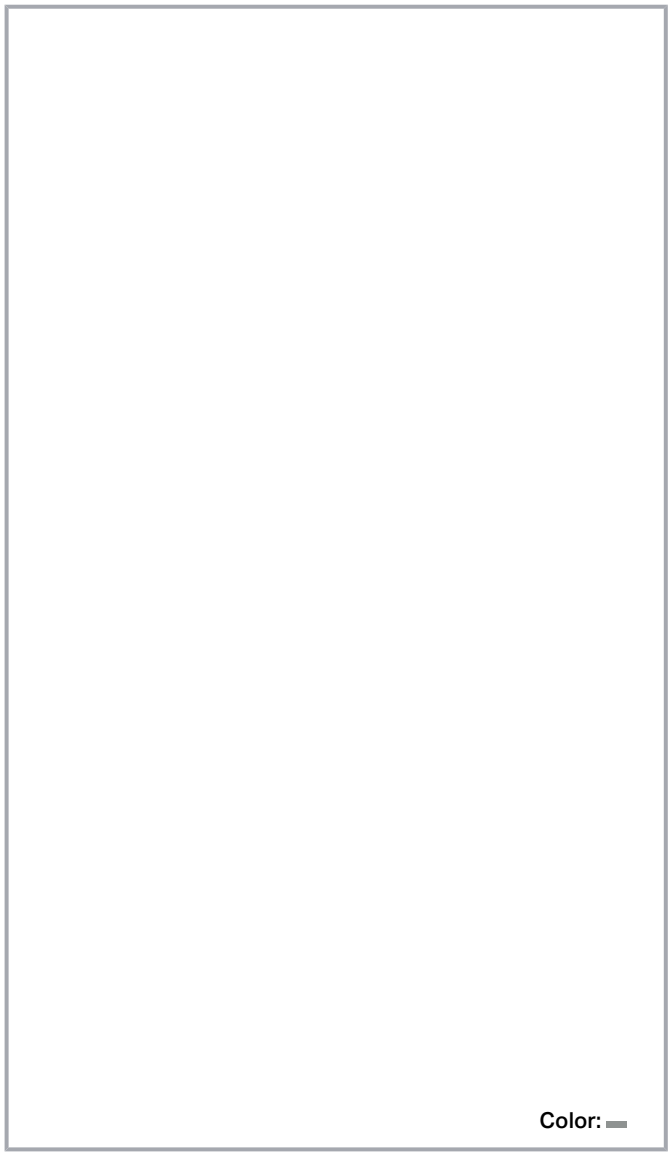
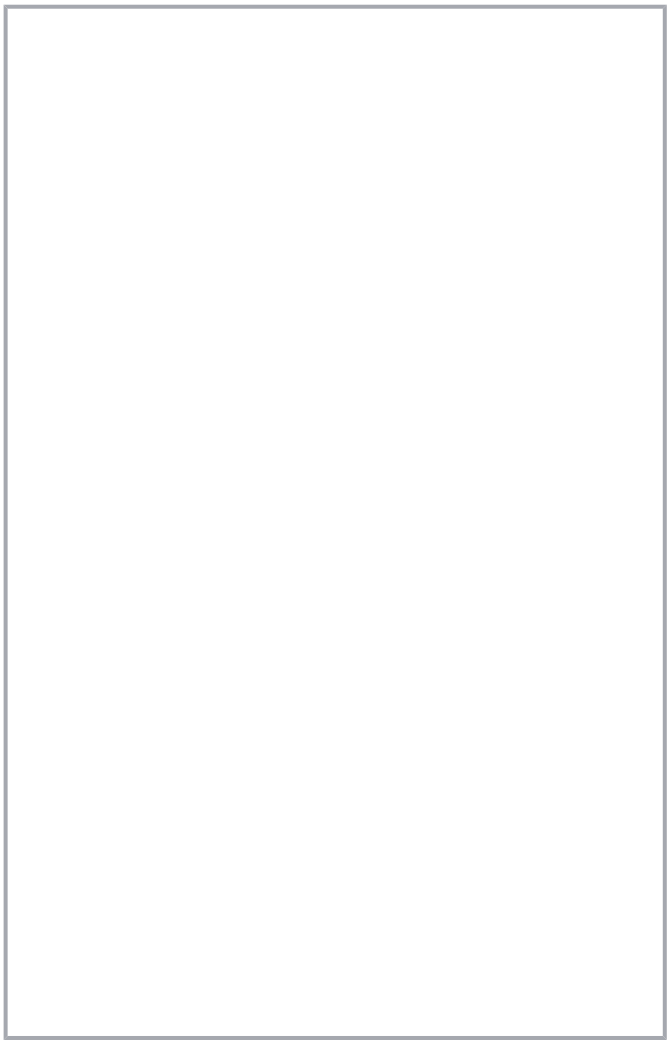
Data sheet | Item number: 788-303

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

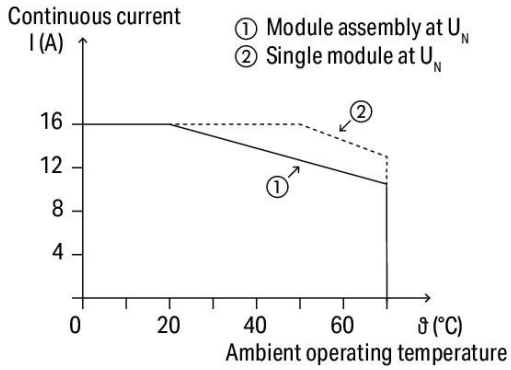




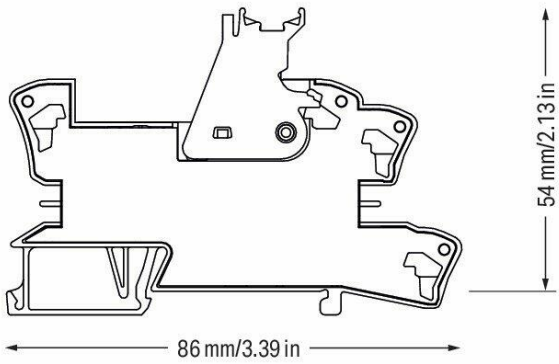
Subject to changes. Please also observe the further product documentation!

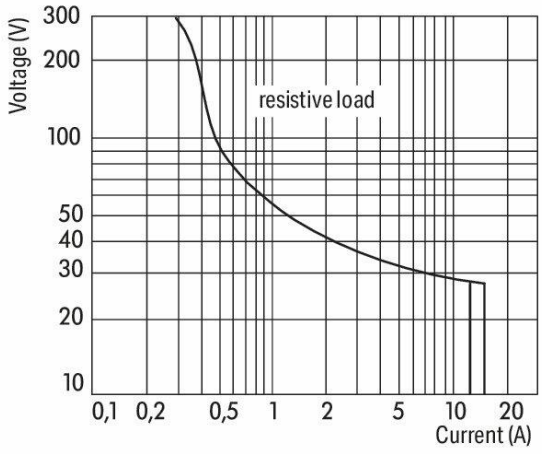
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Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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Current-carrying capacity curve





DC load limit curve

Data

Notes

Safety information 1	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.
Note	■ Reinforced insulation between coil and contacts ■ To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

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Technical data

Control circuit

Nominal input voltage U_N	DC 12 V
Input voltage range	±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
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
Safety information 1	A separator plate (e.g., 209-191) must be used for voltages greater

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	than 250 V between adjacent relay modules and for compliance with the reinforced insulation requirements.
Protection type	IP20

Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch

Physical data

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

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 (operating) temperature for UL	-40 … 50 °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)

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Basic relay

WAGO Basic Relay	788-150

Commercial data

Product Group	6 (Interface Electronics)
PU (SPU)	20 (1) Stück
Packaging type	box
Country of origin	CN
GTIN	4055143184106
Customs tariff number	85364900990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011	EAC RU C-DE.AM02.B.00122/19

UL-Approvals

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

Optional accessories

Indicators

Operation status indicator

Item no.: 788-120
Accessories for relay modules; Operation status indicator: red; Nominal operating voltage: 24 VDC
www.wago.com/788-120

Tool

Operating tool

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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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 card; 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

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

Ferrule

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; white
www.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; gray
www.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; red
www.wago.com/216-243

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	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
	Item no.: 216-542 Twin ferrule; Sleeve for 2 x 1 mm² / AWG 2 x 18; red, insulated; 12 mm long; red	www.wago.com/216-542

Jumpers

Jumper

	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

Downloads

Documentation

Bid Text

788-303 X81 - Datei	2019 Feb 19	xml 4.7 kB	Download
788-303 docx - Datei	2019 Jan 25	docx 16.7 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

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WSCAD Universe 788-303	URL	Download
ZUKEN Portal 788-303	URL	Download

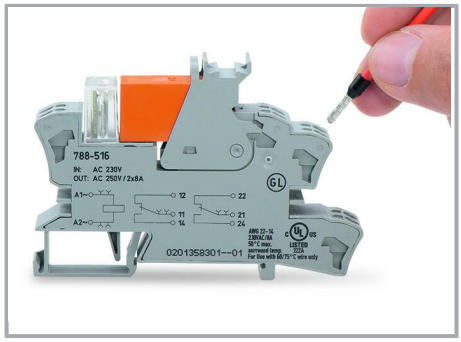
Environmental Product Compliance

Compliance Search

Environmental Product Compliance 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	URL	Download

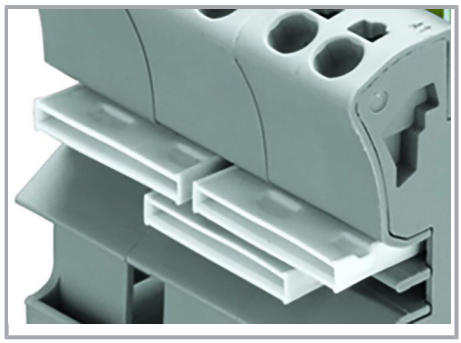
Installation Notes

Conductor termination



Conductor termination

Commoning



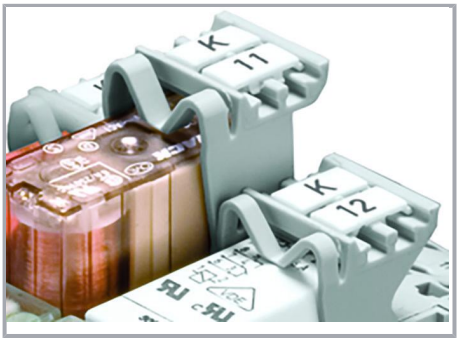
Easy commoning using adjacent jumpers

Marking

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Marking using WMB Multi markers and group marker carriers.

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