# Timers **Delay on Operate** Types DAA51, DAA71

#### DAA51 **Product Description**

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

for DPDT version, suitable both for back and front panel mounting.

# **Type Selection**

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

### **Time Specifications**

Time ranges

	0.1 to 1 h 1 to 10 h
	60 to 600 s
	6 to 60 s
	1 to 10 s
Knob selectable	0.1 to 1 s

# **Supply Specifications**

<b>Power supply</b> 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 operat	tional pow	er	
(DAA51C)		upply upply	4 VA 1.5 W
(DAA71D)	AC supply DC supply		5.5 VA 2 W

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

### **Ordering Key**

Ordering Key	DAA 51 C M24
Housing —	
Function	
Туре ———	
Item number	
Output	
Power supply	

pply: VDC and 24 to 240 VAC A 51 C M24 A 71 D M24

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

### **Output Specifications**

50 VAC (rms)
A @ 250 VAC A @ 24 VDC
.5 A @ 250 VAC .5 A @ 24 VDC
A @ 250 VAC
A @ 250 VAC A @ 24 VDC
30 x 10 <sup>6</sup> operations
50 x 10 <sup>3</sup> operations t 5 A, 250 V, $\cos \varphi = 1$ )
kVAC (rms) .5 kV (1.2/50 μs)





Housing 17.5 mm wide for

SPDT version and 35.5 mm



### **General Specifications**

-		
Power ON delay		≤ 100 ms
Indication for		
Power supply ON		LED, green
Output relays ON		LED, yellow
output rolayo or	•	(flashing when timing)
<b>F</b> t		
Environment		(EN 60529)
Degree of protec	tion	IP 20
Pollution degree		2 (IEC 60664)
Operating tempe		
	(DAA51C)	-25° to +60°C, R.H. < 95%
	(DAA71D)	-20° to +60°C, R.H. < 95%
Storage tempera	ture	-30° to +80°C, R.H. < 95%
Housing		
Dimesions	(DAA51C)	17.5 x 81 x 67.2 mm
	(DAA71D)	35.5 x 81 x 67.2 mm
Material	(8/01/18)	PA66
Weight		75 g
Screw terminals		
	•	Max 0.5 Nm apparding to
Tightening torqu	e	Max. 0.5 Nm according to
		IEC EN 60947
Approvals		UL, CSA
		RINA (DAA51 only)
CE Marking		Yes
EMC		Electromagnetic Compatibillity
Immunity		According to EN 61000-6-2
Emission		According to EN 61000-6-3
Enneoion		

# **Mode of Operation**

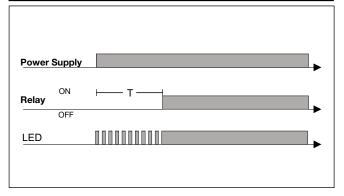
The yellow LED, flashing when timing, is ON as soon as the relay turns ON.

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.

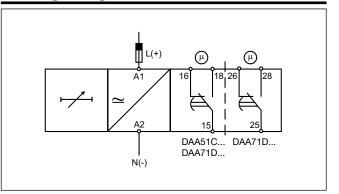
### Time Setting

**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

