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: 2 0.2%
- Output: 5 A SPDT or 5 A DPDT relays
- For mounting on DIN-rail in accordance with DIN/EN/EC 60715
- 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 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	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

		-
	Overvoltage cat. II (IEC 60664, IEC 60038)	
	M24	24 VDC ± 15% and 24 to 240 VAC + 10% -15%, 45 to 65 Hz
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
ruption		≤ 10 ms
tional pow	er	
ÅC s	upply	4 VA 1.5 W
AC s	upply	5.5 VA 2 W
	ruption tional volta A1, A2 A1, A2 ruption tional pow AC s DC s AC s	tional voltage ninals: A1, A2 M24 A1, A2 M24 W24

Output Specifications

Output		SPDT or DPDT relays
Rated insulation voltage		250 VAC (rms)
Contact Ratings DAA51 (SPDT):		μ
Resistive loads	AC 1 DC 12	
Small inductive loads	AC 15 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 50 x 10 ³ operations (at 5 A, 250 V, cos φ = 1)
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 (DAA51C) (DAA71D)		(EN 60529) IP 20 2 (IEC 60664) -25° to +60°C, R.H. < 95% -20° to +60°C, R.H. < 95% -30° to +80°C, R.H. < 95%
Storage temperature		60 to 100 0, 1t.11. < 5070
)AA51C))AA71D)	17.5 x 81 x 67.2 mm 35.5 x 81 x 67.2 mm PA66
Weight		75 g
Screw terminals Tightening torque		Max. 0.5 Nm according to IEC EN 60947
Approvals		cULus, RCM CCC (DAA51 only)
CE Marking		Yes
EMC Immunity Emission		Electromagnetic Compatibillity According to EN 61000-6-2 According to EN 61000-6-3

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.

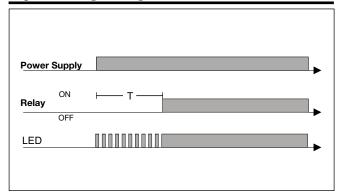
Time Setting

Centre knob:

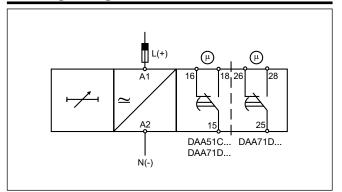
Time setting on relative scale: From 1 to 10 with respect to the chosen range.

Lower knob: Setting of time range

Operating Diagram



Wiring Diagram



Dimensions

