

AM3

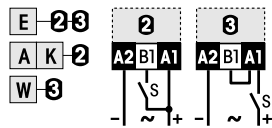
Time relay with 2 changeover output contacts, one of them selectable as instantaneous contact 4 time functions, 0.5 s ... 60 minutes DIN Rail mounting according to DIN 43 880

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

Maximum contact load	10 A / 250 V AC-1 10 A / 30 V DC-1
Recommended minimum contact load	100 mA / 5 V

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

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	± 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 @ $T_a = 45 \text{ °C}$, 100 % duty cycle
Max. inrush current (20 ms)	16 A
Max. switching voltage AC-1	250 V
Max. AC load AC-1 (Fig.1)	2500 VA
Max. DC load DC-1, 30 V / 100 V (Fig. 2)	300 W / 60 W

Power supply- and control input

	UC 24 - 60 V	AC 220 - 240 V
Nominal voltage (UC = AC / DC)	19 ... 75 V	195 ... 265 V
Operating voltage range	19 ... 75 V	195 ... 265 V
Power consumption	≤ 1.8 W	≤ 1.8 W
Frequency range	40 ... 400 Hz	40 ... 60 Hz
Input current into B1 typ.	≤ 20 mA (50 mA)	≤ 5 mA (15 mA)
Allowed residual current into B1	≤ 1.5 mA	≤ 1 mA
Trigger threshold voltage on B1 typ AC / DC	14 / 17 V	140 V

Insulation

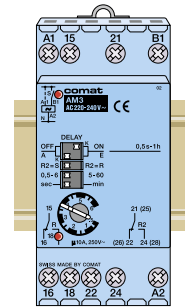
Test voltage open contact	1 kVrms 1 minute
Test voltage between contacts and control input	2 kVrms 1 minute

General Specifications

Ambient temperature storage /operation	-40 ... 80 °C / -40 ... 50 °C
Mechanical life of contact	10 ⁷ operations
Conductor cross section	Stranded wire 2.5 mm ² , 2 x 1.5 mm ²
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



Connection diagram

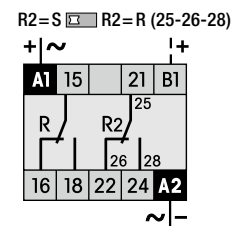


Fig.1 Contact endurance

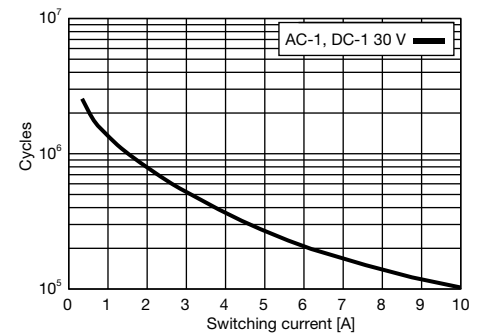
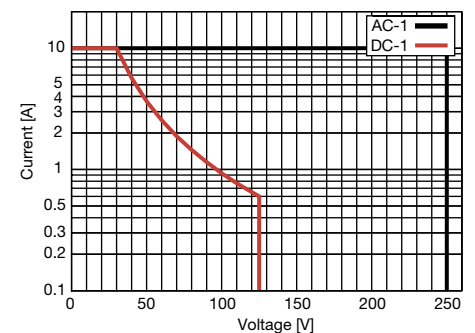
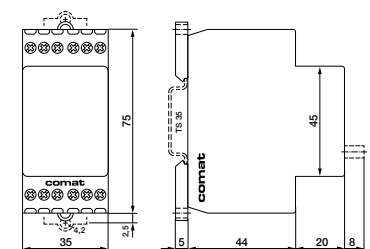


Fig. 2 Load limit curve



Dimensions [mm]



Technical approvals, conformities

