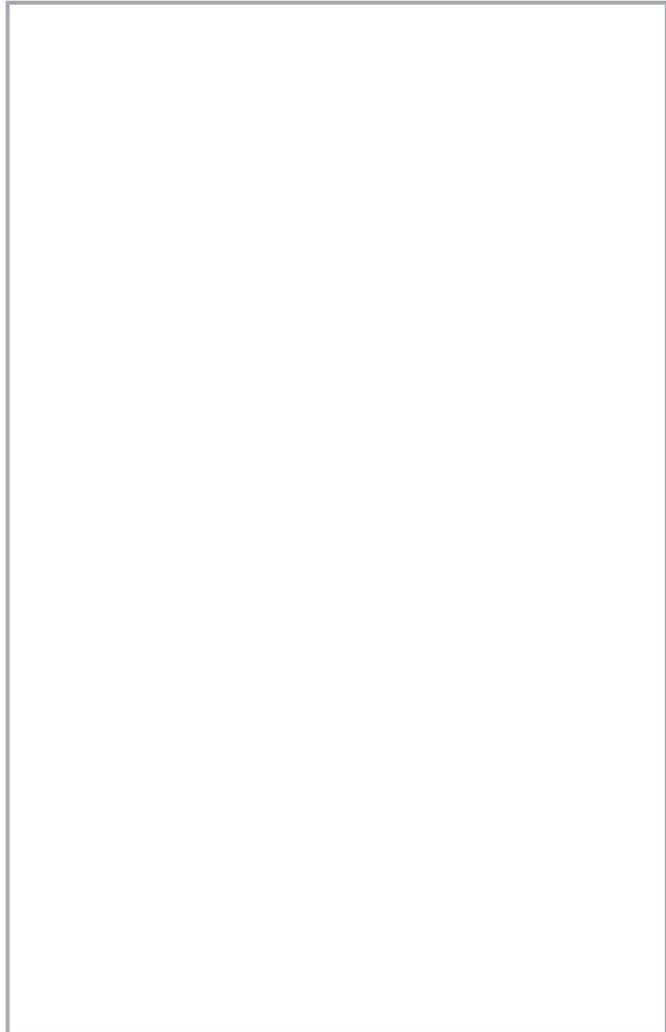
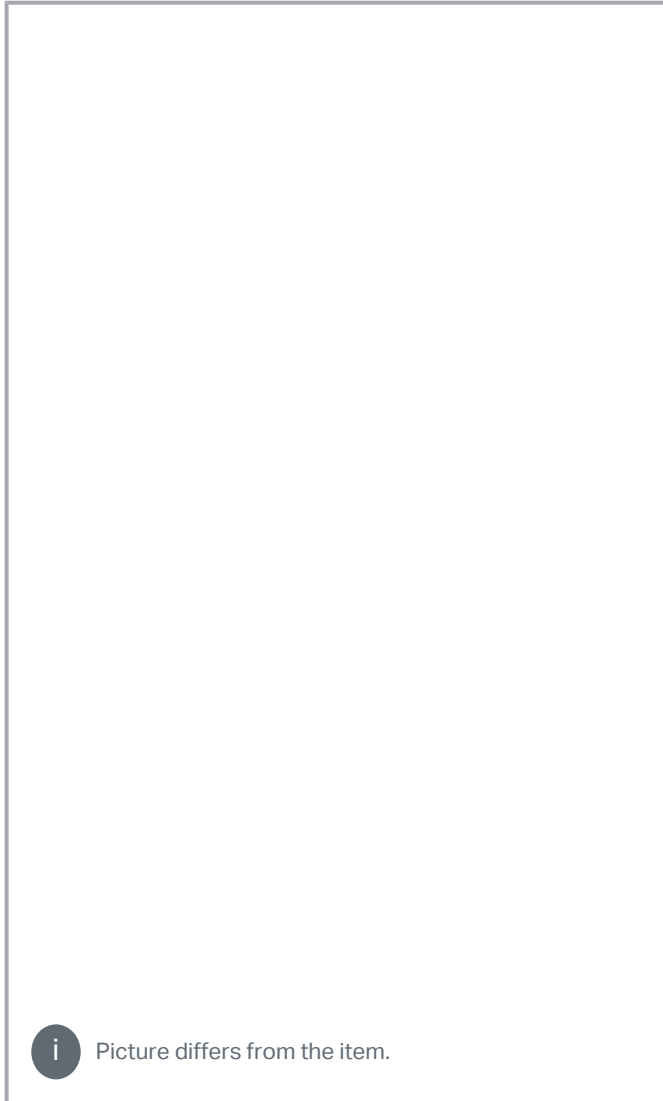


**Data sheet | Item number: 858-303**

Relay module; Nominal input voltage: 12 VDC; 4 changeover contacts;  
Limiting continuous current: 5 A; with manual operation; Red status indicator;  
Module width: 31 mm



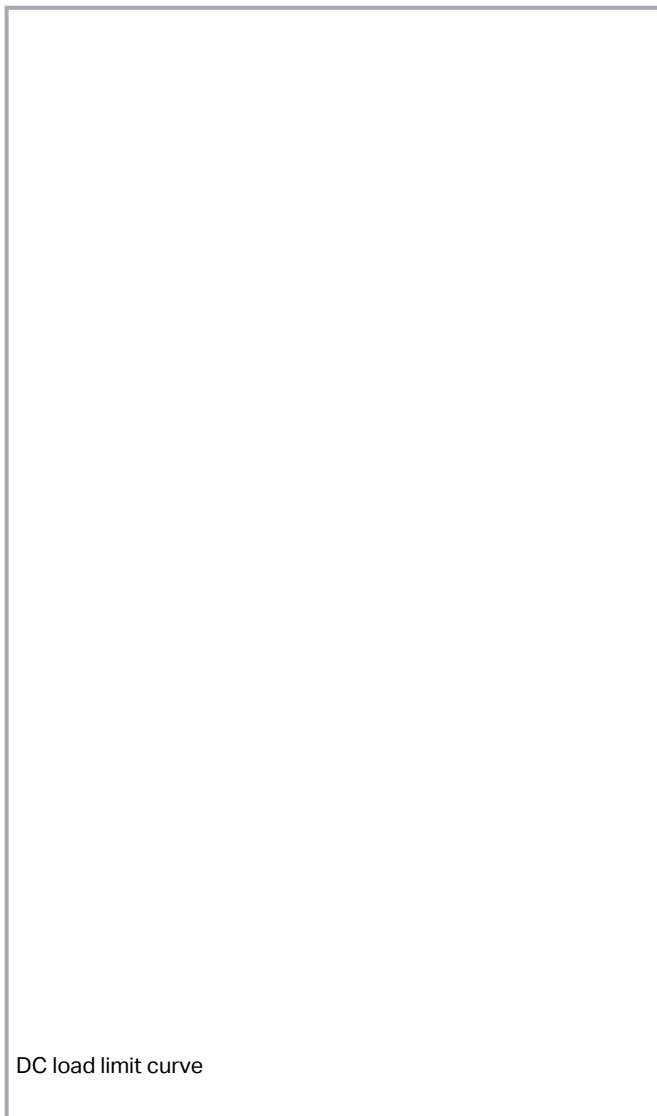
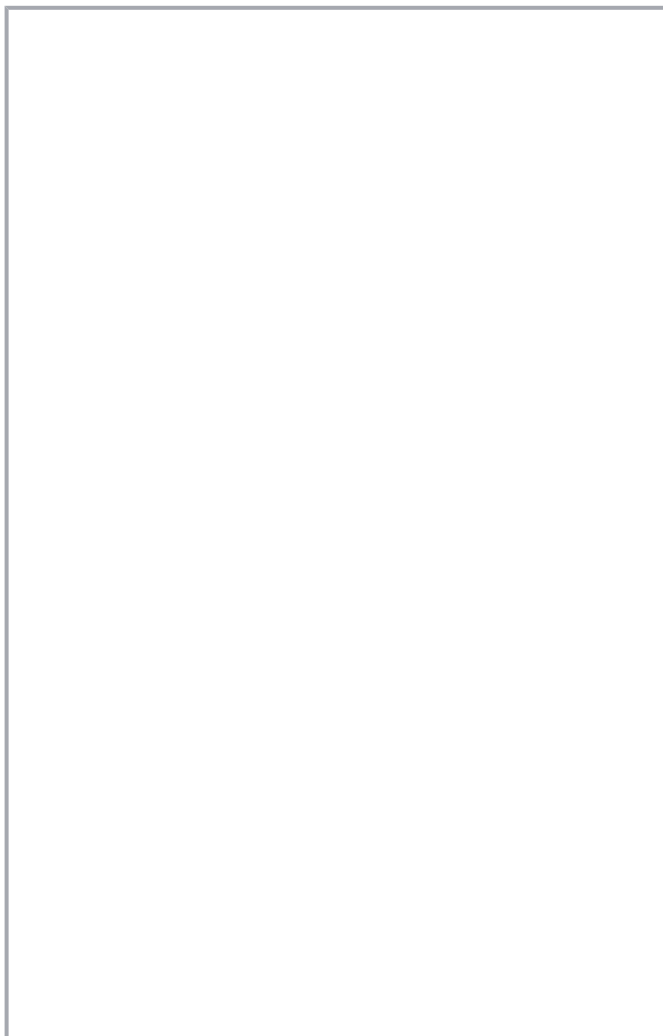
[www.wago.com/858-303](http://www.wago.com/858-303)



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

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## Data

### Technical data

### Control Circuit

|                                |               |
|--------------------------------|---------------|
| Nominal input voltage $U_N$    | DC 12 V       |
| Input voltage range            | -20 ... +10 % |
| Nominal input current at $U_N$ | 75 mA         |

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

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## Load circuit

|   |   |
|---|---|
| Number of changeover/switchover contacts    | 4   |
| Contact material (relay)                    | AgCe  |
| 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                    | 12 V / 100 mA                               |
| 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 <sup>3</sup> switching operations  |
| Mechanical life                             | 20 x 10 <sup>6</sup> switching operations   |

## Signaling

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

## Safety and protection

|  |  |
|--|--|
| Rated voltage  | 300 V                                  |
| Rated surge voltage                                    | 2.5 kV                                 |
| Overvoltage category                                   | II                                     |
| 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 (open contact)                         | Functional 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 mm <sup>2</sup> / 22 ... 16 AWG |

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



|                                |  |
|--------------------------------|--|
| Fine-stranded conductor        | 0.34 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG   |
| Strip length                   | 9 ... 10 mm / 0.35 ... 0.39 inches   |
| Note (conductor cross-section) | 2 x 0.34 ... 2 x 1.5 mm <sup>2</sup> / 1 x 2.5 mm <sup>2</sup> / 2 x 22 ... 2 x 16 AWG |

### Physical data

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

### Mechanical data

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

### Material Data

|           |          |
|-----------|----------|
| Fire load | 1.255 MJ |
| Weight    | 99.5 g   |

### Environmental requirements

|   |                                 |
|---|---------------------------------|
| Ambient temperature (operation at U <sub>N</sub> )    | -25 ... +70 °C                  |
| Ambient temperature UL (operation at U <sub>N</sub> ) | -25 ... 50 °C                   |
| Ambient temperature (storage)                         | -40 ... +70 °C                  |
| Processing temperature                                | -25 ... +50 °C                  |
| Temperature range of connection cable                 | ≥ (T <sub>ambient</sub> + 25 K) |
| 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>UL 508 (max. 50 °C) |
|--------------------------|---|

### Basic relay

|                  |         |
|------------------|---------|
| WAGO Basic Relay | 858-164 |
|------------------|---------|

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



## 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)              | 5 pcs                    |
| Packaging type        | box                      |
| Country of origin     | DE                       |
| GTIN                  | 4055143568326            |
| 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 |

### 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 | -                        | -                |
|      | <b>UK-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |

## Optional accessories

### Basic Relay

|  |  |  |
|--|--|--|
| Basic relay                                |  |  |
| <b>Item no.: 858-164</b>                   |  | <a href="http://www.wago.com/858-164">www.wago.com/858-164</a> |
| Basic relay; Nominal input voltage: 12 VDC |  |  |

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



## Tool

## Operating tool

**Item no.: 210-719**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

[www.wago.com/210-719](http://www.wago.com/210-719)

## Marking accessories

## Marking strip

**Item no.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

[www.wago.com/2009-110](http://www.wago.com/2009-110)

## Marking device

**Item no.: 210-110**

Fiber-tip pen

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

## Double marker carrier

**Item no.: 209-128**

Adaptor; gray

[www.wago.com/209-128](http://www.wago.com/209-128)

## Protective marker cover

**Item no.: 209-184**

Protection cover; transparent

[www.wago.com/209-184](http://www.wago.com/209-184)

## Marker

**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-115](http://www.wago.com/2009-115)**Item no.: 209-183**

Marker; white

[www.wago.com/209-183](http://www.wago.com/209-183)**Item no.: 793-501**

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

[www.wago.com/793-501](http://www.wago.com/793-501)**Item no.: 793-502**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-502](http://www.wago.com/793-502)**Item no.: 793-503**

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

[www.wago.com/793-503](http://www.wago.com/793-503)**Item no.: 793-504**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-504](http://www.wago.com/793-504)**Item no.: 793-505**

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-505](http://www.wago.com/793-505)**Item no.: 793-506**

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-506](http://www.wago.com/793-506)**Item no.: 793-566**

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

[www.wago.com/793-566](http://www.wago.com/793-566)

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

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**Item no.: 793-5501**

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](http://www.wago.com/793-5501)

## Group marker carrier

**Item no.: 209-145**

Group marker carrier; white

[www.wago.com/209-145](http://www.wago.com/209-145)

**Item no.: 249-105**

Group marker carrier; gray

[www.wago.com/249-105](http://www.wago.com/249-105)

**Jumpers**

## Jumper

**Item no.: 858-402**

Jumper; 2-way; insulated; light blue

[www.wago.com/858-402](http://www.wago.com/858-402)

**Mounting**

## Socket without relay

**Item no.: 858-110**

Ejector; for basic relays 25 mm x 35 mm

[www.wago.com/858-110](http://www.wago.com/858-110)

**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)

**Indicators**

## Status indication

**Item no.: 788-120**

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

[www.wago.com/788-120](http://www.wago.com/788-120)

**Downloads****Documentation****Bid Text**

|              |              |         |          |
|--------------|--------------|---------|----------|
| 858-303      | 2019 年2月20 日 | docx    | Download |
| docx - Datei |              | 17.3 kB |          |

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

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|                        |              |               |          |
|------------------------|--------------|---------------|----------|
| 858-303<br>X81 - Datei | 2019 年2月19 日 | xml<br>4.8 kB | 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 858-303 |  | URL | Download |
|----------------------|--|-----|----------|

**CAE data**

|                           |  |     |          |
|---------------------------|--|-----|----------|
| EPLAN Data Portal 858-303 |  | URL | Download |
|---------------------------|--|-----|----------|

|                      |  |     |          |
|----------------------|--|-----|----------|
| ZUKEN Portal 858-303 |  | URL | Download |
|----------------------|--|-----|----------|

|                        |  |     |          |
|------------------------|--|-----|----------|
| WSCAD Universe 858-303 |  | URL | Download |
|------------------------|--|-----|----------|

**Environmental Product Compliance****Compliance Search**

|  |  |     |          |
|--|--|-----|----------|
| Environmental Product Compliance 858-303<br>Relay module; Nominal input voltage: 12 VDC; 4 changeover contacts; Limiting continuous current: 5 A; with manual operation; Red status indicator; Module width: 31 mm |  | URL | Download |
|--|--|-----|----------|

**Installation Notes****Commoning**

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





Removing a jumper via screwdriver.

### Marking



Marking using WMB Multi markers and group marker carriers.

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