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: \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

100 h. For mounting on DIN-rail (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

mile specifications	
Time ranges Knob selectable	0.1 to 1s 1 to 10 s 6 to 60 s 60 to 600 s 0.1 to 1h 1 to 10 h 10 to 100 h
Setting accuracy	≤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 (AgSnO ₂) Resistive loads AC 1 DC 12 Small inductive loads AC 15	μ 8 A @ 250 VAC 5 A @ 24 VDC 2.5 A @ 250 VAC
DC 13	2.5 A @ 24 VDC
Mechanical life	\geq 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 Rated operational voltage through terminals:		Overvoltage cat. III (IEC 60664, IEC 60038)
(DAAÕ1C)	A1, A2 or	24 VDC ± 15% and
(PAA01C)	2, 10	24 to 240 VAC + 10% -15%,
,		45 to 65 Hz
(DAA01D)	A1, A2 or	24 to 240 VAC/DC
(PAA01D)	2, 10	+ 10% - 15%,
,		45 to 65 Hz
Voltage interruption	on	≤ 10 ms
Rated operational	power	
AC supply		4 VA
DC supply		1.5 W

Time Setting

Centre knob:

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

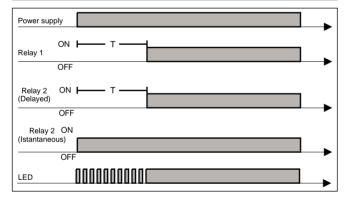
Lower knob:

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 Output status	LED, green LED, yellow (flashing when timing)
Environment Degree of protection Pollution degree	(EN 60529) IP 20 3 (DAA01), 2 (PAA01) (IEC 60664)
Operating temperature Storage temperature	-20° to +60°C, R.H. < 95% -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 Immunity Emission	Electromagnetic Compatibility According to EN 61000-6-2 According to EN 50081-1
Timer Specifications	According to EN 61812-1

Operating Diagram



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.

Wiring Diagrams

