

Data sheet | Item number: 788-543

Relay module; Nominal input voltage: 115 VAC; 1 changeover contact;
Limiting continuous current: 16 A; with manual operation; Red status
indicator; Module width: 15 mm



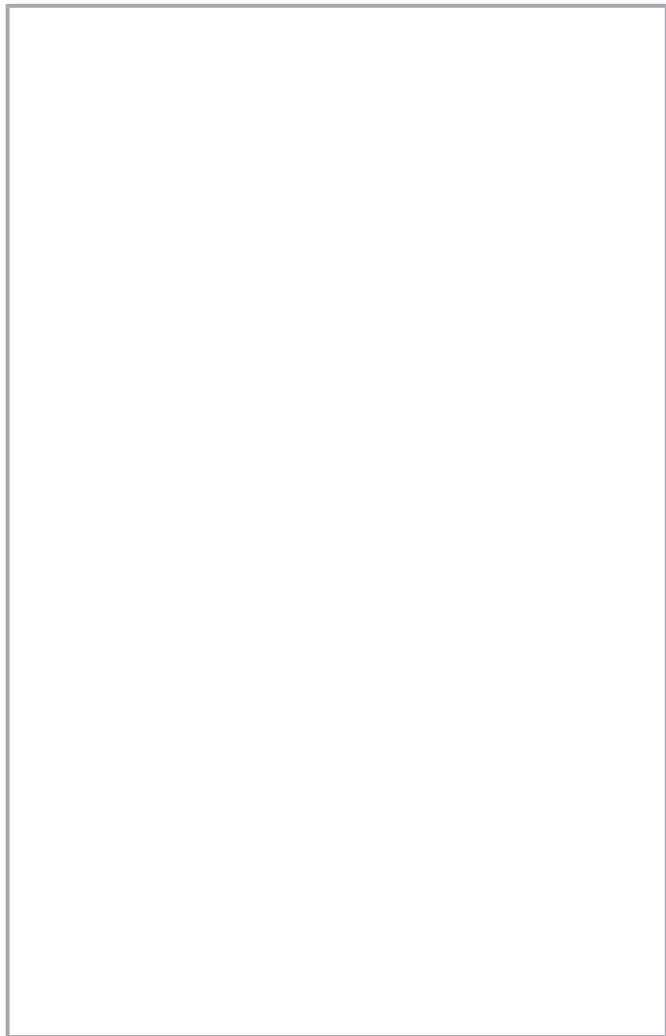
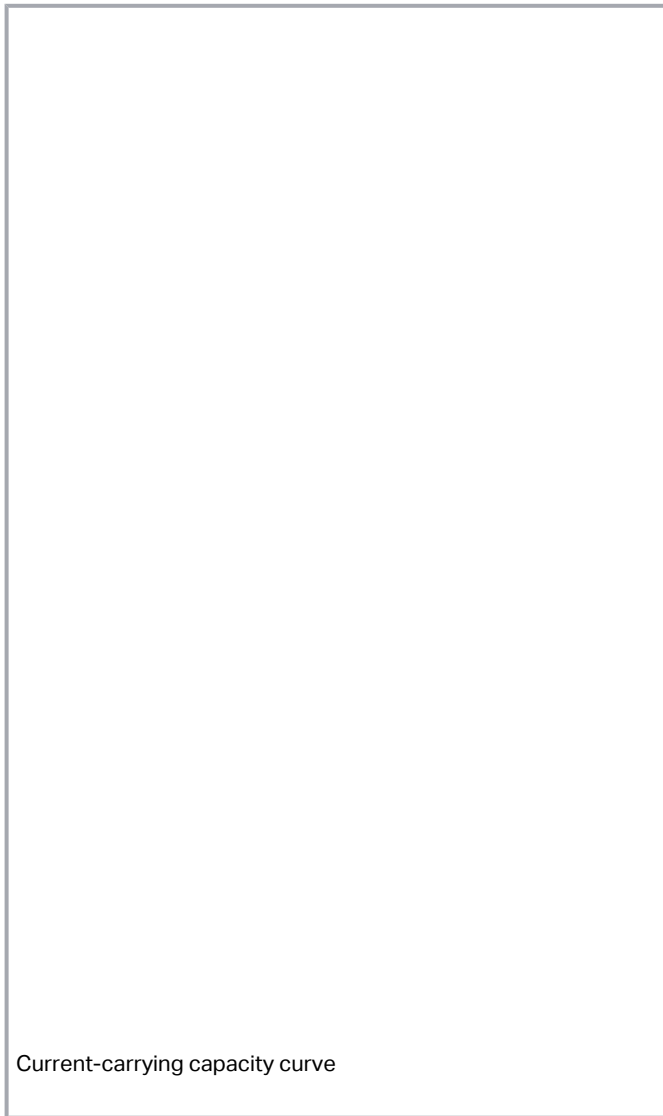
www.wago.com/788-543



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.



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Data

Notes

Safety information

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	AC 115 V
Input voltage range	$\pm 10 \%$
Nominal input current at U_N	7 mA

Load circuit

Number of changeover/switchover contacts	1
Contact material (relay)	AgNi
Limiting continuous current	16 A
Inrush current (resistive) max.	(AC) 32 A / 0.02 s; (AC) 24 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: 3 A / AC 240 V; DC-13: 2 A / DC 24 V
Recommended minimum load	12 V / 10 mA
Pull-in time (typ.)	15 ms
Drop-out time (typ.)	8 ms
Bounce time (typ.)	6 ms
Electrical life (NO; resistive load; 23 °C)	10×10^3 switching operations
Mechanical life	5×10^6 switching operations
Switching frequency with/without load (max.)	6 min^{-1} / 300 min^{-1}

Signaling

Status indicator	Red LED Mechanical
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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
Safety information	A separator plate (e.g., 209-191) must be used for voltages greater than 250 V between adjacent relay modules and for compliance with

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the reinforced insulation requirements.

Protection type	IP20
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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 inches

Physical data

Width	15 mm / 0.591 inches
Height	86 mm / 3.386 inches
Depth from upper-edge of DIN-rail	73 mm / 2.874 inches

Mechanical data

Mounting type	DIN-35 rail
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Material Data

Fire load	0.669 MJ
Weight	45.7 g

Environmental requirements

Ambient temperature (operation at U _N)	-40 ... +70 °C
Ambient temperature UL (operation at U _N)	-40 ... +50 °C
Ambient temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T _{ambient} + 20 K)

Standards and specifications

Standards/specifications	EN 61010-2-201 EN 61810-1 EN 61373 UL 508 (max. 10 A)
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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	
PU (SPU)	15 (1) pcs
Packaging type	box
Country of origin	DE
GTIN	4050821226888
Customs tariff number	85364900990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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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
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Vol.1 Sec. 6

Declarations of conformity and manufacturer's declarations

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

Optional accessories

Ferrule
Ferrule

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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
Filter Module	
Suppressor module	
Item no.: 788-148 Filter module; RC filter element; Nominal voltage: 230 VAC	www.wago.com/788-148
Indicators	
Status indication	
Item no.: 788-124 Accessories for relay modules; Operation status indicator: red	www.wago.com/788-124
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
Jumpers	
Jumper	
Item no.: 788-116 Jumper; for jumper slot; 6-way; insulated; light gray	www.wago.com/788-116
Item no.: 788-117 Jumper; for jumper slot; 8-way; insulated; light gray	www.wago.com/788-117
Item no.: 788-114 Jumper; for jumper slot; 3-way; insulated; light gray	www.wago.com/788-114
Item no.: 788-113 Jumper; for jumper slot; 2-way; insulated; light gray	www.wago.com/788-113
Item no.: 788-115 Jumper; for jumper slot; 4-way; insulated; light gray	www.wago.com/788-115
Item no.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray	www.wago.com/859-402

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Item no.: 788-118

Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray

www.wago.com/788-118

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

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

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

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Downloads Documentation

Bid Text

788-543 X81 - Datei	2019 年2月19 日	xml 5.1 kB	Download
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788-543 docx - Datei	2019 年1月25 日	docx 17.2 kB	Download
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Instruction Leaflet

Sockets with Elementary Relay/ SSR	V 1.0.1 2020 年10月9 日	pdf 2.3 MB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 788-543	URL	Download
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CAE data

EPLAN Data Portal 788-543	URL	Download
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WSCAD Universe 788-543	URL	Download
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ZUKEN Portal 788-543	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 788-543 Relay module; Nominal input voltage: 115 VAC; 1 changeover contact; Limiting continuous current: 16 A; with manual operation; Red status indicator; Module width: 15 mm	URL	Download
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Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking using WMB Multi markers and group marker carriers.

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