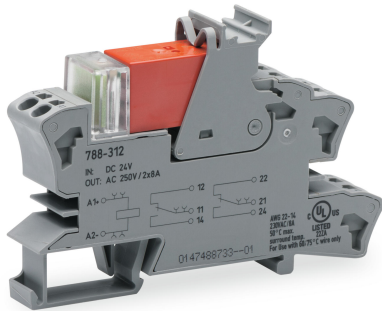


Data sheet | Item number: 788-312

Relay module; Nominal input voltage: 24 VDC; 2 changeover contacts;
Limiting continuous current: 8 A; Red status indicator; Module width: 15 mm;
2,50 mm²; gray

www.wago.com/788-312

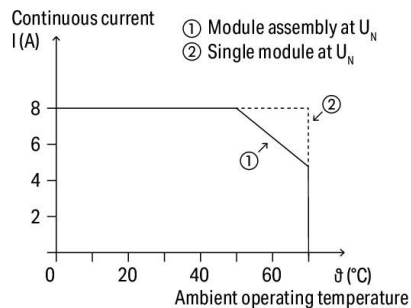
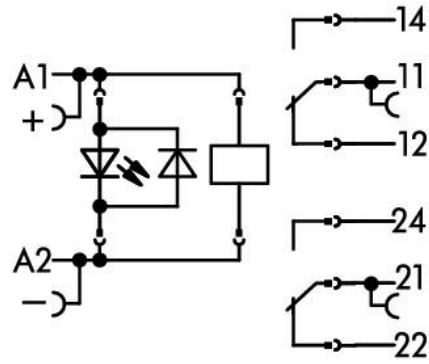


RoHS
Compliant

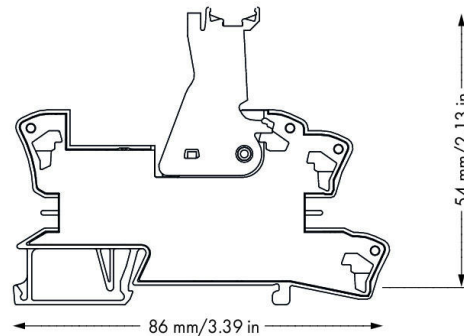
BOMcheck.net

Similar to
picture

Color: ■



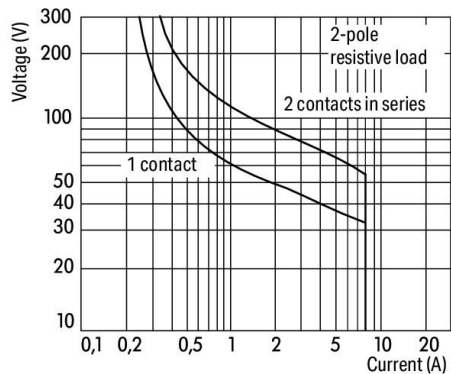
Current-carrying capacity curve



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

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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 24 V
Input voltage range	$\pm 10\%$
Nominal input current at U_N	19 mA

Load circuit

Number of changeover/switchover contacts	2
--	---

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

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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 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
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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
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

Physical data

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

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Depth	86 mm / 3.386 inch
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Mechanical data

Mounting type	DIN-35 rail
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Material Data

Color	gray
Fire load	1.345 MJ
Weight	45.5 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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Basic relay

WAGO Basic Relay	788-156
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Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	CN
GTIN	4055143184137
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

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Counterpart

Compatible products

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.: 788-156 Basic relay; Nominal input voltage: 24 VDC; 2 changeover contacts; Limiting continuous current: 8 A; Module width: 13 mm; Module height: 15 mm	www.wago.com/788-156

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

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
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	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
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	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
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	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
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	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
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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
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	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
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	Item no.: 209-128 Adaptor; gray	www.wago.com/209-128
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	Item no.: 209-183 Marker card; white	www.wago.com/209-183
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	Item no.: 210-110 Fiber-tip pen	www.wago.com/210-110
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	Item no.: 249-105 Group marker carrier; gray	www.wago.com/249-105
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	Item no.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/793-501
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	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
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	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
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	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
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	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
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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
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Downloads

Documentation

Bid Text

788-312 GAEB X81 - Datei	Feb 19, 2019	xml 4.7 kB	Download
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788-312 GAEB docx - Datei	Jan 25, 2019	docx 16.8 kB	Download
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Instruction Leaflet

Sockets with Elementary Relay/ SSR	V 1.0.1 Oct 9, 2020	pdf 2.3 MB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 788-312	URL	Download
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CAE data

EPLAN Data Portal 788-312	URL	Download
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WSCAD Universe 788-312	URL	Download
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ZUKEN Portal 788-312	URL	Download
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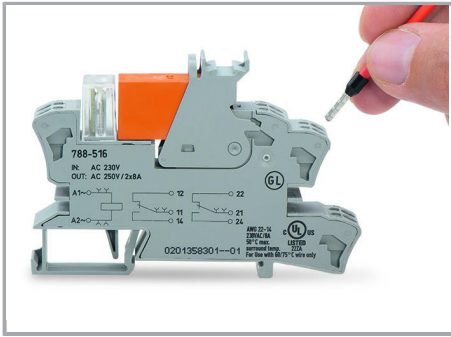
Installation Notes

Conductor termination

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

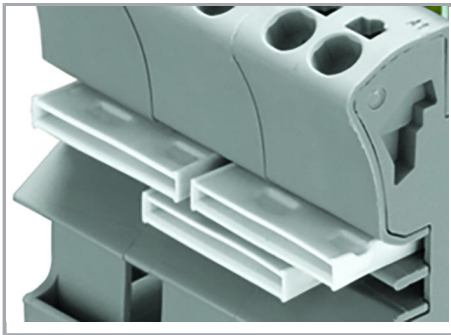
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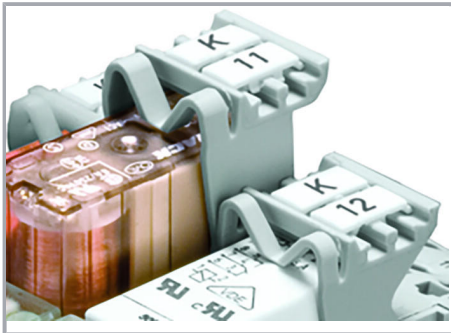
Connection of conductor

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!