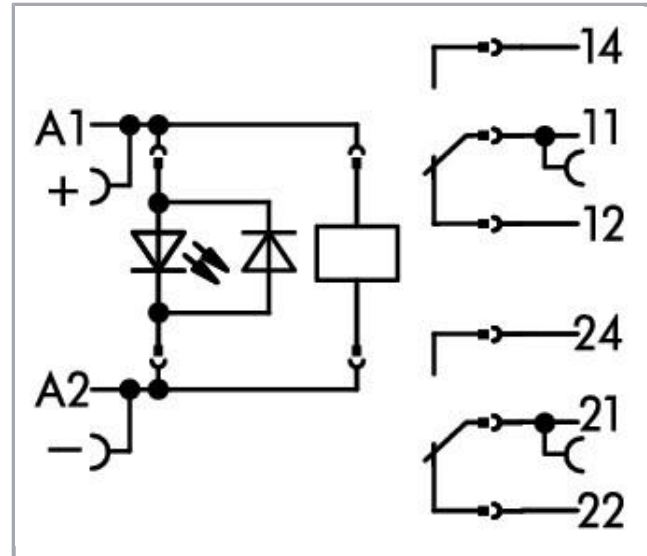
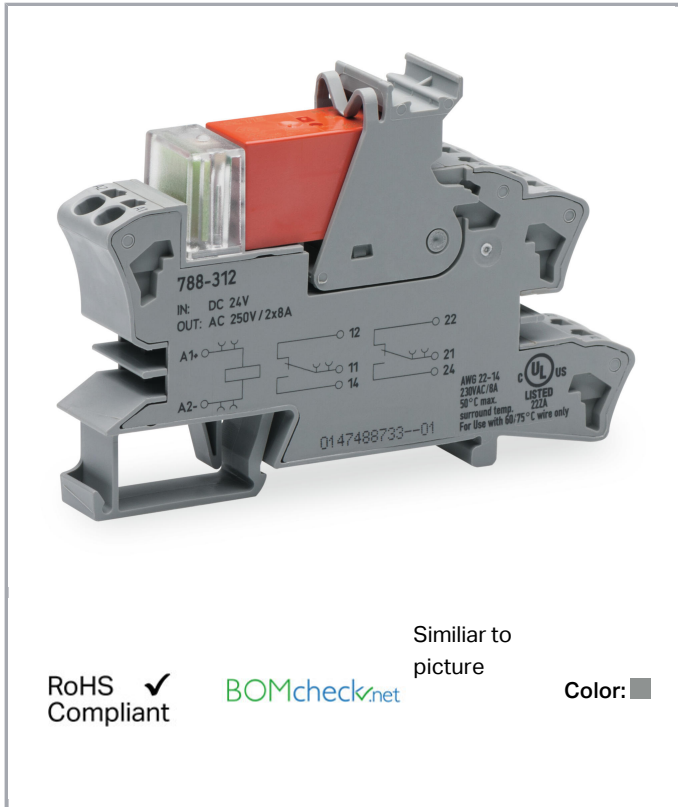


Data sheet | Item number: 788-311

Relay module; Nominal input voltage: 12 VDC; 2 changeover contacts;
Limiting continuous current: 8 A; Red status indicator; Module width: 15 mm;
2,50 mm²; gray

www.wago.com/788-311



RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)

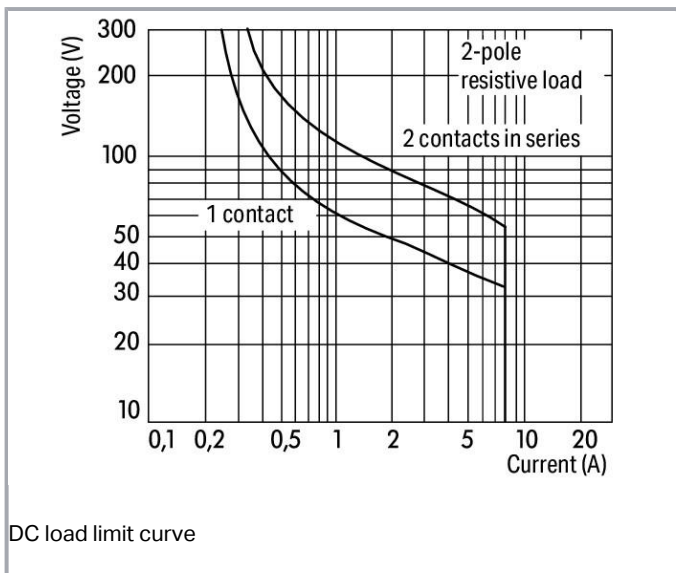
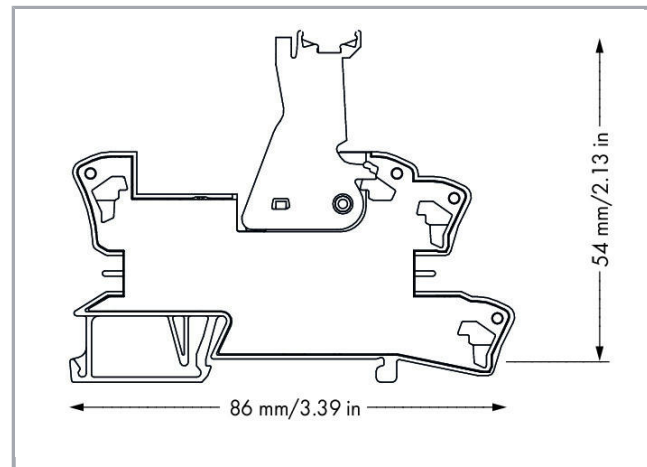
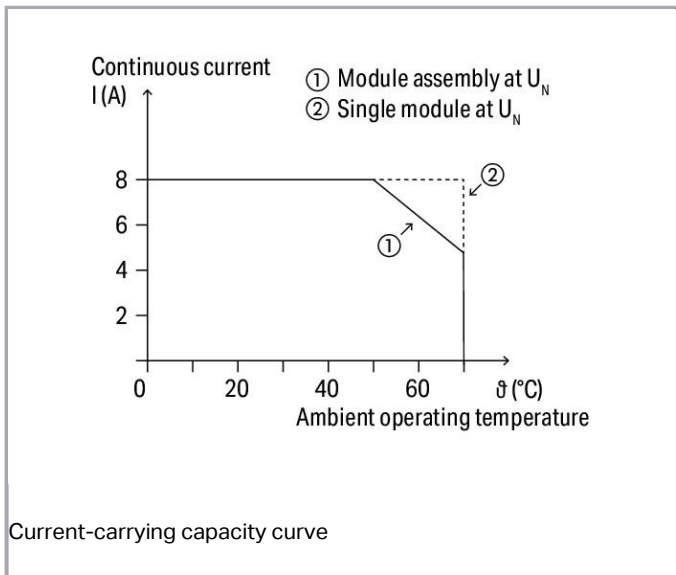
Similar to picture

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.



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.

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

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	2
Contact material (relay)	AgNi 90/10
Limiting continuous current	8 A
Inrush current (resistive) (max.)	(AC) 15 A / 4 s
Switching voltage (max.)	AC 250 V
Switching power (resistive) (max.)	AC 2000 VA; DC (see load limit curve)
Switching capacity	AC-15: 3 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.)	13 ms
Bounce time (typ.)	10 ms
Electrical life (NO; resistive load; 23 °C)	10×10^3 switching operations
Mechanical life	30×10^6 switching operations
Switching frequency with/without load (max.)	6 min^{-1} / 1200 min^{-1}

Signaling

Status indicator	Red LED
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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

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



Dielectric strength, load/load circuit (AC, 1 min)	2,5 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

Geometrical 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

Mechanical data

Mounting type	DIN-35 rail
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Material Data

Color	gray
Fire load	0.669 MJ
Weight	45.4 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
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Elementary relay

WAGO Basic Relay	788-152
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Subject to changes. Please also observe the further product documentation!

Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	CN
GTIN	4055143184120
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















Counterpart

Compatible products

Marking accessories

	Item no.: 2009-110 Marking strips; 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.: 2009-115/000-002 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	www.wago.com/2009-115/000-002
	Item no.: 2009-115/000-006 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	www.wago.com/2009-115/000-006
	Item no.: 2009-115/000-007 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	www.wago.com/2009-115/000-007

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

	Item no.: 2009-115/000-012 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	www.wago.com/2009-115/000-012
	Item no.: 2009-115/000-017 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green	www.wago.com/2009-115/000-017
	Item no.: 2009-115/000-023 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	www.wago.com/2009-115/000-023
	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.: 793-501/000-002 WMB marking card; as card; not stretchable; plain; snap-on type; yellow	www.wago.com/793-501/000-002
	Item no.: 793-501/000-005 WMB marking card; as card; not stretchable; plain; snap-on type; red	www.wago.com/793-501/000-005
	Item no.: 793-501/000-006 WMB marking card; as card; not stretchable; plain; snap-on type; blue	www.wago.com/793-501/000-006
	Item no.: 793-501/000-007 WMB marking card; as card; not stretchable; plain; snap-on type; gray	www.wago.com/793-501/000-007
	Item no.: 793-501/000-012 WMB marking card; as card; not stretchable; plain; snap-on type; orange	www.wago.com/793-501/000-012
	Item no.: 793-501/000-017 WMB marking card; as card; not stretchable; plain; snap-on type; light green	www.wago.com/793-501/000-017

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



Item no.: 793-501/000-023
WMB marking card; as card; not stretchable; plain; snap-on type; green

www.wago.com/793-501/000-023



Item no.: 793-501/000-024
WMB marking card; as card; not stretchable; plain; snap-on type; violet

www.wago.com/793-501/000-024



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.: 793-502/000-002
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; yellow

www.wago.com/793-502/000-002



Item no.: 793-502/000-005
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; red

www.wago.com/793-502/000-005



Item no.: 793-502/000-006
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; blue

www.wago.com/793-502/000-006



Item no.: 793-502/000-007
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; gray

www.wago.com/793-502/000-007



Item no.: 793-502/000-012
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; orange

www.wago.com/793-502/000-012



Item no.: 793-502/000-017
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; light green

www.wago.com/793-502/000-017



Item no.: 793-502/000-023
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; green

www.wago.com/793-502/000-023



Item no.: 793-502/000-024
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; violet

www.wago.com/793-502/000-024



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.: 793-503/000-002
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; yellow

www.wago.com/793-503/000-002

Item no.: 793-503/000-005
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type;

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



red

www.wago.com/793-503/000-005



Item no.: 793-503/000-006

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

www.wago.com/793-503/000-006



Item no.: 793-503/000-007

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

www.wago.com/793-503/000-007



Item no.: 793-503/000-012

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

www.wago.com/793-503/000-012



Item no.: 793-503/000-017

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

www.wago.com/793-503/000-017



Item no.: 793-503/000-023

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

www.wago.com/793-503/000-023



Item no.: 793-503/000-024

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

www.wago.com/793-503/000-024



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.: 793-504/000-002

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

www.wago.com/793-504/000-002



Item no.: 793-504/000-005

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

www.wago.com/793-504/000-005



Item no.: 793-504/000-006

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

www.wago.com/793-504/000-006



Item no.: 793-504/000-012

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

www.wago.com/793-504/000-012



Item no.: 793-504/000-017

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

www.wago.com/793-504/000-017

Item no.: 793-504/000-023

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



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

www.wago.com/793-504/000-023



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



Item no.: 793-505/000-005

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

www.wago.com/793-505/000-005



Item no.: 793-505/000-006

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

www.wago.com/793-505/000-006



Item no.: 793-505/000-007

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

www.wago.com/793-505/000-007



Item no.: 793-505/000-012

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

www.wago.com/793-505/000-012



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



Item no.: 793-506/000-005

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

www.wago.com/793-506/000-005



Item no.: 793-506/000-006

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

www.wago.com/793-506/000-006



Item no.: 793-506/000-012

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

www.wago.com/793-506/000-012



Item no.: 793-506/000-017

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

www.wago.com/793-506/000-017



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



Item no.: 793-5501/000-002

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

www.wago.com/793-5501/000-002
















Item no.: 793-5501/000-005

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

www.wago.com/793-5501/000-005

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

	Item no.: 793-5501/000-006 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue	www.wago.com/793-5501/000-006
	Item no.: 793-5501/000-007 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray	www.wago.com/793-5501/000-007
	Item no.: 793-5501/000-012 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange	www.wago.com/793-5501/000-012
	Item no.: 793-5501/000-014 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown	www.wago.com/793-5501/000-014
	Item no.: 793-5501/000-017 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green	www.wago.com/793-5501/000-017
	Item no.: 793-5501/000-023 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green	www.wago.com/793-5501/000-023
	Item no.: 793-5501/000-024 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet	www.wago.com/793-5501/000-024
	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
	Item no.: 793-566/000-002 WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; yellow	www.wago.com/793-566/000-002
	Item no.: 793-566/000-005 WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; red	www.wago.com/793-566/000-005
	Item no.: 793-566/000-006 WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; blue	www.wago.com/793-566/000-006
	Item no.: 793-566/000-007 WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; gray	www.wago.com/793-566/000-007
	Item no.: 793-566/000-012 WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; orange	www.wago.com/793-566/000-012

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

**Item no.: 793-566/000-017**

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

www.wago.com/793-566/000-017**Item no.: 793-566/000-023**

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

www.wago.com/793-566/000-023**Item no.: 793-566/000-024**

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

www.wago.com/793-566/000-024**ferrule****Item no.: 216-241**Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; whitewww.wago.com/216-241**Item no.: 216-242**Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; graywww.wago.com/216-242**Item no.: 216-243**Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; redwww.wago.com/216-243**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; blackwww.wago.com/216-244**Item no.: 216-542**Twin ferrule; Sleeve for 2 x 1 mm² / AWG 2 x 18; red, insulated; 12 mm long; redwww.wago.com/216-542**Jumper****Item no.: 788-113**

Comb-style jumper bar; 2-way; insulated

www.wago.com/788-113**Item no.: 788-114**

Comb-style jumper bar; 3-way; insulated

www.wago.com/788-114**Item no.: 788-115**

Comb-style jumper bar; 4-way; insulated

www.wago.com/788-115**Item no.: 788-116**

Comb-style jumper bar; 6-way; insulated

www.wago.com/788-116**Item no.: 788-117**

Comb-style jumper bar; 8-way; insulated

www.wago.com/788-117**Item no.: 788-118**

Comb-style jumper bar; 2-way (1-3); insulated

www.wago.com/788-118**Item no.: 859-402**

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; light gray

www.wago.com/859-402

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.



Item no.: 859-402/000-005
Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; red

www.wago.com/859-402/000-005



Item no.: 859-402/000-006
Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; blue

www.wago.com/859-402/000-006



Item no.: 859-402/000-029
Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; yellow

www.wago.com/859-402/000-029

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.: 788-152
Basic relay; Nominal input voltage: 12 VDC; 2 changeover contacts; Limiting continuous current: 8 A; Module width: 13 mm; Module height: 15 mm

www.wago.com/788-152

tools



Item no.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

www.wago.com/210-720

Downloads

Documentation

Bid Text

788-311 GAEB X81 - Datei	Feb 19, 2019	xml 4.7 kB	Download
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788-311 GAEB docx - Datei	Jan 25, 2019	docx 16.9 kB	Download
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Instruction Leaflet

Sockets with Elementary Relay/ SSR	V 1.0.0	pdf 2.4 MB	Download
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Subject to changes. Please also observe the further product documentation!

CAD/CAE-Data

CAD data

2D/3D Models 788-311	URL	Download
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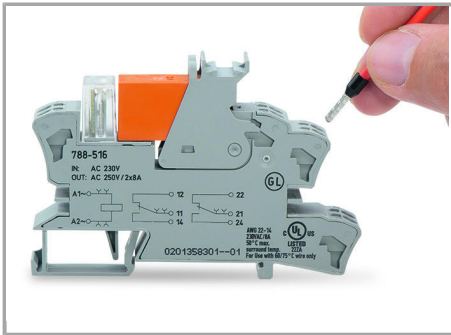
CAE data

EPLAN Data Portal 788-311	URL	Download
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WSCAD Universe 788-311	URL	Download
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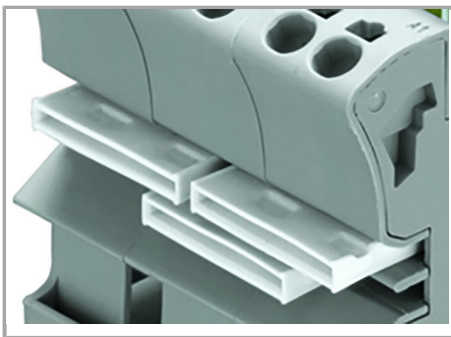
Installation Notes

Conductor termination



Connection of conductor

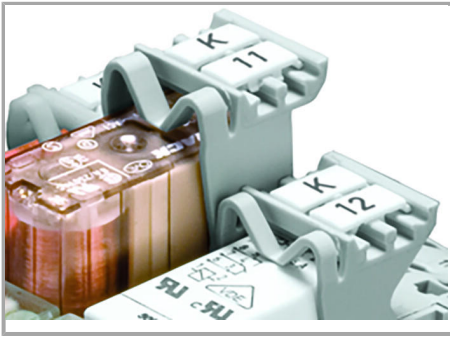
Commoning



Easy commoning using adjacent jumpers

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!