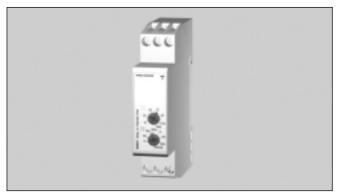
Timers Multifunction Type DAA51





Preliminary data sheet

- Time range 0.1 s to 100 h
- Knob selection of time range
- · Knob adjustable time setting
- Automatic start
- Repeatability: $\leq 0.2\%$
- Output: 8 A SPDT relay
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 17.5 mm DIN-rail housing (DIN 43880)
- Combined AC and DC power supply
- LED indication for relay status and power supply ON

Product Description

Multi-voltage delay on operate timer with 7 selectable time ranges within 0.1 s and 100 h. For mounting on DIN-rail

Housing 17.5 mm wide suitable both for back and front panel mounting.

Ordering Key Housing Function Type Item number Output Power supply

Type Selection

Mounting	Output	Housing	Supply: 24 VDC and 24 to 240 VAC
DIN-rail	SPDT	Mini-D	DAA51CM24

Time Specifications

Time ranges Knob selectable	0.1 to 1 s 1 to 10 s 6 to 60 s 60 to 600 s 0.1 to 1 h 1 to 10 h 10 to 100 h
Setting accuracy	≤5%
Repeatability	≤ 0.2%
Time variation Within rated power supply Within ambient temperature	≤ 0.05%/V ≤ 0.2%/°C
Reset Manual reset of time and/or relay Pulse duration	Close the trigger contact between pins A1 and Y1 ≥ 100 ms

Output Specifications

Output	SPDT relay
Rated insulation voltage	250 VAC (rms)
Contact Ratings (AgSnO2) Resistive loads AC 1 DC 12	μ 8 A @ 250 VAC 5 A @ 24 VDC
Small inductive loads AC 15 DC 13	2.5 A @ 250 VAC 2.5 A @ 24 VDC
Mechanical life	≥ 30 x 10 ⁶ operations
Electrical life	$\geq 10^5$ operations (at 8 A, 250 V, cos φ = 1)
Operating frequency	< 7200 operations/h
Dielectric strength Dielectric voltage Rated impulse withstand voltage	2 kVAC (rms) 4 kV (1.2/50 μs)



Supply Specifications

Power supply Rated operational voltage through terminals:	Overvoltage cat. III (IEC 60664, IEC 60038)
A1, A2	24 VDC ± 15% and 24 to 240 VAC + 10% -15%, 45 to 65 Hz
Voltage interruption	≤ 40 ms
Rated operational power	2.5 VA @ 240 VAC 1.5 W @ 24 VDC

Time Setting

Centre knob:				
Time setting on relative				
scale: 10 to 110% on full				
scale				

Lower knob: Setting of time range

Operating Diagram



General Specifications Power ON delay ≤ 100

Power ON delay	≤ 100 ms
Power OFF delay	≤ 100 ms
Indication for	
Power supply status	LED, green
Output status	LED, yellow
	(flashing when timing)
Environment	(EN 60529)
Degree of protection	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	-20° to +60°C, R.H. < 95%
Storage temperature	-30° to +80°C, R.H. < 95%
Weight	100 g
Screw terminals	
Tightening torque	Max. 0.5 Nm according to
	IEC 60947
CE-marking	Yes
EMC	Electromagnetic Compatibillity
Immunity	According to EN 50082-2
Emission	According to EN 50082-1
Timer Specifications	According to EN 61812-1

Mode of Operation

The yellow LED, flashing when timing, is ON as soon as the relay turns ON.

The set delay period begins as soon as the power supply is connected. At the end of the set delay the relay operates and does not release until the power supply is interrupted for at least 200 ms. If the power supply is interrupted for at least 200 ms before the relay operates the time is set to zero and the circuit is ready for a new time period.

Wiring Diagram

