CIM12, CIM12R (Railway)

Time relay with AC solid-state output 8 time functions and stepping function, ON-OFF switch, 50 ms ... 60 h, DIN Rail mounting according to DIN 43 880





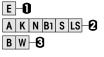
Type: CIM12/UC24-240V

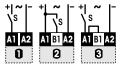
Sophisticated multifunction time relay, 1 triac output, suitable for high frequency of operations and inductive loads, 8 time functions, stepping function and service function ON/OFF, time ranges: 50 ms ... 60 h, multifunction LED state indicator, suitable for any time-control application and also staircase lighting, Light-switch neon lamp current absorption on input B1, manual switching function for maintenance, emergency, etc., 16.6 Hz applications. Railway version available.

2 A / 250 V Maximum contact load Minimum contact load 50 mA

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

The functions are selectable by rotary switch





LED	funct	ion	tab	le:

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) Fine adjustment range (rotary knob)

Time range tolerance Repetition accuracy

Response time, power on, on A1 Min. trigger pulse on B1 Reset time B1 (AC/DC)

Voltage failure buffering (50 / 60 Hz)

0.6, 6, 60 s / 6, 60 min / 6, 60 h

 $t_{min}\,\ldots\,t_{max},\,0.5\,\ldots\,6$

 t_{min} : -5 % ... +0 % / t_{max} : -0 % ... +5 % \pm 0.1 % or DC: 2 ms / AC: 10 ms

< 45 ms

20 ms (AC / DC) $\leq 30 \text{ ms}$

Triac, zero crossing

≥ 20 ms

Output

Type

Rated operational current at 40 °C (Fig.1) 2 A Max. inrush current (10 ms) 100 A Max. switching voltage 250 V 300 VA Max. AC load AC-1 I2t value $78 A^{2}s$ Leakage current < 1 mA

Power supply- and control input

UC 24-240 V (UC = AC / DC) Nominal voltage

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 between output and control input 2.5 kVrms 1 minute

General Specifications

Ambient temperature storage /operation Conductor cross section

Ingress protection degree Max. Screw torque Housing material / weight -40 ... 85 °C / -40 ...60 °C (Railway: -70 °C) Stranded wire 2.5 mm², 2 x 1.5 mm²

IP 20 0.4 Nm Lexan / 70 g

Standard types

UC (AC/DC), 15...60 Hz

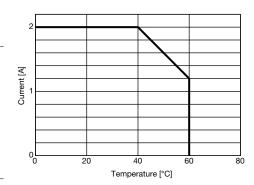
Railway

CIM12/UC24-240V CIM12R/UC24-240V

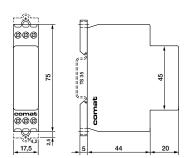
Connection diagram



Fig. 1 Output derating curve



Dimensions [mm]



Technical approvals, conformities

EN 50155, EN 60730



