

CIM2, CIM2R (Railway)

**Time relay with mechanical changeover output contact
7 time functions and 7 time ranges from 50 ms ... 60 h,
DIN Rail mounting according to DIN 43 880**



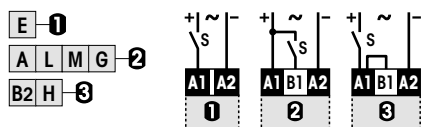
Type: CIM2/UC24-240V

Sophisticated multifunction time relay, 1 changeover power contact switching in zero crossing (50/60 Hz), 7 time functions and service function ON/OFF, 7 time ranges from 50 ms to 60 h, multifunction LED state indicator, suitable for any time-control application, light-switch neon lamp current absorption on input B1, manual switching function for maintenance, emergency, etc., 16.6 Hz power supply applications. Railway version available.

Maximum contact load 16 A / 250 V AC-1 384 W DC-1
Recommended minimum contact load 10 mA / 10 V

Time functions and related connection diagrams (Function diagrams: refer to page 152)

The functions are selectable by rotary switch



LED function table:

LED	Relay	Time run
OFF	OFF	NO
Continuous ON	ON	NO
Short blinking	OFF	YES
Long blinking	ON	YES

Time data

7 partial time ranges, t_{max} (rotary switch) 0.6, 6, 60 s / 6, 60 min / 6, 60 h
 Fine adjustment range (rotary knob) $t_{min} \dots t_{max}$, 0.5 ... 6
 Time range tolerance t_{min} : -5 % ... +0 % / t_{max} : -0 % ... +5 %
 Repetition accuracy ± 0.1 % or DC: 2 ms / AC: 10 ms
 Response time, power on, on A1 ≤ 45 ms
 Min. trigger pulse on B1 20 ms (AC / DC)
 Reset time B1 (AC/DC) ≤ 30 ms
 Voltage failure buffering (50 / 60 Hz) ≥ 20 ms

Contacts

Material CIM2 / CIM2R / Type AgNi / 1 CO, micro disconnection
 Rated operational current at 40 °C / 60 °C 16 A / 13 A
 Max. inrush current 30 A
 Max. switching voltage AC-1 250 V
 Max. AC load AC-1 (Fig.1) 4 kVA
 Max. DC load DC-1 30 V / 250 V (Fig.2) 240 W / 85 W

Power supply- and control input

Nominal voltage (A1, B1) **UC 24-240 V (UC = AC / DC)**
 Operating voltage range UC 19 ... 250 V
 Power consumption approx. 1 W
 Frequency range 15 ... 60 Hz
 Allowed DC residual current into B1 ≤ 0.5 mA
 AC Neon lamp residual current into B1 ≤ 10 mA
 Trigger threshold voltage on B1, AC / DC 15 / 17 V

Insulation

Test voltage open contact 1 kVrms 1 minute
 Test voltage between contacts and control input 2.5 kVrms 1 minute

General Specifications

Ambient temperature storage /operation -40 ... 85 °C / -40 ... 60 °C (Railway: -46 °C)
 Mechanical life of contact 30×10^6 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 / 70 g

Standard types

**UC (AC/DC) 15...60 Hz
Railway**

**CIM2/UC24-240V
CIM2R/UC24-240V**



Connection diagram

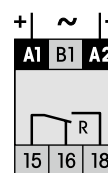


Fig.1 AC voltage endurance

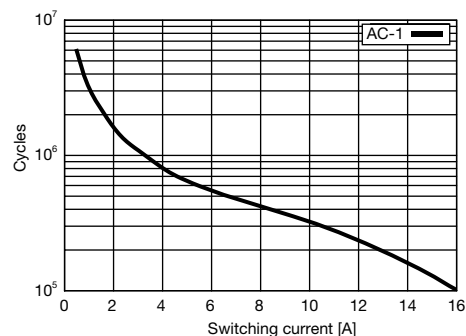
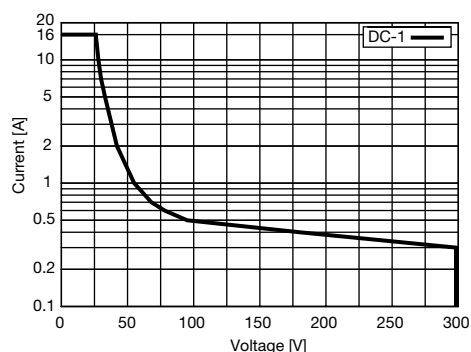
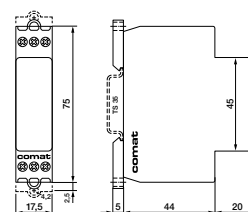


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

EN 50155, EN 60730

