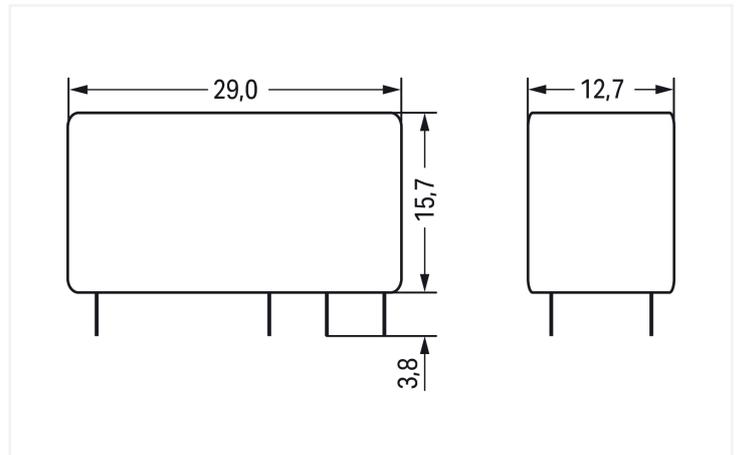
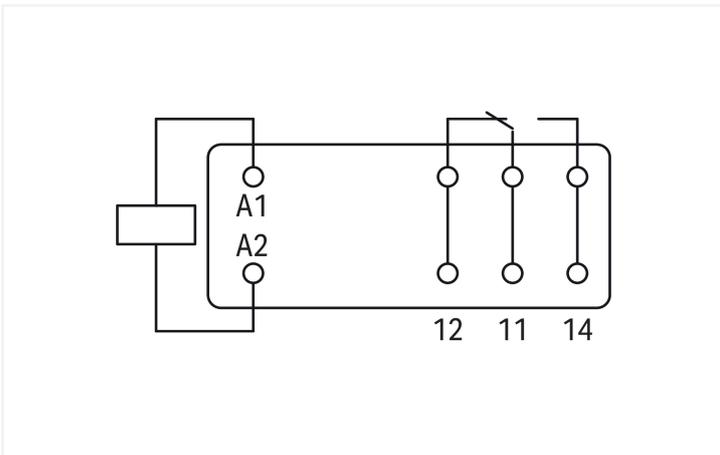


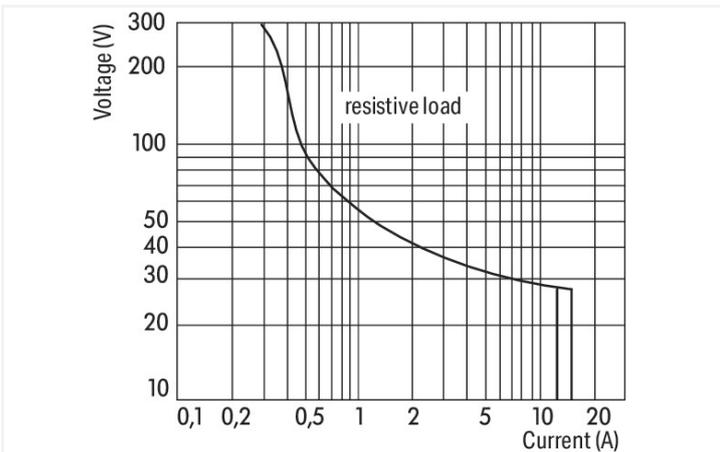
**Data Sheet | Item Number: 788-166**

Basic relay; Nominal input voltage: 110 VDC; 1 changeover contact; Limiting continuous current: 16 A; Module width: 13 mm; Module height: 15 mm

<https://www.wago.com/788-166>



Dimensions in mm



DC load limit curve

## Technical data

### Control circuit

Nominal input voltage $U_N$	110 VDC
Nominal input current at $U_N$	4 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.	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 <sup>3</sup> switching operations
Mechanical life	30 x 10 <sup>6</sup> switching operations
Switching frequency with/without load (max.)	6 min <sup>-1</sup> / 1200 min <sup>-1</sup>

## Safety and protection

Dielectric strength (control/load circuit) (AC, 1 min)	5 kVrms
Dielectric strength (open contact) (AC, 1 min)	1 kVrms

## Physical data

Width	12.7 mm / 0.5 inches
Height from the surface	15.7 mm / 0.618 inches
Depth	29 mm / 1.142 inches

## Mechanical data

Mounting type	Pluggable module
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## Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Fire load	0 MJ
Weight	13.5 g

## Environmental requirements

Ambient temperature (operation at $U_N$ )	-40 ... +85 °C
Ambient temperature (storage)	-40 ... +85 °C

### Standards and specifications

Standards/specifications	EN 61810-1
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### Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	20 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821867821
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)	16096d40-862a-4080-8e57-03dee13f3fce
SCIP notification number (Belgium)	28cd4897-4365-4fc4-be7f-161396e9444c
SCIP notification number (Bulgaria)	92ec6987-1918-46e2-ab8c-396f1b48a543
SCIP notification number (Czech Republic)	2479179b-3b45-451e-bd2b-761e4fb4b1e2
SCIP notification number (Denmark)	58acb7be-cae4-49b0-a2a8-d4b1e3aa208e
SCIP notification number (Finland)	e5fc0b12-024f-483b-9d59-f7897c9ae461
SCIP notification number (France)	9cb546f8-1a95-46af-818c-526138c5bbdb
SCIP notification number (Germany)	cf0c0be9-e526-4ac2-8ed0-7f7d102733c3
SCIP notification number (Hungary)	a2a4f7dd-3d79-4660-bf96-e54e1fa62a78
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SCIP notification number (Netherlands)	ef453ad3-3acd-4e79-b5e9-8c8995d62a43
SCIP notification number (Poland)	87467a93-31df-4b93-a3d3-fcc1dfc981cb
SCIP notification number (Romania)	2c17f364-cb62-4df0-9a2d-7287981f2716
SCIP notification number (Sweden)	80134039-1839-474a-a10f-4c9a1ed5f0fc

### Downloads

#### Environmental Product Compliance

##### Compliance Search

Environmental Product  
Compliance 788-166



## Documentation

Bid Text			
788-166	19.02.2019	xml 3.49 KB	<a href="#">↓</a>
788-166	20.02.2019	docx 15.22 KB	<a href="#">↓</a>

## CAD/CAE-Data

CAD data
2D/3D Models 788-166 <a href="#">↓</a>

CAE data
WSCAD Universe 788-166 <a href="#">↓</a>

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Socket

##### 1.1.1.1 Socket without relay



**Item No.: [788-100](#)**

Relay socket; 1 changeover contact; for 15 mm basic relays; gray