

Data sheet | Item number: 858-303

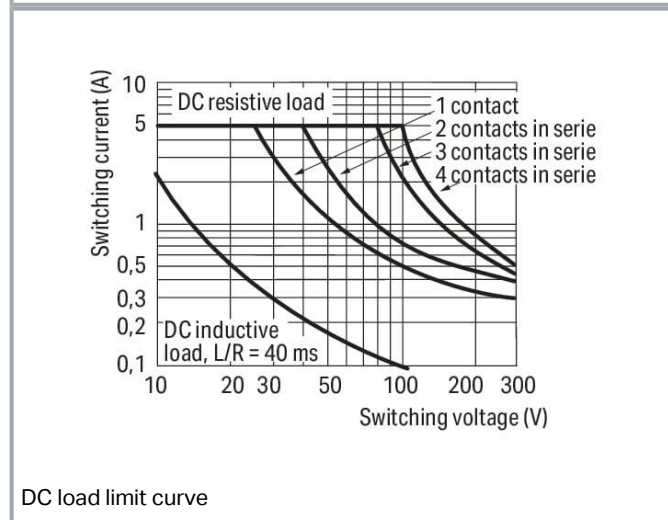
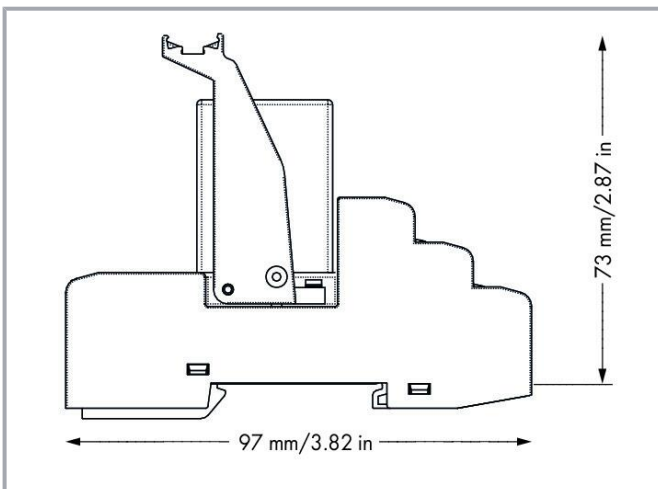
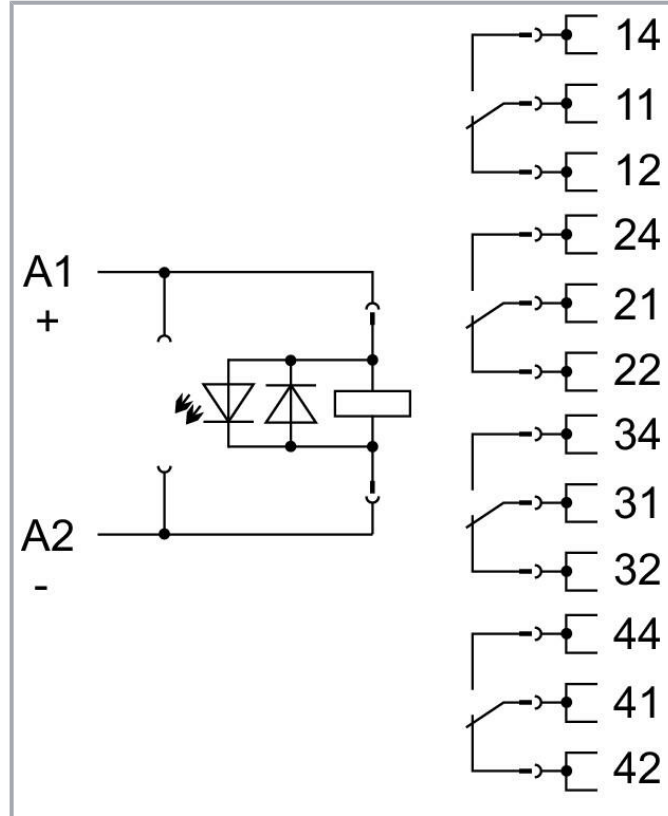
Relay module; Nominal input voltage: 12 VDC; 4 changeover contacts;
Limiting continuous current: 5 A; with manual operation; Red status indicator;
Module width: 31 mm



www.wago.com/858-303



i Picture differs from the item.



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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
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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 |

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 ³ switching operations |
| Mechanical life | 20 x 10 ⁶ switching operations |

Signaling

| | |
|------------------|-----------------------|
| Status indicator | Red LED Mechanical |
|------------------|-----------------------|

Safety and protection

| | |
|--|------------------|
| Rated voltage | 300 V |
| Rated surge voltage | 2.5 kV |
| Overtoltage 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 |

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



| | |
|-------------------------------------|--|
| 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 ² / 22 ... 16 AWG |
| Fine-stranded conductor | 0.34 ... 1.5 mm ² / 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 ² / 1 x 2.5 mm ² / 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 _N) | -25 ... +70 °C |
| Ambient temperature UL (operation at U _N) | -25 ... 50 °C |
| Ambient temperature (storage) | -40 ... +70 °C |
| Processing temperature | -25 ... +50 °C |
| Temperature range of connection cable | ≥ (T _{ambient} + 25 K) |
| Relative humidity | 5 ... 85 % |
| Operating altitude (max.) | 2000 m |

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

Standards and specifications

| | |
|--------------------------|---|
| Standards/specifications | EN 61010-2-201 EN 61810-1 EN 61373 UL 508 (max. 50 °C) |
|--------------------------|---|

Basic relay

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

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 | |
| ECCN | NO DATA |
| 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 |
|--|--|--------------------------|-------------------------------------|
|  | EAC Brjansker Zertifizierungsstelle | TP TC 004/2011 | EAC RU C-DE.AM02. B.00122 /19 |



Declarations of conformity and manufacturer's declarations

Certificate

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

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

Optional accessories


Basic Relay

Basic relay

| | | |
|--|--|--|
|  | Item no.: 858-164 Basic relay; Nominal input voltage: 12 VDC | www.wago.com/858-164 |
|--|--|--|

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 |
|--|---|--|

Mounting

Socket without relay

| | | |
|--|---|--|
|  | Item no.: 858-110 Ejector; for basic relays 25 mm x 35 mm | www.wago.com/858-110 |
|--|---|--|




Jumpers

Jumper

| | | |
|--|--|--|
|  | Item no.: 858-402 Jumper; 2-way; insulated; light blue | www.wago.com/858-402 |
|--|--|--|

Ferrule

Ferrule

| | | |
|---|--|--|
|  | Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 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 Ferrule; Sleeve for 0.75 mm ² / 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 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red | www.wago.com/216-243 |

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



Item no.: 216-244

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

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

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

Marking device



Item no.: 210-110

Fiber-tip pen

www.wago.com/210-110

Double marker carrier



Item no.: 209-128

Adaptor; gray

www.wago.com/209-128

Protective marker cover



Item no.: 209-184

Protection cover; transparent

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



Item no.: 209-183

Marker; white

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



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



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

Item no.: 793-504

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WAGO GmbH & Co. KG

Hansastr. 27








32423 Minden

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| | |
|---|--|
|  | WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-504 white |
|  | Item no.: 793-505 WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-505 white |
|  | Item no.: 793-506 WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-506 white |
|  | Item no.: 793-566 WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-566 white |
|  | 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 |
| Group marker carrier | |
|  | Item no.: 209-145 Group marker carrier; white www.wago.com/209-145 |
|  | Item no.: 249-105 Group marker carrier; gray www.wago.com/249-105 |

Downloads

Documentation

Bid Text

| | | | |
|-------------------------|-------------|-----------------|----------|
| 858-303 docx - Datei | 2019 Feb 20 | docx 17.3 kB | Download |
| 858-303 X81 - Datei | 2019 Feb 19 | xml 4.8 kB | Download |

Additional Information

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

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 858-303 | URL | Download |
|----------------------|-----|----------|

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

CAE data

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

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

Asset Administration Shell

| | | |
|------------------------------------|---------------------|--------------------------|
| Asset Administration Shell 858-303 | URL | Download |
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Environmental Product Compliance

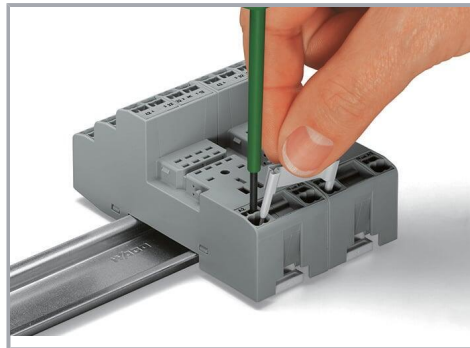
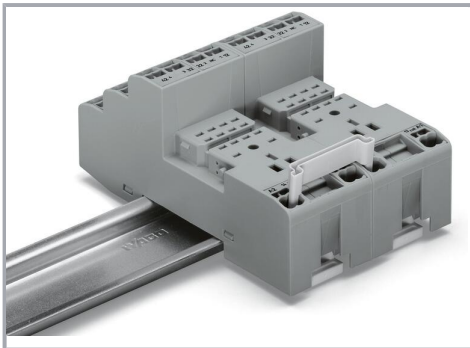
Compliance Search

| | | |
|--|---------------------|--------------------------|
| Environmental Product Compliance 858-303 | URL | Download |
|--|---------------------|--------------------------|

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

Installation Notes

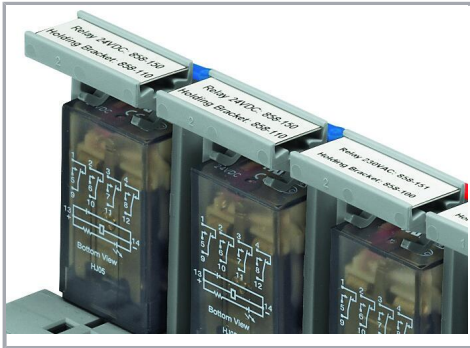
Commoning



Removing a jumper via screwdriver.

Marking

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



Marking using WMB Multi markers and group marker carriers.

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