

C55.3; C55.4

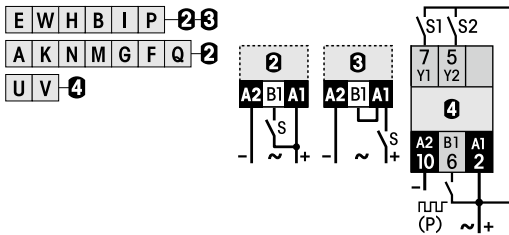
Solid state outputs 11 pin plug-in time relay according to IEC 67-I-18a.

Type: C55.3/... V R, C55.4/DC24V R

Plug-in digital time relay, 2 types of solid state outputs: DC 24 V, UC 10...265 V, DC 24 V, 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 output load xxx.3: 0.5 A / 265 V AC / DC; xxx.4: 2 A / 30 V DC

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



Stop input Y1, pin 7 (static):

Stops time run while active

Reset input Y2, pin 5 (dynamic):

Sets timer to start condition, time runs again from beginning

Time data

Time ranges seconds	0.01 s ... 59.9 s	resolution 0.01 s
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 %	
Repetition accuracy	0.05 % or ±10 ms	
Min. trigger pulse on B1 AC/DC	40 ms / 30 ms	
Reset time on A1 (AC/DC)	≤ 200 ms	

Outputs

	C55.3	C55.4
Type	UC (AC / DC) solid state insulated to inputs	DC solid state A2 common connection
Overload and short circuit proof	Yes (6 A / 2 μs) "sc" displ.	Yes (40 A / 150 μs)
Max. switching voltage	265 V	30 V
Rated operational current	0.5 A	2 A
Max. inrush current	3 A (10 ms) Fig.1	20 A (not for continuous repetitive operation)
Max. inductive switch-off energy	0.5 Ws @ 2 s cycle time	1 Ws single pulse

Power supply- and control inputs (Start, Stop, Reset) (UC = AC / DC)

	DC 24 V	UC 24...60 V	UC 110...240 V
Nominal voltage	19 ... 30	19 ... 75	88 ... 265
Operating voltage range [V]	≤ 1	≤ 2	≤ 2
Power consumption [W]	-	48 ... 400	48 ... 400
Frequency range [Hz]	≤ 1	≤ 1.5	≤ 1
Allowed residual current AC / DC [mA]	≥ 7	≥ 11	≥ 50
Threshold voltage, control inputs [V]			

Insulation

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Test voltage between outputs and other connections	2 kVrms 1 minute	not insulated

General specifications

Ambient temperature storage /operation	-40 ... 85 °C / -25 ...60 °C
Expected life @ 40 °C (MTBF)	> 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 DC 24 V	C55.3/UC24-60V R C55.3/UC110-240V R C55.4/DC24V R
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Accessories: Socket:

Retaining clip
Transparent front cover
Spare label plate
Front panel mounting set

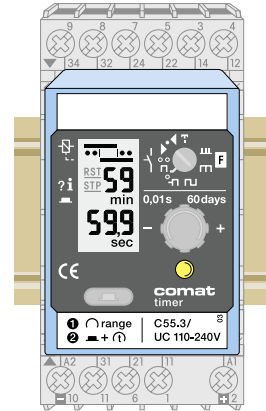
S3-xx

HF-50

FA-50

PL-50

FZ-50L (Frame + retaining clip + socket with soldering connections)



Connection diagram

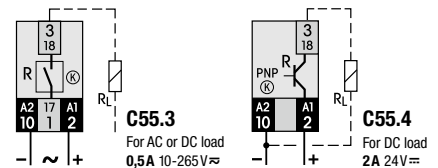
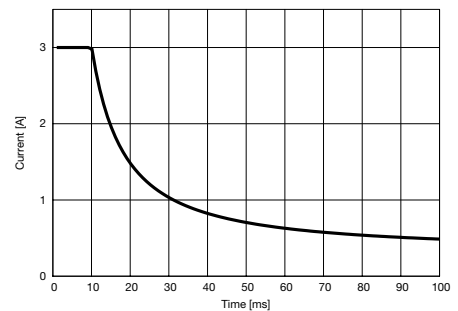
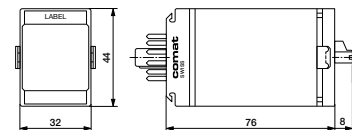


Fig.1 Inrush current



Dimensions [mm]



Technical approvals, conformities

EN 60947

