

Data sheet | Item number: 788-307

Relay module; Nominal input voltage: 110 VDC; 1 changeover contact;
Limiting continuous current: 16 A; Red status indicator; Module width: 15
mm; 2,50 mm²; gray

www.wago.com/788-307



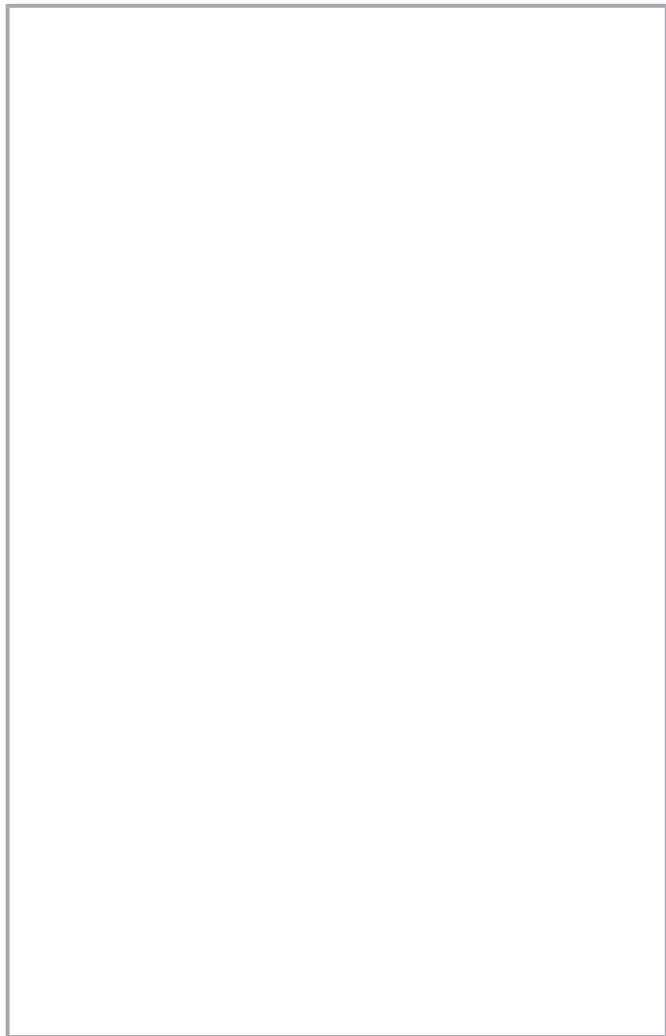
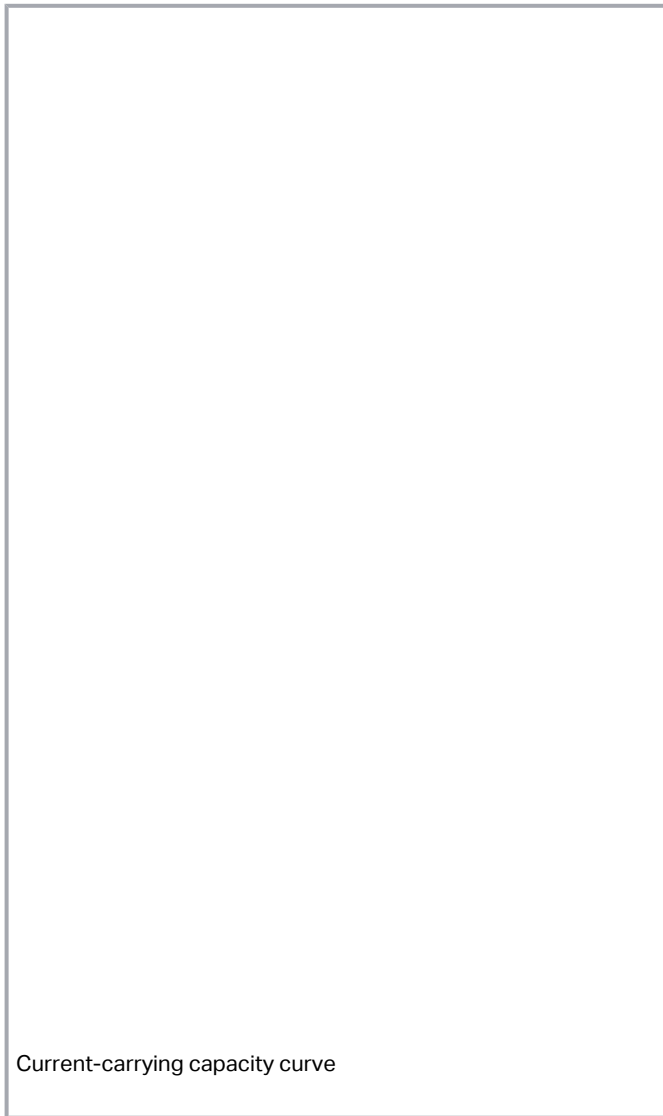
Color:



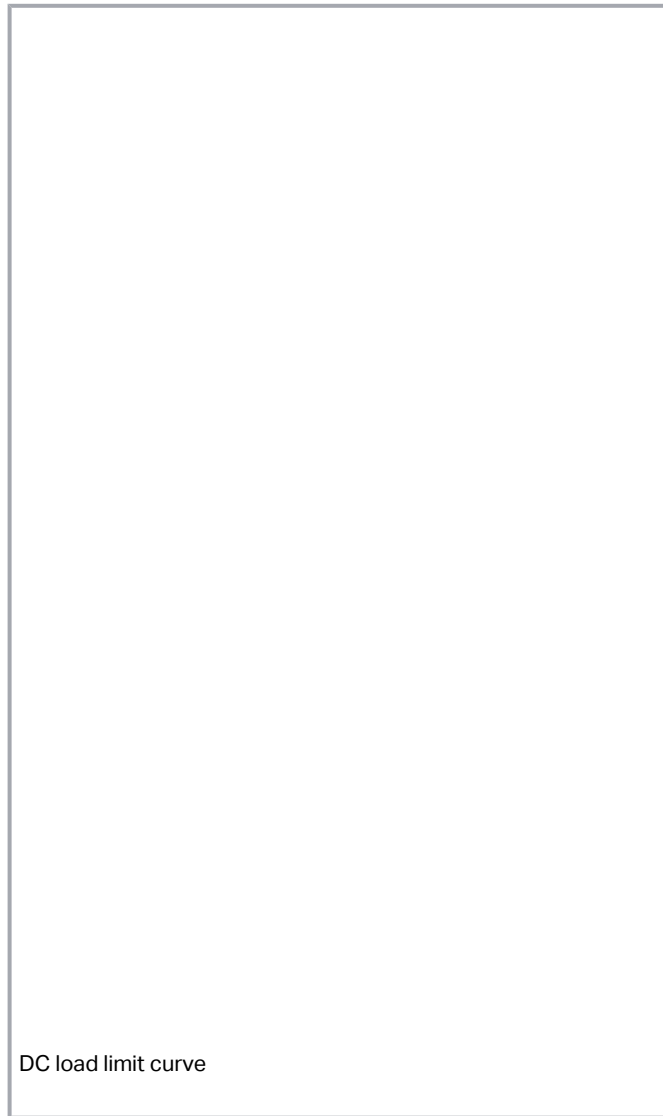
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Data

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	DC 110 V
Input voltage range	$\pm 10\%$
Nominal input current at U_N	6 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)	30×10^3 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
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.

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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	54 mm / 2.126 inches

Mechanical data

Mounting type	DIN-35 rail
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Material Data

Color	gray
Fire load	0.673 MJ
Weight	46.5 g

Environmental requirements

Ambient temperature (operation at U _N)	-40 ... +70 °C
Ambient temperature UL (operation at U _N)	-40 ... +40 °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. 40 °C/10 A)
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Subject to changes. Please also observe the further product documentation!



Basic relay

WAGO Basic Relay	788-166
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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)	20 (1) pcs
Packaging type	box
Country of origin	DE
GTIN	4045454520663
Customs tariff number	85364900990

Environmental Product Compliance

CAS-No.	80-05-7
REACH Candidate List Substance	4,4'-isopropylidenediphenol
RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Austria)	b0151012-3a3d-455f-b06f-f79fad6fb0ca
SCIP notification number (Belgium)	4567e358-d9b6-4048-ab34-efa9c7143a2a
SCIP notification number (Bulgaria)	9fe44173-96c1-40be-8ce6-0f3a38e438cd
SCIP notification number (Czech Republic)	30388cb3-f061-4200-99f1-30c8123bfafc
SCIP notification number (Denmark)	bfaad282-8b67-4d14-a54e-f3f38b5009c5
SCIP notification number (Finland)	b0a9ed03-8b66-4ef3-afeb-eb5cffe5160e
SCIP notification number (France)	3c164bc5-cd5d-4c17-9056-88f17e7896d1
SCIP notification number (Germany)	dde5452b-697f-4a90-8618-01362a57aa82
SCIP notification number (Hungary)	250a132f-bde6-4dc4-9cee-9a5cd026706b
SCIP notification number (Italy)	db4dd4ac-2bcf-4af4-870c-1c64edf9313a
SCIP notification number (Netherlands)	3d264ccb-c4f3-417d-80ce-fabca361b350
SCIP notification number (Poland)	d4ca8c75-99d2-42ce-8c1d-c1d33829e33b
SCIP notification number (Romania)	6a1bd6aa-830f-46b3-b7b1-75220b5aa597
SCIP notification number (Sweden)	d13e48af-8172-4466-bae9-5dd3ded1c57d

Approvals / Certificates

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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

Indicators

Status indication		
Item no.: 788-122 Accessories for relay modules; Operation status indicator: red; Nominal operating voltage: 110 VDC		www.wago.com/788-122

Basic Relay

Basic relay		
Item no.: 788-166 Basic relay; Nominal input voltage: 110 VDC; 1 changeover contact; Limiting continuous current: 16 A; Module width: 13 mm; Module height: 15 mm		www.wago.com/788-166

Ferrule

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

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



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
Item no.: 788-118 Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray	www.wago.com/788-118

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
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 Marking device

Item no.: 210-110 Fiber-tip pen	www.wago.com/210-110
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 Double marker carrier

Item no.: 209-128 Adaptor; gray	www.wago.com/209-128
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 Protective marker cover

Item no.: 209-184 Protection cover; transparent	www.wago.com/209-184
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 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

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



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

Downloads

Documentation

Bid Text

788-307 X81 - Datei	2019 年2月19日	xml 4.7 kB	Download
788-307 docx - Datei	2019 年1月25日	docx 16.7 kB	Download

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 788-307	URL	Download
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CAE data

EPLAN Data Portal 788-307	URL	Download
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ZUKEN Portal 788-307	URL	Download
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WSCAD Universe 788-307	URL	Download
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Environmental Product Compliance

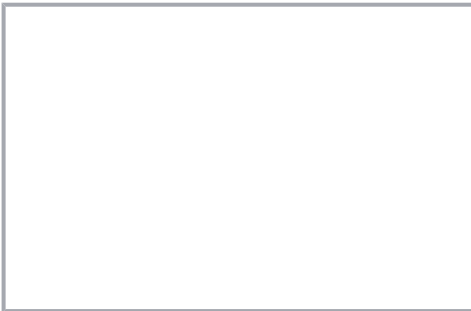
Compliance Search

Environmental Product Compliance 788-307	URL	Download
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Relay module; Nominal input voltage: 110 VDC; 1 changeover contact; Limiting continuous current: 16 A; Red status indicator; Module width: 15 mm; 2,50 mm²; gray

Installation Notes

Conductor termination



Conductor termination

Commoning

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



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!