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## Item description

### Short description:

WAGO 788 Series Pluggable Relay Modules are an excellent platform for industrial and process automation switching relay applications with pluggable miniature switching relays (1 or 2 changeover contacts).

A compact design is just one of the 788 Series' unique and highly beneficial features.

A robust, easy-to-use lever lifts/ejects relays, simplifying replacement – even if relay modules are side-by-side.

For flexibility and the reduction of part numbers, the 788 Series can be ordered as: a fully equipped relay module, a relay and LED for switching status indication, or as individual components.

### Note:

- Reinforced insulation between coil and contacts
- 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.
- To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

## Data

### Technical Data

**Control circuit**

|                                |            |
|--------------------------------|------------|
| Nominal input voltage $U_N$    | 24 VDC     |
| Input voltage range            | $\pm 10\%$ |
| Nominal input current at $U_N$ | 19.1 mA    |

**Load circuit:**

|   |   |
|---|---|
| Number of changeover/switchover contacts      | 1   |
| Contact material                              | AgNi 90/10  |
| Limiting continuous current                   | 16 A  |
| Max. make current (resistive)                 | 4 Make current (resistive) duration 30 A (AC)                           |
| Max. switching voltage                        | 250 VAC   |
| Max. switching power (resistive)              | 4000 VAAC; 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 (N.O.; resistive load; 23 °C) | $30 \times 10^3$ switching operations                                   |
| Mechanical life (N.O.; resistive load; 23 °C) | $30 \times 10^6$ switching operations                                   |
| Max. switching load with load/without load    | 6 Max. switching load with load / 1200 Max. switching load without load |

**Signaling**

|                   |         |
|-------------------|---------|
| Status indication | LED red |
|-------------------|---------|

**Safety and protection:**

|   |                             |
|---|-----------------------------|
| Rated voltage   | 250 V                       |
| Rated impulse voltage                                 | 4 kV                        |
| Pollution degree                                      | 3                           |
| Dielectric strength, control/load circuit (AC, 1 min) | $5 \text{ kV}_{\text{rms}}$ |
| Dielectric strength, control/load circuit (AC, 1 min) | $5 \text{ kV}_{\text{rms}}$ |
| Dielectric strength open contact (AC, 1 min)          | $1 \text{ kV}_{\text{rms}}$ |
| Dielectric strength open contact (AC, 1 min)          | $1 \text{ kV}_{\text{rms}}$ |
| Degree of protection                                  | IP20                        |



### Connection data

|                         |  |
|-------------------------|--|
| Connection technology   | Push-in CAGE CLAMP®                          |
| Solid conductor         | 0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG |
| Fine-stranded conductor | 0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 Inch             |

### Geometrical Data

|                                       |                  |
|---------------------------------------|------------------|
| Width                                 | 15 mm / 0.591 in |
| Height from upper-edge of DIN-35 rail | 54 mm / 2.126 in |
| Depth                                 | 86 mm / 3.386 in |

### Mechanical data

|                  |             |
|------------------|-------------|
| Type of mounting | DIN-35 rail |
|------------------|-------------|

### Material Data

|           |          |
|-----------|----------|
| Color     | gray     |
| Fire load | 0.915 MJ |
| Weight    | 45.918 g |

### Environmental Requirements

|   |               |
|---|---------------|
| Permissible surrounding air (operating) temperature at U <sub>N</sub> | -25 ... 50 °C |
| Surrounding air (storage) temperature                                 | -40 ... 70 °C |
| Pollution degree  | 3             |

### Standards and specifications

|                          |  |
|--------------------------|--|
| Standards/specifications | EN 61010-2-201; EN 61810-1; EN 61373; UL 508 (max. 10 A) |
|--------------------------|--|

### Elementary relay

|                       |         |
|-----------------------|---------|
| WAGO elementary relay | 788-154 |
|-----------------------|---------|

### Commercial data

|                   |                           |
|-------------------|---------------------------|
| Country of Origin | CN                        |
| GTIN              | 4055143184113             |
| Product Group     | 6 (Interface Electronics) |



## UL-Approvals

| Logo | Approval  | Certificate name |
|------|---|------------------|
|      | <b>UL</b><br>UL International Netherlands B.V. (ORDINARY LOCATIONS) | E175199 Sec.6    |

Subject to changes.

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