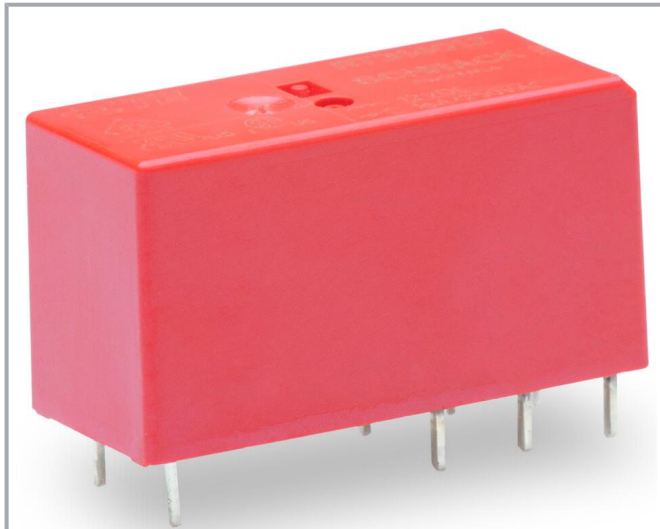


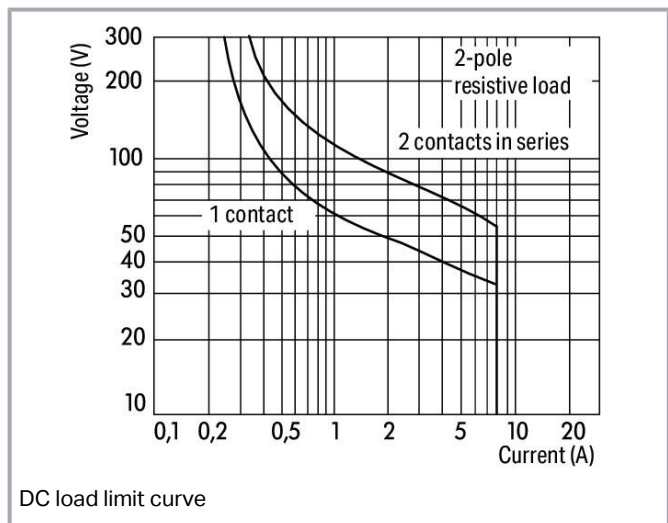
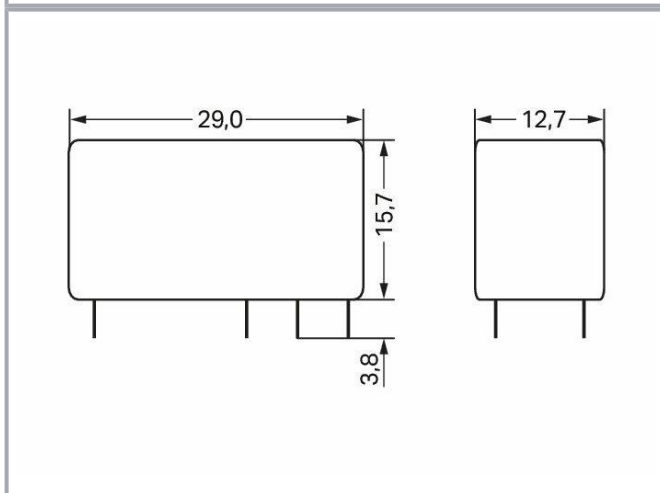
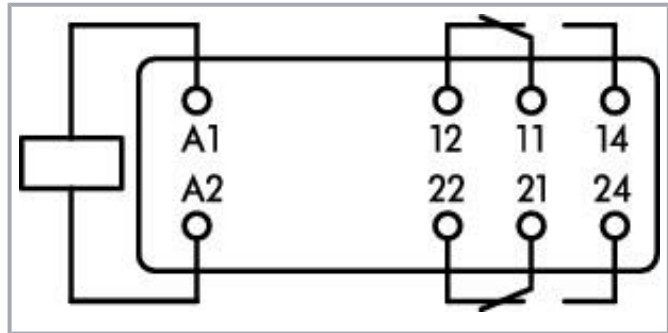
## Data sheet | Item number: 788-180

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

[www.wago.com/788-180](http://www.wago.com/788-180)



 Picture differs from the item.



## Data

### Technical data

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

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## Control circuit

|                                |          |
|--------------------------------|----------|
| Nominal input voltage $U_N$    | AC 230 V |
| 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.)                     | AC 250 V                                     |
| Switching power (resistive) max.             | AC 2000 VA; DC (see load limit curve)        |
| Switching capacity                           | AC-15: 3 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.)                           | 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 |
| Protection type                                        | IP40      |

## 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

|           |          |
|-----------|----------|
| 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) |
| eCl@ss 10.0           | 27-37-16-01              |
| eCl@ss 9.0            | 27-37-16-01              |
| ETIM 8.0              | EC001437                 |
| ETIM 7.0              | EC001437                 |
| PU (SPU)              | 20 pcs                   |
| Packaging type        | box                      |
| Country of origin     | DE                       |
| GTIN                  | 4050821867920            |
| 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)        | 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 |

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|                                        |                                      |
|----------------------------------------|--------------------------------------|
| 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 |

## Optional accessories

### Sockets

|                                                                                  |                                                                                               |                                                                |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Socket without relay                                                             |                                                                                               |                                                                |
|  | <b>Item no.: 788-102</b><br>Relay socket; 2 changeover contacts; for 15 mm basic relays; gray | <a href="http://www.wago.com/788-102">www.wago.com/788-102</a> |

## Downloads

### Documentation

#### Bid Text

|              |             |         |          |
|--------------|-------------|---------|----------|
| 788-180      | 2019 Feb 20 | docx    | Download |
| docx - Datei |             | 15.9 kB |          |
| 788-180      | 2019 Feb 19 | xml     | Download |
| X81 - Datei  |             | 3.7 kB  |          |

#### Additional Information

|                                                           |             |        |          |
|-----------------------------------------------------------|-------------|--------|----------|
| Disposal and Recycling                                    | V 1.1.0     | pdf    | Download |
| Electrical and electronic equipment, Batteries, Packaging | 2022 Aug 18 | 2.2 MB |          |

## CAD/CAE-Data

### CAE data

|                        |     |          |
|------------------------|-----|----------|
| WSCAD Universe 788-180 | URL | Download |
|------------------------|-----|----------|

### CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 788-180 | URL | Download |
|----------------------|-----|----------|

### Asset Administration Shell

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

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|                                    |                     |                          |
|------------------------------------|---------------------|--------------------------|
| Asset Administration Shell 788-180 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------------|---------------------|--------------------------|

Environmental Product Compliance

Compliance Search

|                                                                                                                                                 |                     |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|
| Environmental Product Compliance 788-180                                                                                                        | <a href="#">URL</a> | <a href="#">Download</a> |
| Basic relay; Nominal input voltage: 230 VAC; 2 changeover contacts; Limiting continuous current: 8 A; Module width: 13 mm; Module height: 15 mm |                     |                          |

Installation Notes

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