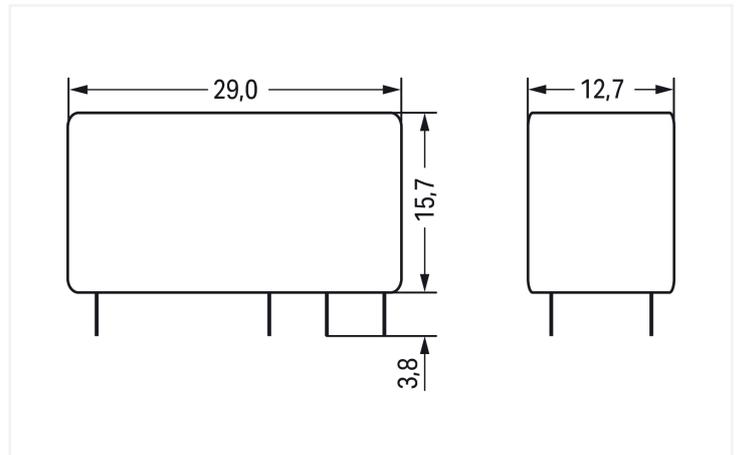
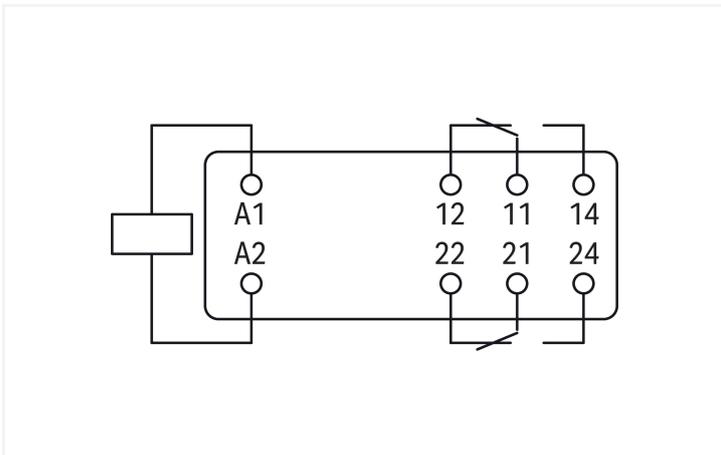


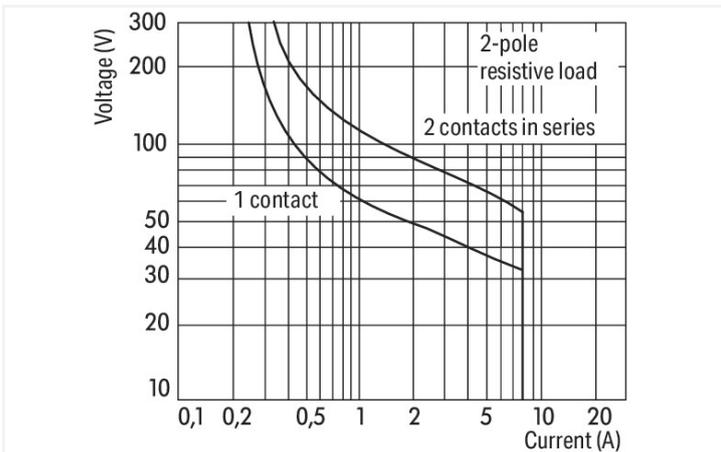
# Data Sheet | Item Number: 788-180

Basic relay; Nominal input voltage: 230 VAC; 2 changeover contacts; Limiting continuous current: 8 A; Module width: 13 mm; Module height: 15 mm

<https://www.wago.com/788-180>



Dimensions in mm



DC load limit curve

## Technical data

### Control circuit

|                                |         |
|--------------------------------|---------|
| Nominal input voltage $U_N$    | 230 VAC |
| Nominal input current at $U_N$ | 8 mA    |

### Load circuit

|  |  |
|--|--|
| Number of changeover/switchover contacts     | 2  |
| Contact material (relay)                     | AgNi 90/10                                   |
| Limiting continuous current                  | 8 A  |
| Inrush current (resistive) max.              | (AC) 15 A / 4 s                              |
| Switching Voltage, Max.                      | 250 VAC                                      |
| Switching power (resistive) max.             | AC 2000 VA; DC (see load limit curve)        |
| Switching capacity                           | AC-15: 3 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.)                           | 10 ms  |
| Electrical life (NO; resistive load; 23 °C)  | 10 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   |
| Dielectric strength (load/load circuit) (AC, 1 min)    | 2.5 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 |
|---------------|------------------|

## Material data

|                      |  |
|----------------------|--|
| Note (material data) | <a href="#">Information on material specifications can be found here</a> |
| Fire load            | 0.194 MJ   |
| Weight               | 12.9 g   |

## Environmental requirements

|   |                |
|---|----------------|
| Ambient temperature (operation at $U_N$ ) | -40 ... +70 °C |
| Ambient temperature (storage)             | -40 ... +85 °C |

## Standards and specifications

|                          |            |
|--------------------------|------------|
| Standards/specifications | EN 61810-1 |
|--------------------------|------------|

## Commercial data

|                       |                          |
|-----------------------|--------------------------|
| Product Group         | 6 (INTERFACE ELECTRONIC) |
| PU (SPU)              | 20 pcs                   |
| Packaging type        | Box                      |
| Country of origin     | DE                       |
| GTIN                  | 4050821867920            |
| 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<br>7440-43-9               |
| REACH Candidate List Substance            | Cadmium<br>Lead                      |
| RoHS Compliance Status                    | Compliant, No Exemption              |
| SCIP notification number (Austria)        | 42ca39fd-429e-489d-af30-b5c2a05c93da |
| SCIP notification number (Belgium)        | 31db0a7c-ac58-4b0b-8351-e3fce40969e3 |
| SCIP notification number (Bulgaria)       | 270661c3-27b8-4e4b-88ab-4dc2f2ac4ec7 |
| SCIP notification number (Czech Republic) | 8959a965-5a96-4dd0-bd42-d9c1a53b570c |
| SCIP notification number (Denmark)        | f7ebfe1b-ad59-4f4f-97a9-072c43e4aae0 |
| SCIP notification number (Finland)        | 74f9c2eb-619a-4ae9-9f3c-7ebdc2f3bddb |
| SCIP notification number (France)         | deefb450-543e-4ffa-8aab-0bc553dd3b27 |
| SCIP notification number (Germany)        | 238e1246-552c-4516-a1e6-1a6ad3e687b2 |
| SCIP notification number (Hungary)        | dc05eb0b-5c6f-4d3b-b61f-c3b4daf2b11a |
| SCIP notification number (Italy)          | 49ae42ad-66ac-4669-8dc8-2251db5f0fbe |
| SCIP notification number (Netherlands)    | a4a3752e-ff44-4326-b8bb-06c0c1a3a5de |
| SCIP notification number (Poland)         | ecc379b3-37ba-4f24-88e6-73c6514ed487 |
| SCIP notification number (Romania)        | fc664087-ef1f-43da-88fe-e664f6def4b6 |
| SCIP notification number (Sweden)         | 25232a5d-eff1-43ae-806e-e106da0cc06a |

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product  
Compliance 788-180



## Documentation

| Bid Text |            |                  |                   |
|----------|------------|------------------|-------------------|
| 788-180  | 19.02.2019 | xml<br>3.59 KB   | <a href="#">↓</a> |
| 788-180  | 20.02.2019 | docx<br>15.49 KB | <a href="#">↓</a> |

## CAD/CAE-Data

| CAD data                               |
|--|
| 2D/3D Models 788-180 <a href="#">↓</a> |

| CAE data                                    |
|---|
| WSCAD Universe<br>788-180 <a href="#">↓</a> |

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Socket

##### 1.1.1.1 Socket without relay



**Item No.: 788-102**  
Relay socket; 2 changeover contacts; for 15 mm basic relays; gray