

CS1

11 pin plug-in **time relay** according to IEC 67-I-18a,
50 ms ... 60 minutes for wide band 12 ... 240 V operating voltage,
internal or **external potentiometer** operation

Type: CS1/UC 12-240V R

Plug-in time relay

1 change over contact

UC 12-240 V operating voltage

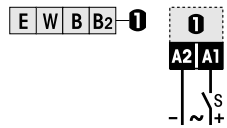
4 time functions, time ranges: 50 ms ... 60 min

LED for output state indication

Option for external fine adjustment time range potentiometer

Maximum contact load	8 A / 250 V AC-1
Recommended minimum contact load	10 mA / 10 V

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



External potentiometer (Pins 5, 7)

1 M Ω (see accessories)

Max. potentiometer cable length

50 m, shielded, GND on pin 5 (Z1)

Time data

5 partial time ranges, t_{max} (DIP switch)

0.6, 6, 60 s / 6, 60 min

Fine adjustment range (rotary knob)

$t_{min} \dots t_{max}$, 5 ... 60

Time range tolerance

t_{min} : -5 % ... +0 % / t_{max} : -0 % ... +5 %

Repetition accuracy

± 0.1 % or DC: 2 ms / AC: 10 ms

Reset time

≤ 30 ms

Voltage failure buffering

20 ms

Contacts

Type

1 CO, micro disconnection

Material

AgNi

Rated operational current

8 A

Max. switching voltage AC-1

250 V

Max. AC load AC-1 (Fig.1)

2000 VA

Max. DC load DC-1, 30 V / 250 V (Fig.2)

220 W / 75 W

Power supply- and control input (UC = AC / DC)

Nominal voltage (A1)

UC 12 ... 240 V

Operating voltage range

10.2 ... 265 V

Power consumption

≤ 1.4 W

Frequency range

45 ... 63 Hz

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 ... 85 °C / -25 ... 60 °C

Mechanical life of contacts

$\geq 30 \times 10^6$ operations

Ingress protection degree

IP 40 when plugged in

Housing material / Weight

Lexan / 75 g

Standard types

UC (AC/DC)

CS1/UC12-240V R

Accessories

External potentiometer 1 M (Panel mounting + scale)

SP-01/1M

Socket

S3-xx

Retaining clip

HF-50

Transparent front cover

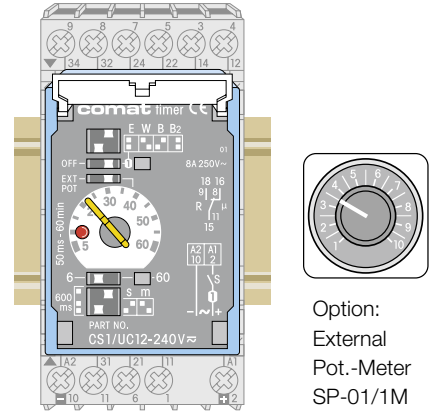
FA-50

Front panel mounting set

FZ-50L (Frame + retaining clip

+ socket with soldering connections)

comat
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Connection diagram

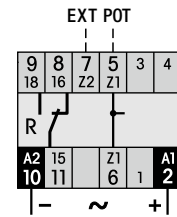


Fig.1 AC electrical endurance

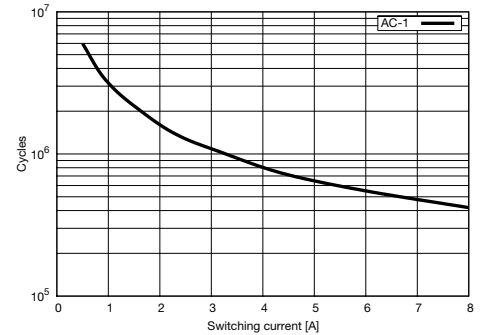
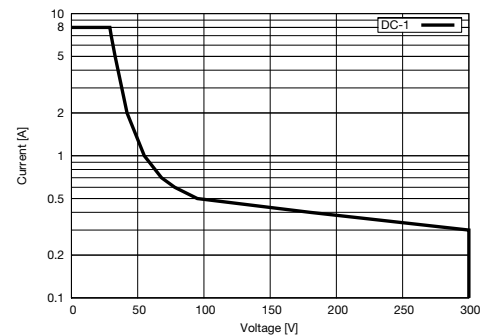
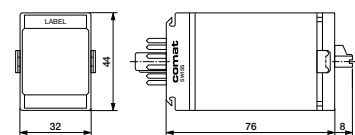


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



EN 60947