Timers Delay on Operate Type DAA51



Product Description

Multi-voltage delay on operate timer with 7 selectable time

ranges within 0.1 s and 100 hour. For mounting on DIN-rail housing 17.5mm wide suitable both for back and front panel mounting.

Property

- 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 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



Type Selection

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

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	≤ 0.05%/V ≤ 0.2%/°C
		Reset Power supply interruption	≥ 200 ms
Setting accuracy	≤ 5%	<u></u>	

Supply Specifications

Power supply Rated operational voltage through terminals:	Overvoltage cat. II (IEC 60664, IEC 60038)	
Ã1, A2 M24	24 VDC ± 15% and 24 to 240 VAC + 10% -15%, 45 to 65 Hz	
Voltage interruption	≤ 10 ms	
Rated operational power AC supply DC supply	4 VA 1.5 W	

Output Specifications

Output		SPDT	
Rated insulation voltage		250 VAC (rms)	
Contact Ratings (AgSnO ₂)		μ	
Resistive loads Small inductive loads	AC 1 DC 12 AC 15 DC 13	* * * * * * * * * * * * * * * * * * * *	
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	Weight	75 g
Indication for		Screw terminals	
Power supply ON Output relays ON	LED, green LED, yellow	Tightening torque	Max. 0.5 Nm according to IEC EN 60947
	(flashing when timing)	Approvals	UL, CSA
Environment	(EN 60529)		RINA
Degree of protection	IP 20	CE Marking	Yes
Pollution degree Operating temperature Storage temperature	2 (IEC 60664) -20° to +60°C, R.H. < 95% -30° to +80°C, R.H. < 95%	EMC Immunity Emission	Electromagnetic Compatibillity According to EN 61000-6-2 According to EN 61000-6-3
Housing		LITIISSIOTI	According to Live 1000-0-0
Dimesions	17.5 x 81 x 67.2 mm		
Material	PA66		

Mode of Operation

The yellow LED flashing when timing, is ON as soon as the relay turns ON. The set delay period begins 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 200ms

If the power supply is interrupted for at least 200ms before the relay operates the time is set to zero and the circuit is ready for a new time period.

Time Setting

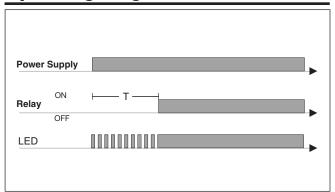
Centre knob:

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

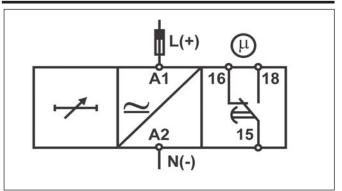
Lower knob:

Setting of time range

Operating Diagram



Wiring Diagram



Dimensions

