

## AM2

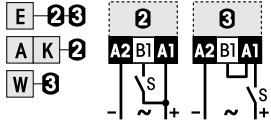
**Time relay with 1 changeover power contact**  
**4 time functions, 0.5 s ... 60 minutes**  
**DIN Rail mounting according to DIN 43 880**

### Type: AM2/ ... V

Multifunction time relay, 1 CO contacts, 4 time functions and ON function, time ranges: 0.5 s ... 60 minutes, LED state indicator for output, also suitable for panel mounting 2 x M4

|                                         |                        |                      |
|-----------------------------------------|------------------------|----------------------|
| <b>Maximum contact load</b>             | <b>10 A 250 V AC-1</b> | <b>6 A 25 V DC-1</b> |
| <b>Recommended minimum contact load</b> | <b>100 mA / 12 V</b>   |                      |

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



### Time data

|                                               |                                                         |
|-----------------------------------------------|---------------------------------------------------------|
| 4 partial time ranges, $t_{max}$ (DIP switch) | 6, 60 s / 6, 60 min                                     |
| Fine adjustment range (rotary knob)           | $t_{min} \dots t_{max}$ , 0.5 ... 6                     |
| Time range tolerance                          | $t_{min}$ : -30 % ... +0 % / $t_{max}$ : -0 % ... +30 % |
| Repetition accuracy                           | $\pm 0.2$ % or 20 ms                                    |
| Response time, power on, on A1                | $\leq 50$ ms                                            |
| Min. trigger pulse width on input B1          | 100 ms (AC / DC)                                        |
| Reset time B1 (AC/DC)                         | $\leq 90$ ms                                            |
| Voltage failure buffering                     | $\geq 5$ ms                                             |

### Contacts

|                                         |                                     |
|-----------------------------------------|-------------------------------------|
| Type                                    | Single contact, micro disconnection |
| Material                                | AgSnO <sub>2</sub>                  |
| Rated operational current               | 10 A                                |
| Max. inrush current (10ms)              | 16 A                                |
| Max. switching voltage AC-1             | 250 V                               |
| Max. AC load AC-1 (Fig. 1)              | 2500 VA AC-1                        |
| Max. DC load DC-1 24 V / 220 V (Fig. 2) | 150 W / 70 W                        |

### Power supply- and control input

|                                             | <b>UC 24 - 60 V</b>  | <b>AC 220 - 240 V</b> |
|---------------------------------------------|----------------------|-----------------------|
| Nominal voltage (UC = AC / DC)              | 20 ... 75 V          | 180 ... 265 V         |
| Operating voltage range                     | 20 ... 75 V          | 180 ... 265 V         |
| Power consumption                           | $\leq 1.5$ W         | $\leq 1.5$ W          |
| Frequency range                             | 40 ... 60 Hz         | 40 ... 60 Hz          |
| Input current into B1 typ.                  | $\leq 25$ mA (40 mA) | $\leq 10$ mA (15 mA)  |
| Allowed residual current into B1            | $\leq 1.5$ mA        | $\leq 1$ mA           |
| Trigger threshold voltage on B1 typ AC / DC | 14 / 17 V            | 140 V                 |

<sup>1)</sup> B1 can be used as power supply and control input, without A1. For func. E and W.  
The current is then higher, values in brackets.

### Insulation

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

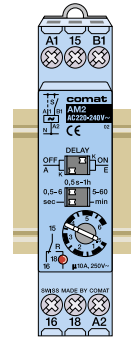
### General Specifications

|                                        |                                                             |
|----------------------------------------|-------------------------------------------------------------|
| Ambient temperature storage /operation | -40 ... 85 °C / -40 ... 60 °C                               |
| Mechanical life of contact             | 20 x 10 <sup>6</sup> operations                             |
| Conductor cross section                | Stranded wire 2.5 mm <sup>2</sup> , 2 x 1.5 mm <sup>2</sup> |
| Ingress protection degree              | IP 20                                                       |
| Max. Screw torque                      | 0.4 Nm                                                      |
| Housing material / Weight              | Lexan / 70 g                                                |

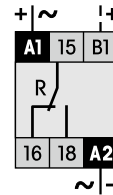
### Standard types

**UC (AC/DC) 40...60 Hz**

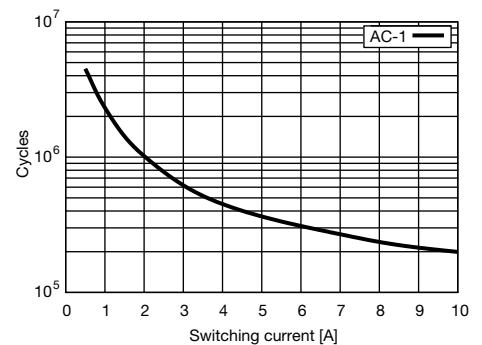
**AM2/UC24-60V R**  
**AM2/AC220-240V R**



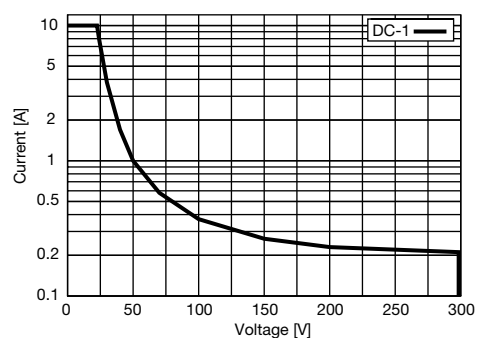
**Connection diagram**



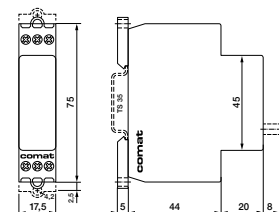
**Fig.1 AC voltage endurance**



**Fig. 2 DC load limit curve**



### Dimensions [mm]



### Technical approvals, conformities



EN 60947