**AM3**

**Time relay with 2 changeover output contacts**, one of them selectable as instantaneous contact 4 time functions, 0.5 s … 60 minutes DIN Rail mounting according to DIN 43 880

**Type:** AM3/ ... V

- Multifunction time relay, 2 CO contacts, 1 contact selectable as instantaneously or delayed,
- 4 time functions and ON function, time ranges: 0.5 s … 60 minutes, LED state indicators for output and control input

<table>
<thead>
<tr>
<th>Maximum contact load</th>
<th>10 A / 250 V AC-1</th>
<th>10 A / 30 V DC-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended minimum contact load</td>
<td>100 mA / 5 V</td>
<td></td>
</tr>
</tbody>
</table>

**Time functions and related connection diagrams** (Function diagrams: refer to page 130)

- Selection of the operation mode of the second CO contact: DIP-switch:
  - R2 = S: Instantaneously, R2 = R: Delayed.

**Time data**

- Partial time ranges, \( t_{\text{max}} \) (DIP switch) 6, 60 s / 6, 60 min
- Fine adjustment range (rotary knob) \( t_{\text{min}} \) … \( t_{\text{max}} \), 0.5 s … 6
- Time range tolerance \( t_{\text{min}} \): -30 % … +0 % / \( t_{\text{max}} \): -0 % … +30 %
- Repetition accuracy \( \pm 0.25 \% \) or 20 ms
- Response time, power on, on A1 ≤ 50 ms
- Min. trigger pulse on B1 100 ms (AC / DC)
- Reset time B1 (AC/DC) ≤ 90 ms
- Voltage failure buffering ≥ 3 ms

**Contacts**

- Type / Material: 2 CO, micro disconnection / AgNi
- Rated operational current: 10 A
- Sum current of both contacts: 12 A @ \( Ta = 45 \ ^\circ \text{C} \) 100 % duty cycle
- Max. inrush current (20 ms): 16 A
- Max. switching voltage AC-1: 250 V
- Max. AC load AC-1: 2500 VA
- Max. DC load DC-1, 30 V / 100 V (Fig. 2) 300 W / 60 W

**Power supply- and control input**

- Nominal voltage (UC = AC / DC): UC 24 - 60 V
  - 19 ... 75 V
- Operating voltage range: ≤ 1.8 W
- Power consumption: 40 ... 400 Hz
- Frequency range: ≤ 20 mA (50 mA)
- Input current into B1 typ.: Allowed residual current into B1 ≤ 1.5 mA
- Target threshold voltage on B1 typ AC / DC: 14 / 17 V

**Insulation**

- Test voltage open contact: 1 kVrms 1 minute
- Test voltage between contacts and control input: 2 kVrms 1 minute

**General Specifications**

- Ambient temperature storage / operation: -40 ... +80 °C / -40 ... +50 °C
- Mechanical life of contact: 107 operations
- Conductor cross section: Stranded wire 2.5 mm², 2 x 1.5 mm²
- Ingress protection degree: IP 20
- Max. Screw torque: 0.4 Nm
- Housing material / Weight: Lexan / 110 g

**Standard types**

- UC (AC/DC) 40...400 Hz
  - AM3/UC24-60V R
- AC 50 / 60 Hz
  - AM3/AC220 -240V R