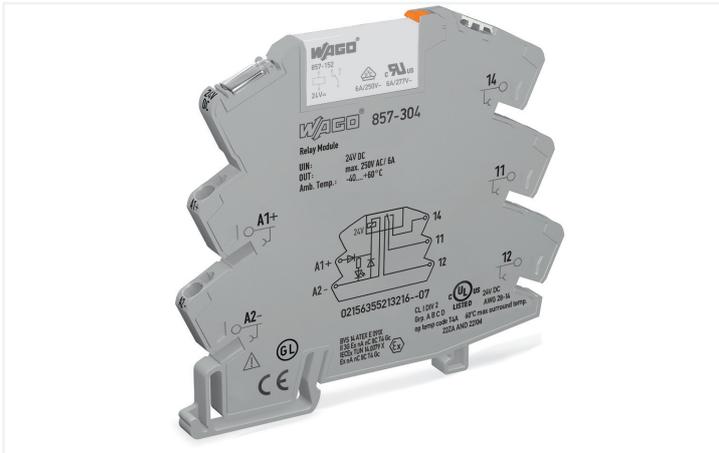


# Data Sheet | Item Number: 857-304

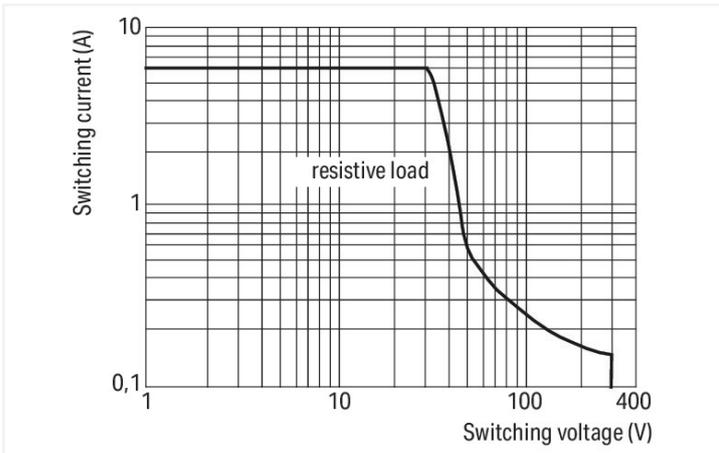
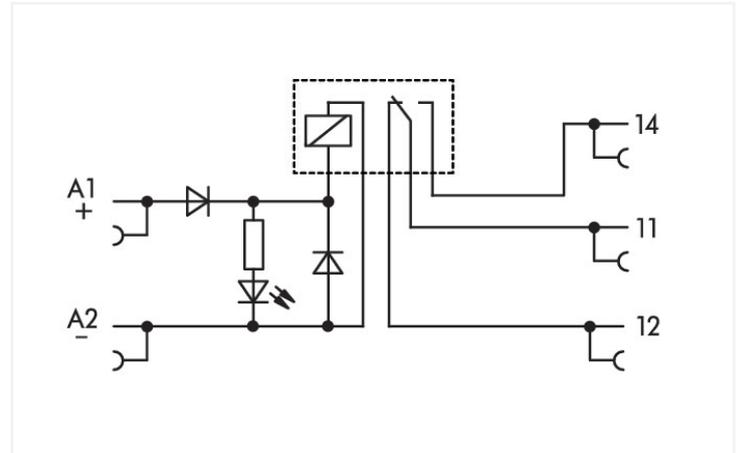
Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Yellow status indicator; Module width: 6 mm; 2,50 mm<sup>2</sup>; gray



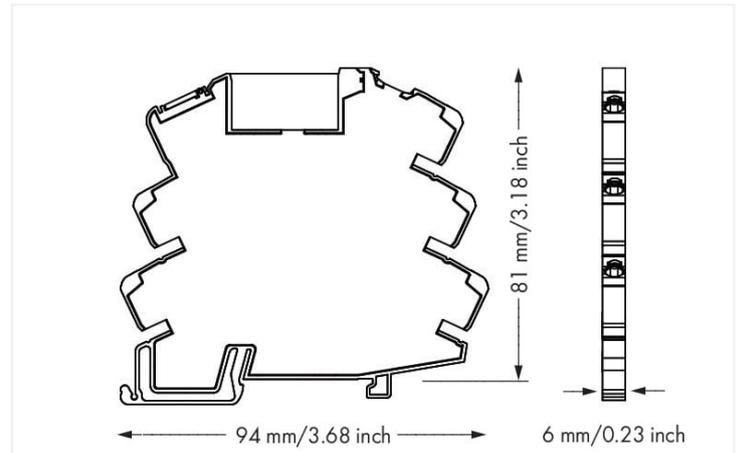
<https://www.wago.com/857-304>



Color: ■ gray



DC load limit curve



Dimensions in mm

## Notes

### Safety information

Adjacent devices are devices of the same design (series) that are arranged next to each other with the same orientation on the mounting rail. An end stop (249-116) must be fitted to devices of other types for compliance with the reinforced insulation requirements.

### Note

To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

## Technical data

### Control circuit

|                                |               |
|--------------------------------|---------------|
| Nominal input voltage $U_N$    | DC 24 V       |
| Input voltage range            | -15 ... +20 % |
| Nominal input current at $U_N$ | 10 mA         |

### 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                   |
| Pull-in time (typ.)                      | 6 ms  |
| Drop-out time (typ.)                     | 6 ms  |

### Load circuit

|  |   |
|--|---|
| 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> |

### Signaling

|                  |            |
|------------------|------------|
| Status indicator | Yellow LED |
|------------------|------------|

### Safety and protection

|   |  |
|---|--|
| Rated voltage   | 300 V  |
| Rated surge voltage   | 4 kV   |
| Type of circuits  | Mains circuits   |
| Overvoltage category  | III  |
| Pollution degree  | 2  |
| Dielectric strength (control/load circuit) (AC, 1 min)      | 3.51 kVrms   |
| Dielectric strength (open contact) (AC, 1 min)              | 1 kVrms  |
| Insulation type (control/load circuit)                      | Reinforced insulation (safe isolation)   |
| Insulation type (between adjacent devices of the same type) | Double insulation (safe isolation)   |
| Insulation type (to adjacent devices of different types)    | Basic insulation   |
| Safety information  | Adjacent devices are devices of the same design (series) that are arranged next to each other with the same orientation on the mounting rail. An end stop (249-116) must be fitted to devices of other types for compliance with the reinforced insulation requirements. |
| Protection type   | 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 |
| Fine-stranded conductor; with insulated ferrule | 0.34 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG |
| Strip length                                    | 9 ... 10 mm / 0.35 ... 0.39 inches           |

### Physical data

|                                   |                      |
|-----------------------------------|----------------------|
| Width                             | 6 mm / 0.236 inches  |
| Height                            | 94 mm / 3.701 inches |
| Depth from upper-edge of DIN-rail | 81 mm / 3.189 inches |

### Mechanical data

|                   |                                       |
|-------------------|---------------------------------------|
| Mounting type     | DIN-35 rail                           |
| Mounting position | horizontal (standing/lying); vertical |

### Material data

|           |         |
|-----------|---------|
| Color     | gray    |
| Fire load | 0.69 MJ |
| Weight    | 31.6 g  |

### Environmental requirements

|   |  |
|---|--|
| Ambient temperature (operation at $U_N$ ) | -40 ... +60 °C                             |
| Ambient temperature (storage)             | -40 ... +70 °C                             |
| Processing temperature                    | -25 ... +50 °C                             |
| Temperature range of connection cable     | $\geq (T_{\text{ambient}} + 30 \text{ K})$ |
| Relative humidity                         | 5 ... 85 % (no condensation permissible)   |
| Operating altitude (max.)                 | 2000 m                                     |

### Standards and specifications

|                          |   |
|--------------------------|---|
| Standards/specifications | EN 61010-2-201<br>EN 61810-1<br>EN 61373<br>UL 508<br>ATEX<br>IEC Ex<br>DNV |
|--------------------------|---|

### Basic relay

|                  |         |
|------------------|---------|
| WAGO Basic Relay | 857-152 |
|------------------|---------|

### 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)              | 25 (1) pcs               |
| Packaging type        | Box                      |
| Country of origin     | CN                       |
| GTIN                  | 4050821797807            |
| Customs tariff number | 85364900990              |

### Environmental Product Compliance

|   |                                       |
|---|---------------------------------------|
| CAS-No.                                   | 7439-92-1<br>79-94-7                  |
| REACH Candidate List Substance            | Lead<br>Tetrabromobisphenol A (TBBPA) |
| RoHS Exemption                            | 7(a)<br>7(c)-I<br>7(c)-II             |
| SCIP notification number (Bulgaria)       | eef0664d-a21b-433f-afc4-ab42515ee6c3  |
| SCIP notification number (Czech Republic) | 8aa3a726-fc3a-498a-9b94-2bf6b05022fd  |