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

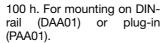
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- 22.5 Euronorm or 36 mm plug-in module housing
- Combined AC and DC power supply
- LED indication for relay status and power supply ON

Product Description

DAA01

Multi-voltage delay on operate timer with 7 selectable r time ranges within 0.1 s and (



PAA01

Ordering Key	DAA 01 C M24
Housing —	
Function —	
Туре	
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	≤ 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 DC 13		μ 8 A @ 250 VAC 5 A @ 24 VDC 2.5 A @ 250 VAC 2.5 A @ 24 VDC	
Mechanical life		≥ 30 x 10 ⁶ operations	
Electrical life		≥ 10 ⁵ operations (at 8 A, 250 V, cos φ = 1)	
Operating frequency		< 7200 operations/h	
Dielectric strength Dielectric voltage Rated impulse withsta voltage	and	2 kVAC (rms) 4 kV (1.2/50 μs)	

Supply Specifications

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



General Specifications

Power ON delay	≤ 100 ms
Reaction time	
Instantaneous contact	< 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 protection	IP 20
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%
Housing dimensions	
DIN-rail version	22.5 x 80 x 99.5 mm
Plug-in version	36 x 80 x 94 mm
Weight	Approx. 130 g
Screw terminals (DAA01)	
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 Specifications	According to EN 61812-1

Time Setting

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

to the chosen range

Lower knob: Setting of time range

Mode of Operation

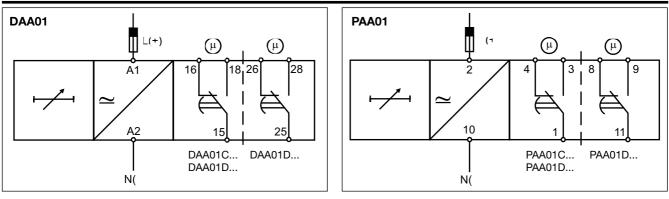
The yellow LED, flashing when timing, is ON as soon as the relay turns ON.

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

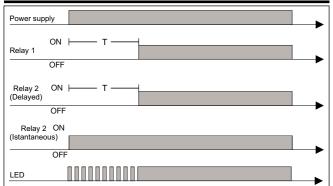
The set delay period begins as soon as the power supply

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



Operating Diagram



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Dimensions

