C55

11 pin plug-in time relay according to IEC 67-I-18a, 2 change over contacts

Digital quartz time relay with 15 time functions including pulse sequence monitoring. Time- Stop and Reset inputs. 10 ms ... 60 days.

Type: C55/... V R
Plug-in digital time relay, 2 change over contacts, UC 24 ... 60 V, UC 110 ... 240 V operating voltages, 15 time functions including rotational speed monitoring or similar applications, time- STOP and RESET function inputs. Time run / function state display and interactive time setting by display. Digital setting of time until 60 days, quartz precision

Maximum contact load 5 A / 250 V AC-1  5 A / 35 V DC-1
Recommended minimum contact load 10 mA / 12 V

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

Stop input (static):
Stops time run

Reset input (dynamic):
Sets timer to start condition, time runs again from beginning

Time data

Time ranges seconds 0.01 s ... 59.9 s  resolution 0.01s
Time ranges minutes 0.1 s ... 59 min 59.9 s  resolution 0.1 s
Time ranges hours 0.1 min ... 59 h 59.9 min  resolution 0.1 min
Time ranges days 0.1 h ... 59 day 23.9 h  resolution 0.1 h
Time accuracy, % from set value 0.05%
Repentition accuracy 0.05% or ±10 ms
Min. trigger pulse on B1 AC / DC 40 ms / 30 ms
Reset time on A1 ≤ 200 ms

Contacts

Type 2 CO, micro disconnection
Material AgNi
Rated operational current 5 A
Max. switching voltage AC-1 250 V
Max. AC load AC-1 (Fig.1) 1250 VA
Max. DC load DC-1, 30 V / 250 V (Fig.2) 150 W / 60 W

Power supply- and control inputs (Start, Stop, Reset) (UC = AC / DC)
Nominal voltage UC 24...60 V  UC 110...240 V
Operating voltage range [V] 19 ... 75  88 ... 265
Power consumption [W] ≤ 2  ≤ 2
Frequency range [Hz] 48 ... 400  48 ... 400
Allowed residual current AC / DC [mA] ≤ 1.5  ≤ 1
Threshold voltage control inputs [V] ≥ 11  ≥ 50

Insulation
Test voltage between contacts and other connections: 2 kV RMS 1 minute

General Specifications
Ambient temperature storage /operation -40 ... 85 °C / -25 ... 60 °C
Mechanical life of contacts ≥ 30 x 10⁶ operations
Expected life @ 40 °C (MTBF) (except contacts) > 150 000 h
Ingress protection degree IP 40 when plugged in
Housing material / Weight Lexan / 80 g

Standard types
UC (AC/DC) 48...400 Hz C55/UC24-60V R
UC (AC/DC) 48...400 Hz C55/UC110-240V R

Accessories:
Socket: S3-xx
Retaining clip HF-50
Transparent front cover FA-50
Front panel mounting set FZ-50L (Frame + retaining clip + socket with soldering connections)

This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.