

# CMD11-A/AC230V, CMD11-E/AC230V

## Monofunction Time Relay

On delay (E) or Off delay (A), 0.5 s ... 60 minutes

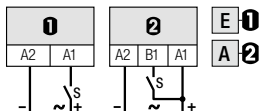
DIN Rail mounting according to DIN 43 880

### Type: CMD11-.../AC230V

The CMD is a cost-efficient timing relay supporting timing functions such as on-delay or off-delay and five time ranges from 50 ms to 60 minutes. It comes with an 8 A change-over contact and with four separate supplies (UC12V, UC24V, AC115V und AC230V). The output state is displayed by LED. The relay may be manually operated and blocked by ON/OFF switch.

<b>Maximum contact load</b>	<b>8 A 250 V AC-1</b>	<b>8 A 30 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 152)



### Time data

5 partial time ranges, $t_{max}$ (DIP switch)	0,6 s / 6 s / 60 s / 6 min / 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, CO
Material	AgNi
Rated operational current	10 A
Max. inrush current (10ms)	15 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

Nominal voltage	<b>CMD11-.../AC230V</b> 230 V AC
Operating voltage range	184 ... 255 V AC
Power consumption AC typ.	60 mA
Frequency range	48 ... 62 Hz
Input current into B1 typ. AC	1.9 mA
Trigger threshold voltage on B1 typ AC	80 V

### Insulation

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

### General Specifications

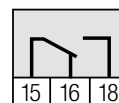
Ambient temperature storage /operation	-40 ... 85 °C / -40 ... 60 °C
Life time of contacts 8 A, 250 V AC-1	$75 \times 10^3$
Conductor cross section	Stranded wire 2.5 mm <sup>2</sup> , 2 x 1.5 mm <sup>2</sup>
Ingress protection degree	IP 20
Max. Screw torque	0.5 Nm
Housing material / Weight	Polyamide PA-66 (UL94-V0) / 48 g

### Standard types

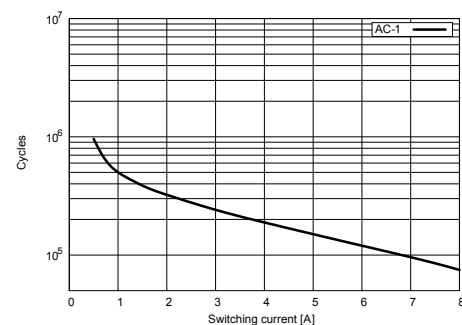
<b>Monofunction Time Relay (Off delay)</b>	<b>CMD11-A/AC230V</b>
<b>Monofunction Time Relay (On delay)</b>	<b>CMD11-E/AC230V</b>



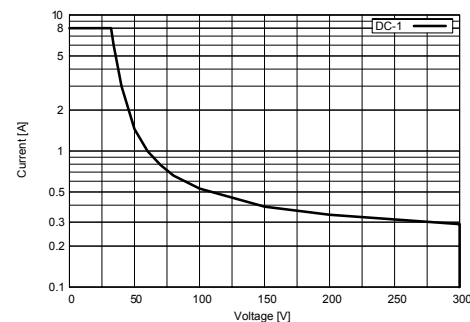
### Connection diagram



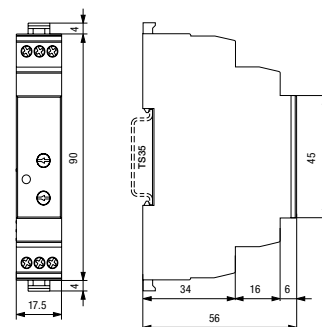
### Fig.1 AC voltage endurance



### Fig. 2 DC load limit curve



### Dimensions [mm]



### Technical approvals, conformities



EN 60947