Timers Delay on Operate Types DAA51, DAA71







- Time range 0.1 s to 100 h
- Knob selection of time range
- Knob adjustable time setting
- Automatic start

Power supply

- Repeatability: ≤ 0.2%
- Output: 5 A SPDT or 5 A DPDT relays
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 17.5 mm (DAA51C) or 35.5 mm (DAA71D) 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 for SPDT version and 35.5 mm for DPDT version, suitable both for back and front panel mounting.

Ordering Key Housing Function Type Item number Output DAA 51 C M24

Type Selection

Mounting	Output	Housing	Supply: 12 to 240 VAC/DC	Supply: 24 VDC and 24 to 240 VAC
DIN-rail	SPDT	Mini-D	DAA 71 D W24	DAA 51 C M24
DIN-rail	DPDT	Mini-D		DAA 71 D M24

Time Specifications

Time ranges		Repeatability	≤ 0.2%
Knob selectable	0.1 to 1s 1 to 10s 6 to 60s 60 to 600s 0.1 to 1h 1 to 10h 10 to 100h	Time variation Within rated power supply Within ambient temperature Reset Power supply interruption	≤ 0.05%/V ≤ 0.2%/°C ≥ 200 ms
Setting accuracy	≤ 5%		

Supply Specifications

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Power supply Rated operational voltage through terminals:			Overvoltage cat. II (IEC 60664, IEC 60038)
(DAA51C)		M24	24 VDC ± 15% and 24 to 240 VAC + 10% -15%, 45 to 65 Hz
(DAA71D)	A1, A2	M24	24 to 240 VAC +10% -15%, 45 to 65 Hz
		W24	12 to 240 VDC +10% -15% and 12 to 240 VAC +10% -15%, 45 to 65 Hz
Voltage inter	ruption		≤ 10 ms
Rated operar (DAA51C) (DAA71D)	ÀC s DC s AC s	er upply upply upply upply	4 VA 1.5 W 5.5 VA 2 W

Output Specifications

Output		SPDT or DPDT relays
Rated insulation volta	age	250 VAC (rms)
Contact Ratings (AgSnO ₂) DAA51 (SPDT):		μ
Resistive loads	AC 1 DC 12	
Small inductive loads AC 15		2.5 A @ 250 VAC DC 13
DAA71 (DPDT)		
Resistive loads	AC 1	
Small inductive loads	AC 15 DC 13	3 A @ 250 VAC 3 A @ 24 VDC
Mechanical life		≥ 30 x 10 ⁶ operations
Electrical life		\geq 10 ⁵ operations (at 5 A, 250 V, cos ϕ = 1)
Operating frequency		< 7200 operations/h
Dielectric strength Dielectric voltage Rated impulse withstand		2 kVAC (rms)
voltage		2.5 kV (1.2/50 μs)

General Specifications

Power ON delay	≤ 100 ms	
Indication for Power supply ON Output relays ON	LED, green LED, yellow (flashing when timing)	
Environment Degree of protection Pollution degree Operating temperature Storage temperature	(EN 60529) IP 20 2 (IEC 60664) -20° to +60°C, R.H. < 95% -30° to +80°C, R.H. < 95%	
Housing dimesions (DAA51C) (DAA71D)	17.5 x 81 x 67.2 mm 35.5 x 81 x 67.2 mm	
Weight	75 g	
Screw terminals Tightening torque	Max. 0.5 Nm according to IEC EN 60947	
Approvals	UL, CSA RINA (DAA51 only)	
CE Marking	Yes	
EMC Immunity Emission	Electromagnetic Compatibility According to EN 61000-6-2 According to EN 61000-6-3	

Time Setting

Centre knob:

Time setting on relative scale: From 1 to 10 with respect to the chosen range.

Lower knob:

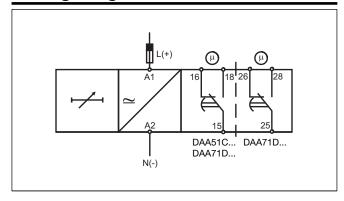
Setting of time range

Mode of Operation

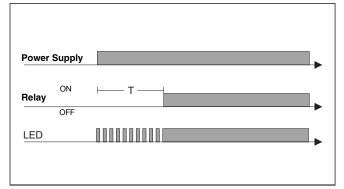
The yellow LED, flashing when timing, is ON as soon as the relay turns ON.

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



Operating Diagram



Dimensions

