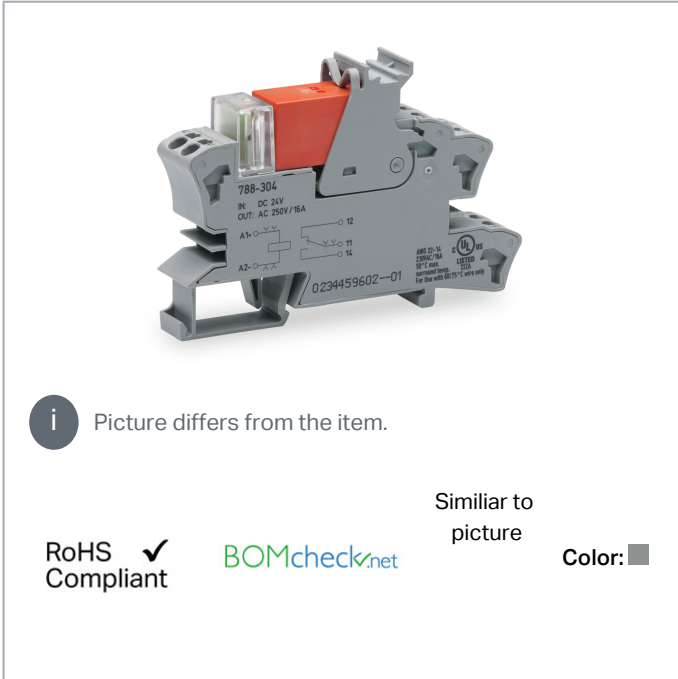


Data sheet | Item number: 788-303

Relay module; Nominal input voltage: 12 VDC; 1 changeover contact;
Limiting continuous current: 16 A; Red status indicator; Module width: 15 mm; 2,50 mm²; gray



www.wago.com/788-303



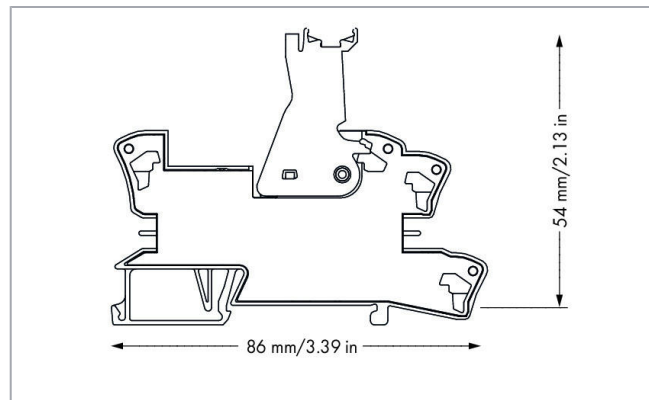
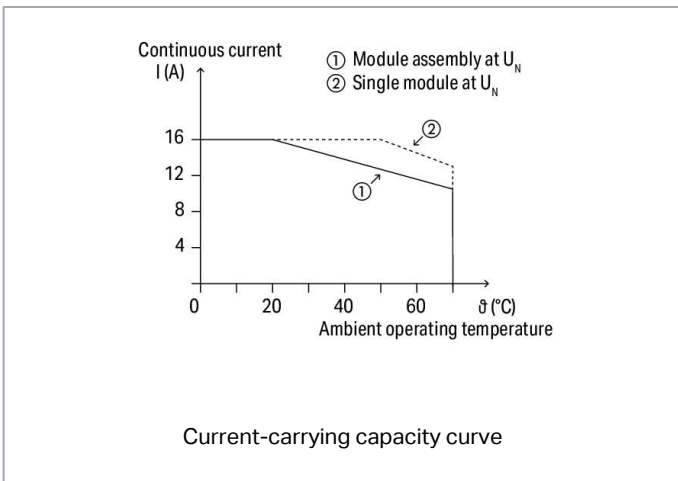
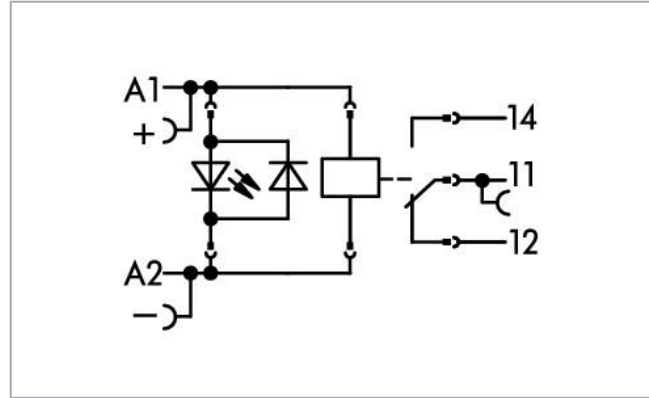
i Picture differs from the item.

Similar to picture

RoHS Compliant ✓

BOMcheck.net

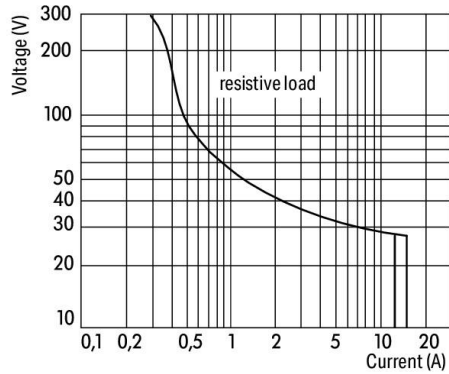
Color: ■



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

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



DC load limit curve

Item description

Note:

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

Data

Technical data

Control circuit

| | |
|--------------------------------|------------|
| Nominal input voltage U_N | DC 12 V |
| Input voltage range | $\pm 10\%$ |
| Nominal input current at U_N | 36 mA |

Load circuit

| | |
|------------------------------------------|------------|
| Number of changeover/switchover contacts | 1 |
| Contact material (relay) | AgNi 90/10 |
| Limiting continuous current | 16 A |

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



| | |
|----------------------------------------------|----------------------------------------------|
| Inrush current (resistive) (max.) | (AC) 30 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: 6 A / AC 250 V; DC-13: 2 A / DC 24 V |
| Recommended minimum load | 12 V / 10 mA |
| Pull-in time (typ.) | 8 ms |
| Drop-out time (typ.) | 6 ms |
| Bounce time (typ.) | 6 ms |
| Electrical life (NO; resistive load; 23 °C) | 30 x 10 ³ switching operations |
| Mechanical life | 30 x 10 ⁶ switching operations |
| Switching frequency with/without load (max.) | 6 min ⁻¹ / 1200 min ⁻¹ |

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 |
| Protection type | IP20 |

Connection data

| | |
|-------------------------|----------------------------------------------|
| Connection technology | Push-in CAGE CLAMP® |
| Solid conductor | 0.34 ... 2.5 mm ² / 22 ... 14 AWG |
| Fine-stranded conductor | 0.34 ... 2.5 mm ² / 22 ... 14 AWG |
| Strip length | 9 ... 10 mm / 0.35 ... 0.39 inch |

Physical data

| | |
|------------------------------------|--------------------|
| Width | 15 mm / 0.591 inch |
| Height from upper-edge of DIN-rail | 54 mm / 2.126 inch |
| Depth | 86 mm / 3.386 inch |

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

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Mechanical data

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

Material data

| | |
|-----------|---------|
| Color | gray |
| Fire load | 0.67 MJ |
| Weight | 45.9 g |

Environmental requirements

| | |
|---------------------------------------------------|----------------|
| Surrounding air temperature (operation at U_N) | -40 ... 70 °C |
| Surrounding air temperature (storage) | -40 ... 70 °C |
| Processing temperature | -25 ... +50 °C |

Standards and specifications

| | |
|--------------------------|----------------------------------------------------------|
| Standards/Specifications | EN 61010-2-201; EN 61810-1; EN 61373; UL 508 (max. 10 A) |
|--------------------------|----------------------------------------------------------|

Basic relay


| | |
|------------------|---------|
| WAGO Basic Relay | 788-150 |
|------------------|---------|

Commercial data

| | |
|-----------------------|---------------------------|
| Product Group | 6 (Interface Electronics) |
| Packaging type | BOX |
| Country of origin | CN |
| GTIN | 4055143184106 |
| Customs tariff number | 85364900990 |

Approvals / Certificates






UL-Approvals

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


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

Compatible products










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 |
|  | Item no.: 216-244 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | www.wago.com/216-244 |
|  | Item no.: 216-542 Twin ferrule; Sleeve for 2 x 1 mm ² / AWG 2 x 18; red, insulated; 12 mm long; red | www.wago.com/216-542 |














tools

| | | |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured | www.wago.com/210-720 |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

Marking accessories

| | | |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|  | Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white | www.wago.com/2009-110 |
|  | 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.: 209-128 Adaptor; gray | www.wago.com/209-128 |
|  | Item no.: 209-183 Marker card; white | www.wago.com/209-183 |
|  | Item no.: 210-110 Fiber-tip pen | www.wago.com/210-110 |
|  | Item no.: 249-105 Group marker carrier; gray | www.wago.com/249-105 |
|  | 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 |

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

| | | |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | 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 |
|  | 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 |
| Jumper | | |
|  | Item no.: 788-113 Jumper; for jumper slot; 2-way; insulated | www.wago.com/788-113 |
|  | Item no.: 788-114 Jumper; for jumper slot; 3-way; insulated | www.wago.com/788-114 |
|  | Item no.: 788-115 Jumper; for jumper slot; 4-way; insulated | www.wago.com/788-115 |
|  | Item no.: 788-116 Jumper; for jumper slot; 6-way; insulated | www.wago.com/788-116 |
|  | Item no.: 788-117 Jumper; for jumper slot; 8-way; insulated | www.wago.com/788-117 |
|  | Item no.: 788-118 Jumper; for jumper slot; from 1 to 3; insulated | www.wago.com/788-118 |
|  | Item no.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray | www.wago.com/859-402 |
| General accessories | | |
|  | Item no.: 209-145 Group marker carrier; white | www.wago.com/209-145 |
|  | Item no.: 209-184 Protection cover; transparent | www.wago.com/209-184 |
|  | Item no.: 788-120 Accessories for relay modules; Operation status indicator: red | www.wago.com/788-120 |
|  | Item no.: 788-150 Basic relay; Nominal input voltage: 12 VDC; 1 changeover contact; Limiting continuous current: 16 A; Module width: 13 mm; Module height: 15 mm | www.wago.com/788-150 |

Downloads

Documentation

Bid Text

| | | | |
|--------------|-------------|------|----------|
| 788-303 | 2019 Jan 25 | docx | Download |
| docx - Datei | | | |

788-303

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



| | | | |
|-------------|-------------|---------------|----------|
| X81 - Datei | 2019 Feb 19 | xml 4.7 kB | Download |
|-------------|-------------|---------------|----------|

Instruction Leaflet

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

Additional Information

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

CAD/CAE-Data

CAD data

| | | | |
|----------------------|--|-----|----------|
| 2D/3D Models 788-303 | | URL | Download |
|----------------------|--|-----|----------|

CAE data

| | | | |
|---------------------------|--|-----|----------|
| EPLAN Data Portal 788-303 | | URL | Download |
|---------------------------|--|-----|----------|

| | | | |
|------------------------|--|-----|----------|
| WSCAD Universe 788-303 | | URL | Download |
|------------------------|--|-----|----------|

| | | | |
|----------------------|--|-----|----------|
| ZUKEN Portal 788-303 | | URL | Download |
|----------------------|--|-----|----------|

Environmental Product Compliance

Compliance Search

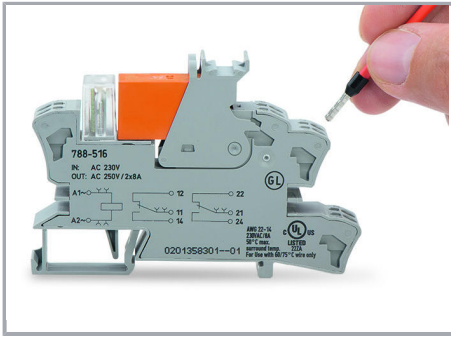
| | | | |
|------------------------------------------|--|-----|----------|
| Environmental Product Compliance 788-303 | | URL | Download |
|------------------------------------------|--|-----|----------|

Relay module; Nominal input voltage: 12 VDC; 1 changeover contact; Limiting continuous current: 16 A; Red status indicator; Module width: 15 mm; 2,50 mm²; gray

Installation Notes

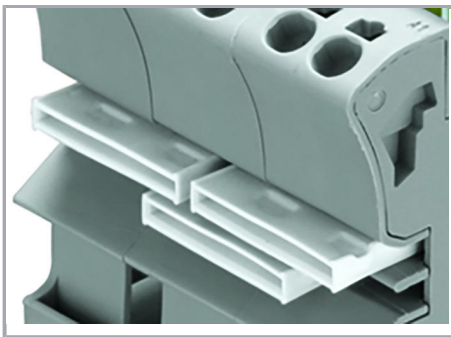
Conductor termination

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



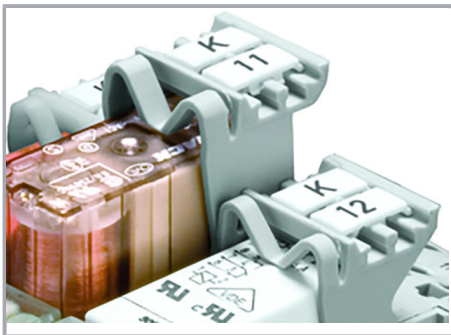
Connection of conductor

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!