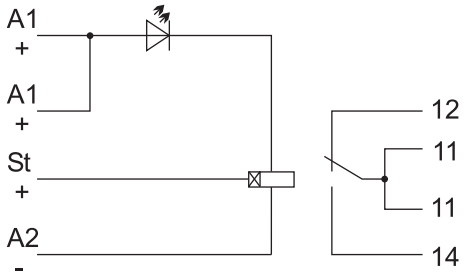
# Pluggable Module - Multifunction Timing Relay



Front-entry , 1 changeover contact

**Data sheet**

Photo similar




| Description | Item-No. | Pack.-unit pcs |
|---|---|---|
| Multifunction timing relay, 4 selectable time ranges, 4 functions | 286-641 | 1 |

- Multifunction timing relay module 1 changeover contact,
  on delay,
  off delay with auxiliary voltage,
  pulsing in make position,
  flashing,
  4 time ranges: 1...8 s, 5...30 s, 25...250 s, 180...1800s
  function and time ranges are selected with a 4-pole DIL switch.
- Extended input voltage and temperature range for railway applications.
- Installation on terminal block for pluggable module.

The relay modules meet the requirements for an extended input voltage and temperature range in accordance with DIN EN 50155 / VDE 0115 part 200 / 5.96, “Railway applications. Electronical traction equipment”.
They can be used on vehicles operated with alternating current having a supply from the catenary via a transformer with battery charger and battery. The constant deviation from the operating voltage can, in this case, vary between –30 % and +25 %.
The temperature range extended to 70 °C corresponds to the maximum air temperature range in inner rooms of vehicles and housings located unprotected in the open air.

## Technical Data

| | |
|---|---|
| Input nominal voltage $U_N$ | DC 24 V |
| Input voltage range | $U_N$ –30 %...+25 % |
| Current input at $U_N$ | |
| active | 24 mA |
| inactive | 4.7 mA |
| Contact material | AgNi 90/10 |
| Nominal voltage | AC 250 V |
| Max. breaking voltage | AC 440 V / DC 300 V |
| Max. continuous current | 5 A |
| Max. breaking power | AC 1250 VA |
| (resistive) | DC see load limiting value graph |
| Bounce time$_{typ}$(make/break) | 1 ms / 5 ms |
| Reset time | 100 ms |
| Repeat accuracy | ±1 % |
| Dielectric strength | |
| contact/ coil | 2,5 kV |
| Open contact | 1 kV |
| Surge voltage strength | |
| contact/ coil (1.2 / 50 µs) | 4 kV |
| Mechanical service life | 1.5 x $10^7$ switching operations |
| at max.load (resistive) | 1 x $10^5$ switching operations |
| Ambient operating temperature | -25 °C...+70 °C |
| Storage temperature | -40 °C...+70 °C |
| Module dimensions (W x H) | (20 x 82.5*) mm / (0.787 x 3.25*) in<br>* from upper edge of DIN 35 rail |

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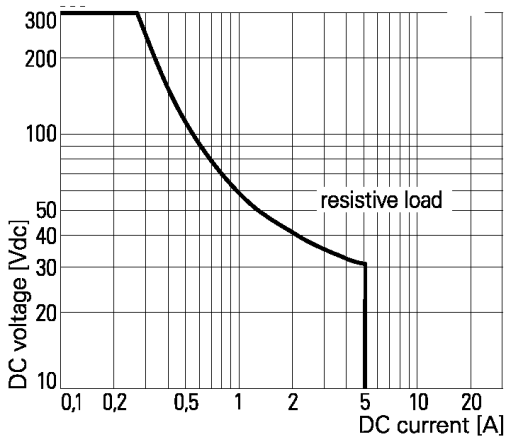
**Data sheet**

DC-Load limiting value graph




S1 S2

| | | |
|---|---|---|
| OFF<br>ON |  | flashing |
| OFF<br>ON |  | on-delay |
| OFF<br>ON |  | pulsing |
| OFF<br>ON |  | off-delay with aux. voltage |

S3 S4

| | | |
|---|---|---|
| OFF<br>ON |  | 25 s...250 s |
| OFF<br>ON |  | 5 s...30 s |
| OFF<br>ON |  | 1 s...8 s |
| OFF<br>ON |  | 180 s...1800 s |

| Switch position / Function | | |
|---|---|---|
| S1 | S2 | |
| ON | ON | flashing |
| ON | OFF | on-delay |
| OFF | ON | pulsing |
| OFF | OFF | off-delay |

| Switch position / Time range | | |
|---|---|---|
| S3 | S4 | |
| ON | ON | 25...250 s |
| ON | OFF | 5...30 s |
| OFF | ON | 1...8 s |
| OFF | OFF | 180...1800 s |

**Note:** Inductive loads have to be attenuated by an appropriate protective circuit in order to protect relay coils and contacts!

| | |
|---|---|
| Standards / prescriptions | DIN VDE 0115 Part 200 |
| | DIN VDE 0160 and IEC 60255 |
| | DIN VDE 0435 (corresponding parts) |
| | DIN EN 50155 |
| Accessories | |
| Terminal block | 280-628 |
| Dimensions (W x D) | (22 x 73) mm / (0.866 x 2.874) in |

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