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
- 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 DINrail Housing 17.5 mm wide for SPDT version and 35.5 mm for DPDT version, suitable both for back and front panel mounting.

Type Selection

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

Time Specifications

Time ranges

DAA51

	6 60 0.1	to to to	10 s 60 s 600 s 1 h 10 h
			100 h
Setting accuracy	≤ 5	%	

Supply Specifications

Power supply Rated operational voltage through terminals:		Overvoltage cat. II (IEC 60664, IEC 60038)	
(DAA51C)	A1, A2	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 operat	tional pow	er	
(DAA51C)		upply upply	4 VA 1.5 W
(DAA71D)		upply upply	5.5 VA 2 W



Power supply

Supply: 24 VDC and 24 to 240 VAC DAA 51 C M24 DAA 71 D M24

Repeatability	≤ 0.2%
Time variation	
Within rated power supply	≤ 0.05%/V
Within ambient temperature	≤ 0.2%/°C
Reset Power supply interruption	≥ 200 ms

Output Specifications

Output		SPDT or DPDT relays
Rated insulation volta	250 VAC (rms)	
Contact Ratings (AgSnO ₂)		μ
DAA51 (SPDT):		
Resistive loads	AC 1	5 A @ 250 VAC
	DC 12	5 A @ 24 VDC
Small inductive loads	AC 15	2.5 A @ 250 VAC
	DC 13	2.5 A @ 24 VDC
DAA71 (DPDT)		
Resistive loads	AC 1	5 A @ 250 VAC
Small inductive loads	AC 15	3 A @ 250 VAC
	DC 13	3 A @ 24 VDC
Mechanical life		\geq 30 x 10 ⁶ operations
Electrical life		$\geq 10^5$ operations
		(at 5 A, 250 V, $\cos \varphi = 1$)
Operating frequency		< 7200 operations/h
Dielectric strength		
Dielectric voltage		2 kVAC (rms)
Rated impulse withstand		· · · ·
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 Material	(DAA51C) (DAA71D)	17.5 x 81 x 67.2 mm 35.5 x 81 x 67.2 mm PA66
Weight		75 g
Screw terminals Tightening torqu		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

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

Wiring Diagram



Operating Diagram



Dimensions

