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 2 x SPDT	D-Housing	DAA01CM24	DAA01DM24
Plug-in	1 x SPDT	P-Housing	PAA01CM24	DAAUIDIVIZT
· ·	2 x SPDT	•		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	≤ 5%
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		1 or 2 x SPDT relays
Rated insulation volta	age	250 VAC (rms)
Contact Ratings (AgS	SnO ₂)	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		≥ 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)

Supply Specifications

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



General Specifications

Power ON delay		≤ 100 ms
Reaction time		
Instantaneous con	ıtact	< 20 ms from power ON
Indication for		
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)
		(IEC 60664)
Operating tempera		-20° to +60°C, R.H. < 95%
Storage temperatu	ıre	-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 Specification	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

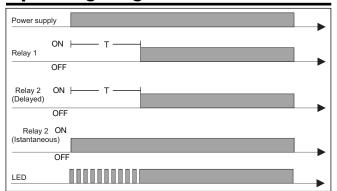
Centre knob:

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

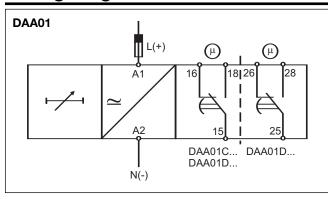
Lower knob:

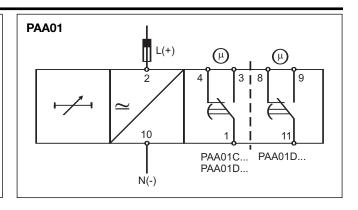
Setting of time range

Operating Diagram



Wiring Diagrams







Dimensions

