Timers Delay on Operate Type DAA01, PAA01

Knob selection of time range

Knob adjustable time setting

• Time range 0.1 s to 100 h

- Automatic start
- Repeatability: \leq 0.2%
- Output: 8 A SPDT or 2 x 8 A SPDT relays
- For mounting on DIN-rail in accordance with DIN/EN 50 022 or Plug-in
- 22.5 Euronorm or 36 mm plug-in module housing
- 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

DAA01

100 h. For mounting on DINrail (DAA01) or plug-in (PAA01).

Ordering Key	DAA 01 C M24
Housing Function Type Item number Output	
Power supply	

Type Selection

Mounting	Output	Housing	Supply: 24 VDC and 24 to 240 VAC	Supply: 24 to 240 VAC/DC
DIN-rail	1 x SPDT 2 x SPDT	D-Housing	DAA01CM24	DAA01DM24
Plug-in	1 x SPDT 2 x SPDT	P-Housing	PAA01CM24	PAA01DM24

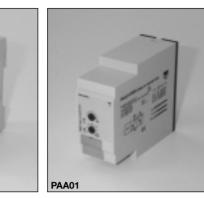
Time Specifications

Time ranges 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
Setting accuracy	$\leq 5\%$
Repeatability	≤ 0.2%
Time variation Within rated power supply Within ambient temperature	≤ 0.05%/V ≤ 0.2%/°C
Reset Power supply interruption	≥200 ms

Output Specifications

Output		1 or 2 x SPDT relays
Rated insulation voltage		250 VAC (rms)
Contact Ratings (AgS	nO2)	μ
Resistive loads	AC 1	8 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
Mechanical life		\geq 30 x 10 ⁶ operations
Electrical life		≥ 10 ⁵ operations
		(at 8 A, 250 V, $\cos \varphi = 1$)
Operating frequency		< 7200 operations/h
Dielectric strength		
Dielectric voltage		2 kVAC (rms)
Rated impulse withst	and	· · ·
voltage		4 kV (1.2/50 µs)
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Supply Specifications

Power supply Rated operational voltage through terminals:		Overvoltage cat. III (IEC 60664, IEC 60038)
(DAA01C) (PAA01C)	A1, A2 or 2, 10	24 VDC ± 15% and 24 to 240 VAC + 10% -15%, 45 to 65 Hz
(DAA01D) (PAA01D)	A1, A2 or 2, 10	24 to 240 VAC/DC
Voltage interruption		≤ 10 ms
Rated operatio AC supply DC supply	nal power	4 VA 1.5 W

Time Setting

Centre knob: Time setting on relative scale: 1 to 10 with respect to the chosen range

Lower knob: Setting of time range

General Specifications

Power ON delay	≤ 100 ms
Reaction time	
Instantaneous contact	< 20 ms from power ON
Indication for	
Power supply status	LED, green
Output status	LED, yellow
	(flashing when timing)
Environment	(EN 60529)
Degree of protection	
Pollution degree	3 (DAA01), 2 (PAA01) (IEC 60664)
Operating temperature	-20° to +60°C, R.H. < 95%
Storage temperature	-30° to +80°C, R.H. < 95%
Weight	Approx. 130 g
Screw terminals (DAA01)	
Tightening torque	Max. 0.5 Nm according to IEC EN 60947
Approvals	UL, CSA
CE marking	Yes
EMC	Electromagnetic Compatibillity
Immunity	According to EN 61000-6-2
Emission	According to EN 50081-1
Timer Specifications	According to EN 61812-1

Mode of Operation

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

The second relay can operate as instantaneous or delayed changeover contact. The selection is made by a DIP-switch placed under the plastic door on the device's front.

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.

Operating Diagram

