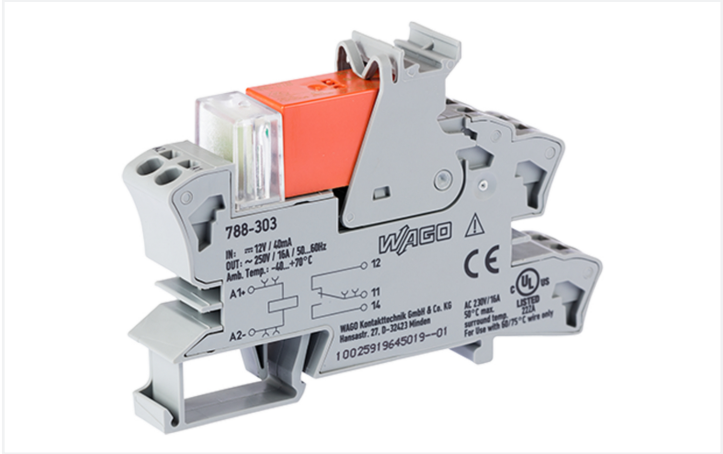


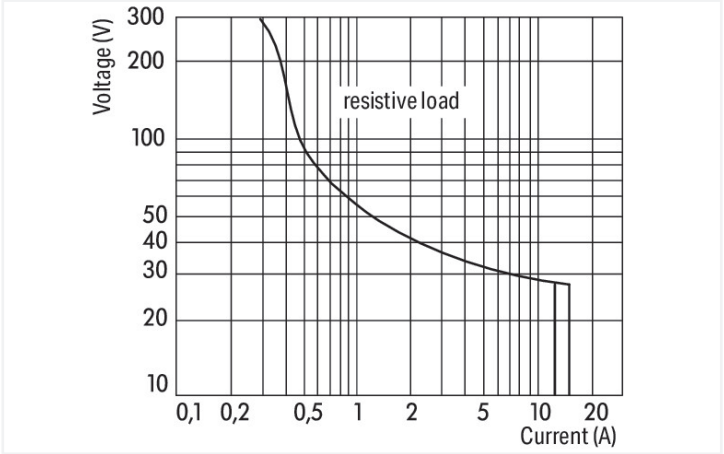
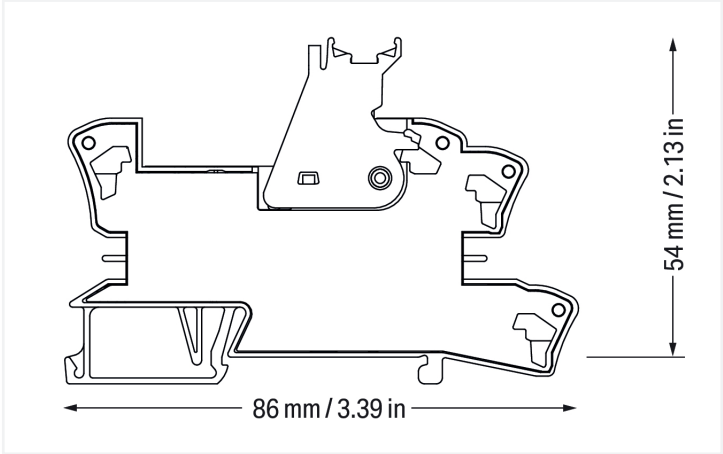
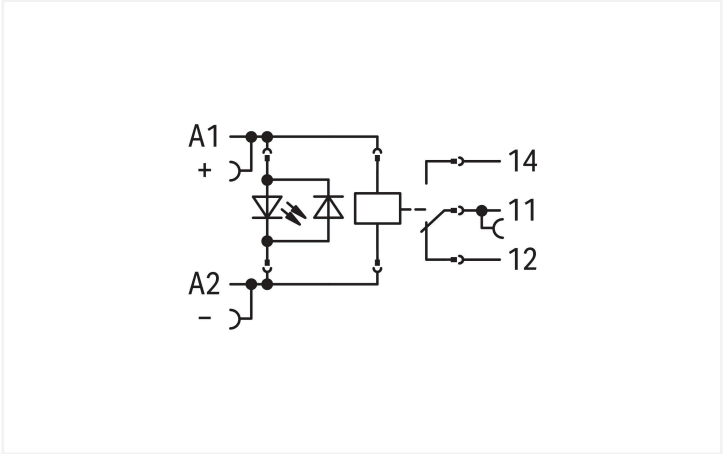
Data Sheet | Item Number: 788-303

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

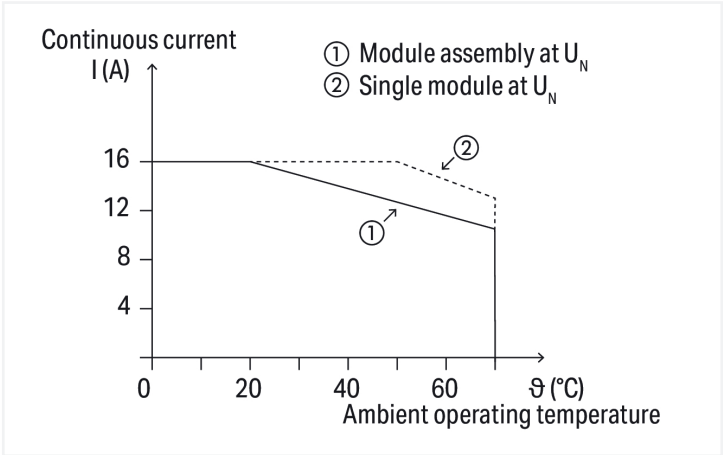
<https://www.wago.com/788-303>



Color: ■ gray



DC load limit curve



Current-carrying capacity curve



Notes	
Safety Information	A separator plate (e.g., 209-191) must be used for voltages exceeding 250 V between adjacent relay modules and to comply with 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.

Technical data	
Control circuit	Load circuit
Nominal input voltage U _N	12 VDC
Input voltage range	±10 %
Nominal input current at U _N	36 mA
	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.
	250 VAC
	Switching power (resistive) max.
	AC 4000 VA; DC (see load limit curve)
	Switching capacity
	AC-15: 6 A / 250 VAC; DC-13: 2 A / 24 VDC
	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 impulse withstand 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 exceeding 250 V between adjacent relay modules and to comply with reinforced insulation requirements.
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 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

Material data		
Note (material data)		Information on material specifications can be found here
Color		gray
Fire load		0.67 MJ
Weight		45.9 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)

Basic relay		
WAGO Basic Relay		788-150

Commercial data		
Product Group		6 (INTERFACE ELECTRONIC)
PU (SPU)		20 (1) pcs
Packaging type		Box
Country of origin		CN
GTIN		4055143184106
Customs tariff number		85364900990

Product Classification		
UNSPSC		39122334
eCl@ss 10.0		27-37-16-01
eCl@ss 9.0		27-37-16-01
ETIM 9.0		EC001437
ETIM 8.0		EC001437
ECCN		NO US CLASSIFICATION



Environmental Product Compliance	
CAS-No.	7439-92-1 7440-43-9
REACH Candidate List Substance	Cadmium Lead
RoHS Compliance Status	Compliant,No Exemption
SCIP notification number (Austria)	99c505cf-e077-4a9a-b16a-6140f44cd4eb
SCIP notification number (Belgium)	4266ea3e-dc9f-4b24-a0d8-2356e95cd7c4
SCIP notification number (Bulgaria)	01656078-fa14-4c20-9a40-ee83bce8417f
SCIP notification number (Czech Republic)	1974df66-5b4b-40ae-a482-4a13e32f1967
SCIP notification number (Denmark)	f73dee97-326f-4fe4-ac9f-8250a6ade0f5
SCIP notification number (Finland)	3f4ffffd-3374-43d6-bf7c-d42fe41ae943
SCIP notification number (France)	b8eefc77-60a8-4d01-ac5c-6440b1ee322c
SCIP notification number (Germany)	60d161ed-2ec3-4f92-924f-a46821a54182
SCIP notification number (Hungary)	54fc226a-363c-4637-ab6c-8f13a3415bfb
SCIP notification number (Italy)	cec603a6-2176-4d70-82b9-d753bb4a120e
SCIP notification number (Netherlands)	d3eeef65-85cf-4c0b-ae1-48d9b4ae5357
SCIP notification number (Poland)	b8916113-f6c2-42a7-98ca-9fafb0944c3f
SCIP notification number (Romania)	459ef119-0aa3-4da2-87fd-d618b48c7ad0
SCIP notification number (Sweden)	7e16af04-4c25-4bdd-a443-ac12320213db

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
		
Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03084
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Vol.1 Sec.6
Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 788-303	



Documentation							
Bid Text				Instruction Leaflet			
788-303	19.02.2019	xml 4.60 KB		Sockets with Elementa- ry Relay/ SSR	V 1.0.1 09.10.2020	pdf 2271.22 KB	
788-303	25.01.2019	docx 16.30 KB					

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 788-303	EPLAN Data Portal 788-303
	WSCAD Universe 788-303
	ZUKEN Portal 788-303

1 Compatible Products
1.1 Optional Accessories
1.1.1 Basic relay
1.1.1.1 Basic relay



Item No.: 788-150
Basic relay; Nominal input voltage: 12 VDC; 1 changeover contact; Limiting continuous current: 16 A; Module width: 13 mm; Module height: 15 mm

1.1.2 Ferrule
1.1.2.1 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

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

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

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



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



1.1.3 Indicators

1.1.3.1 Status indication



Item No.: 788-120
Accessories for relay modules; Operation status indicator: red; Nominal operating voltage: 24 VDC

1.1.4 Jumper

1.1.4.1 Jumper



Item No.: 788-118
Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray



Item No.: 788-113
Jumper; for jumper slot; 2-way; insulated; light gray



Item No.: 859-402
Jumper; for jumper slot; 2-way; insulated; light gray



Item No.: 788-114
Jumper; for jumper slot; 3-way; insulated; light gray



Item No.: 788-115
Jumper; for jumper slot; 4-way; insulated; light gray



Item No.: 788-116
Jumper; for jumper slot; 6-way; insulated; light gray



Item No.: 788-117
Jumper; for jumper slot; 8-way; insulated; light gray

1.1.5 Marking

1.1.5.1 Double marker carrier



Item No.: 209-128
Adaptor; gray

1.1.5.2 Group marker carrier



Item No.: 249-105
Group marker carrier; gray



Item No.: 209-145
Group marker carrier; white

1.1.5.3 Marker



Item No.: 209-183
Marker; white



Item No.: 793-502
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white



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



Item No.: 793-504
WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-505
WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



1.1.5.4 Marking device



Item No.: 210-110
Fiber-tip pen

1.1.5.5 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel;
not stretchable; plain; snap-on type; white

1.1.5.6 Protective marker cover



Item No.: 209-184
Protection cover; transparent

1.1.6 Tool

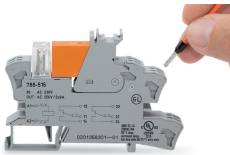
1.1.6.1 Operating tool



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

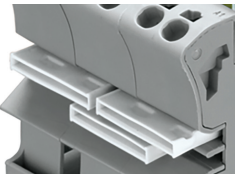
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking using WMB Multi markers and group marker carriers.