Timers Delay on Operate Type DAA01, PAA01









- Time range 0.1 s to 100 h
- Knob selection of time range
- Knob adjustable time setting
- Automatic start
- Repeatability: ≤ 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

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

Ordering Key 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	D-Housing	DAA01CM24	
Plug-in	2 x SPDT 1 x SPDT	P-Housing	PAA01CM24	DAA01DM24
i iug-iii	2 x SPDT	i -i lousing	I AAU I OINIZT	PAA01DM24

Time Specifications

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	
≤ 5%	
≤ 0.2%	
≤ 0.05%/V	
≤ 0.2%/°C	
≥ 200 ms	

Output Specifications

Output	1 or 2 x SPDT relays
Rated insulation voltage	250 VAC (rms)
Contact Ratings (AgSnO ₂) Resistive loads AC 15 Small inductive loads AC 15 DC 12	5 A @ 24 VDC 5 2.5 A @ 250 VAC
Mechanical life	≥ 30 x 10 ⁶ operations
Electrical life	\geq 10 ⁵ operations (at 8 A, 250 V, cos φ = 1)
Operating frequency	< 7200 operations/h
Dielectric strength Dielectric voltage Rated impulse withstand voltage	2 kVAC (rms) 4 kV (1.2/50 μs)

Supply Specifications

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



General Specifications

Power ON delay		< 100 ms	
Reaction time		_ 100 1110	
Instantaneous cor	tact	< 20 ms from power ON	
	itaci	< 20 ms nom power on	
Indication for		LED	
Power supply ON		LED, green	
Output relays ON		LED, yellow	
		(flashing when timing)	
Environment		(EN 60529)	
Degree of protecti	on	IP 20	
Pollution degree		3 (DAA01), 2 (PAA01)	
0 " '		(IEC 60664)	
Operating tempera		-20° to +60°C, R.H. < 95%	
Storage temperatu	ire	-30° to +80°C, R.H. < 95%	
Housing			
Dimensions	DAA01	22.5 x 80 x 99.5 mm	
	PAA01	36 x 80 x 94 mm	
Weight		Approx. 130 g	
Screw terminals (D)AA01)		
Tightening torque		Max. 0.5 Nm according to	
		IEC EN 60947	
Approvals		UL, CSA	
		RINA (DAA01 only)	
CE marking		Yes	
EMC		Electromagnetic Compatibillity	
Immunity		According to EN 61000-6-2	
Emission		According to EN 61000-6-3	
Timer Specificatio	ns	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.

Time Setting

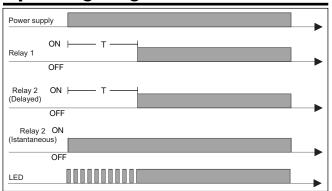
Centre knob:

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

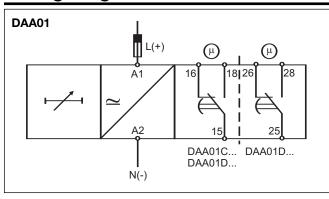
Lower knob:

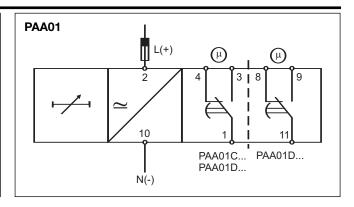
Setting of time range

Operating Diagram



Wiring Diagrams







Dimensions

