

**Data sheet | Item number: 857-152**

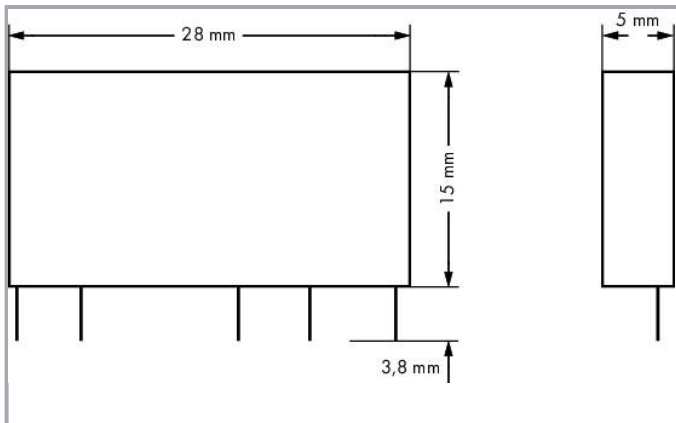
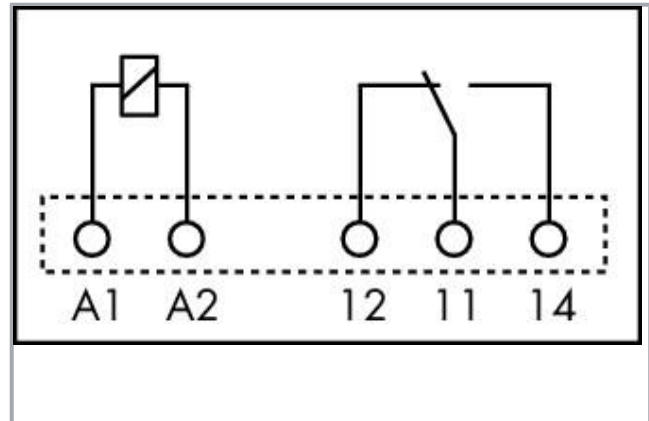
Basic relay; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Module width: 5 mm; Module height: 15 mm



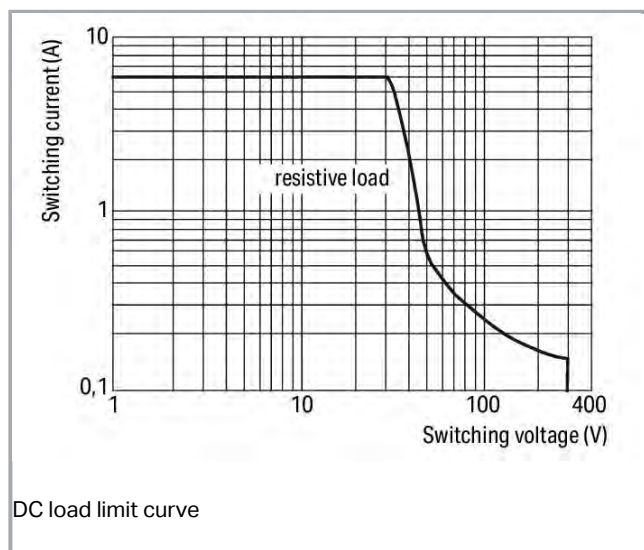
Similar to picture

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## Item description

### Note:

- The 60 VDC basic relay must be used for 60 VDC, 110 VDC, 220 VDC and 115 VAC/DC, 230 VAC/DC relay modules.
- To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.
- 30 VDC switching voltages and 50 mA currents must not be exceeded for gold-plated basic relays. Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce service life.

## Data

### Technical Data

### Control circuit

|                             |         |
|-----------------------------|---------|
| Nominal input voltage $U_N$ | DC 24 V |
|-----------------------------|---------|

### Load circuit:

|  |   |
|--|---|
| Number of changeover/switchover contacts | 1   |
| Contact material (relay)                 | AgSnO <sub>2</sub>                          |
| Limiting continuous current              | 6 A   |
| Inrush current (resistive) (max.)        | (AC) 20 A / 0,02 s                          |
| Switching voltage (max.)                 | AC 250 V                                    |
| Switching power (resistive) (max.)       | AC 1500 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                 | 10 V / 10 mA; 24 V / 1 mA                   |

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|  |   |
|--|---|
| Pull-in time (typ.)                          | 8 ms  |
| Drop-out time (typ.)                         | 4 ms  |
| Bounce time (typ.)                           | 3.5 ms                                      |
| Electrical life (NO; resistive load; 23 °C)  | 50 x 10 <sup>3</sup> switching operations   |
| Mechanical life                              | 5 x 10 <sup>6</sup> switching operations    |
| Switching frequency with/without load (max.) | 6 min <sup>-1</sup> / 180 min <sup>-1</sup> |

#### Safety and protection:

|   |         |
|---|---------|
| Dielectric strength, control/load circuit (AC, 1 min) | 4 kVrms |
| Dielectric strength, open contact (AC, 1 min)         | 1 kVrms |
| Protection type                                       | IP20    |

#### Geometrical Data

|                         |                    |
|-------------------------|--------------------|
| Width                   | 5 mm / 0.197 inch  |
| Height from the surface | 15 mm / 0.591 inch |
| Depth                   | 28 mm / 1.09 inch  |

#### Mechanical data

|               |                  |
|---------------|------------------|
| Mounting type | Pluggable module |
|---------------|------------------|

#### Material Data

|        |       |
|--------|-------|
| Weight | 6.5 g |
|--------|-------|

#### Environmental Requirements

|  |               |
|--|---------------|
| Surrounding air temperature (operation at U <sub>N</sub> ) | -40 ... 85 °C |
| Surrounding air temperature (storage)                      | -40 ... 85 °C |

#### Standards and specifications

|                          |                               |
|--------------------------|-------------------------------|
| Standards/specifications | EN 61810-1, EN 61373; VDE, UR |
|--------------------------|-------------------------------|

#### Commercial data


|                   |                           |
|-------------------|---------------------------|
| Product Group     | 6 (Interface Electronics) |
| Packaging type    | BOX                       |
| Country of origin | DE                        |

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

|                       |               |
|-----------------------|---------------|
| GTIN                  | 4045454550998 |
| Customs tariff number | 85364900990   |

## Approvals / Certificates

### UL-Approvals

| Logo   | Approval                             | Additional Approval Text | Certificate name |
|--|--------------------------------------|--------------------------|------------------|
|  | UL<br>Underwriters Laboratories Inc. | UL 508                   | E340707          |

## Counterpart

## Compatible products

### General accessories



Item no.: 857-104

Relay socket; Nominal input voltage: 24 V AC/DC; for 5 mm basic relays; Yellow status indicator

## Downloads

### Documentation

#### Additional Information

Disposal; Electrical and electronic equipment, Packaging V 1.0.0

## CAD/CAE-Data

### CAE data

EPLAN Data Portal 857-152

WSCAD Universe 857-152

## Installation Notes

### Installation

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



Operation of the relay ejector

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