CIM23, CIM23R (Railway)

Time relay with DC solid-state output

7 time functions and 7 time ranges from 50 ms ... 60 h DIN Rail mounting according to DIN 43 880

Type: CIM23/UC24-240V

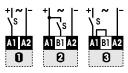
Sophisticated multifunction time relay, 1 transistor output, 7 time functions and service function ON/OFF, 7 time ranges from 50 ms ... 60 h, multifunction LED state indicator suitable for any time-control application, light-switch neon lamp current absorption on input B1, manual switching function for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

Maximum contact load 4 A / 30 V Recommended minimum contact load 1 mA

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

The functions are selectable by rotary switch





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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)

≤ 30 ms

≥ 20 ms

Output

MOS FET Type Rated operational current (Fig. 1) 4 A Max. inrush current (10 µs) 40 A 30 V Max. switching voltage Leakage current < 10 uA

Power supply- and control input

Nominal voltage (UC = AC / DC)

Operating voltage range Power consumption Frequency range Allowed DC residual current into B1

AC Neon lamp residual current into B1 Trigger threshold voltage on B1, AC / DC

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

UC 19 ... 250 V approx. 1 W 15 ... 60 Hz $\leq 0.5 \text{ mA}$ ≤ 10 mA 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

CIM23/UC24-240V CIM23R/UC24-240V







Connection diagram

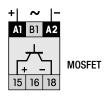
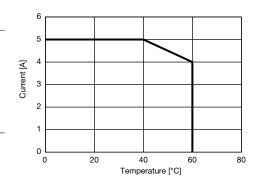
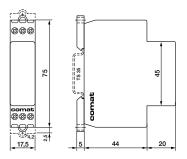


Fig. 1 Output derating curve



Dimensions [mm]



Technical approvals, conformities

EN 50155; EN 60730



