Timers Delay on Operate Type EAA





- Time range 0.1 s to 10 h
- Automatic start
- · Knob-adjustable time setting
- Knob selection of time range
- · Oscillator-controlled time circuit
- Repeat accuracy: $\leq 0.2\%$
- Output: 5 A SPDT or 5 A DPDT
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- · 22.5 mm Euronorm housing
- · LED-indication for relay and power supply ON
- Combined AC and DC power supply

Product Description

Mono-function timer with 3 selectable time ranges within 0,1 s to 1 m or 1 m to 10 h. For mounting on DIN-rail. Often used to prevent over-

loading the power distribution system, when e.g. pumps should not be switched on at the same time.

Ordering Key	EAA C T23 1M
Housing — Function — Type — Output — Power supply — Output — Outpu	
Time range ————	

Type Selection

Mounting	Output	Time range	Supply: 24 VAC/DC & 115-230 VAC
For DIN-rail	SPDT	0.1 s - 1 m	EAA C T23 1M
	SPDT	1 m - 10 h	EAA C T23 10H
	DPDT	0.1 s - 1 m	EAA D T23 1M
	DPDT	1 m - 10 h	EAA D T23 10H

Time Specifications

Time Specifications		
Time ranges Type 1 M		
Selectable by rotary switch	0.1 s - 1 s 1 s - 10 s 0.1 m - 1 m	
Type 10 H	0.1111	
Selectable by rotary switch	1 m - 10 m 0.1 h - 1 h 1 h - 10 h	
Time range accuracy	±10% on max. min. setting: actual time ≤ min. set time	
Repeat accuracy	≤ 0.2%	
Time variation Within rated power supply and ambient temperature	≤ 0.05%/V ≤ 0.2%/°C	
Reset Time and relay	Power supply interruption ≥ 200 ms	

Output Specifications

Output Type C Type D	SPDT relay DPDT relay
Rated insulation voltage	250 VAC (contact/elect.)
Contact ratings (AgCdO) Resistive loads AC 1 DC 1 Small inductive loads AC 15 DC 13	μ (micro gap) 5 A, 250 VAC 5 A, 24 VDC 2 A, 250 VAC 3 A, 24 VDC
Mechanical life	≥ 40 x 106 operations
Electrical life	≥ 10 ⁵ operations (at max. load)
Operating frequency	≤ 7200 operations/h
Dielectric strength Dielectric voltage Rated impulse withstand volt.	2 kVAC (rms) 4 kV (1.2/50 μs)



Supply Specifications

Rated operational current Type C 20 mA @ 24 VDC 40 mA @ 24 VAC 20 mA @ 115 VAC 40 mA @ 230 VAC Type D 25 mA @ 24 VDC 40 mA @ 24 VDC 40 mA @ 24 VDC 40 mA @ 24 VAC 30 mA @ 115 VAC	Power supply Rated operational voltage through term. A1 & A2 T23 frequency through term. A2 & A3 T23 frequency Voltage interruption Dielectric voltage Rated impulse withstand voltage	Overvoltage cat. III (IEC 60664) (IEC 60038) 115-230 VAC, $-10/+15\%$ 50/60 Hz, $-5/+5$ Hz 24 VAC/DC, $-10/+15\%$ 50/60 Hz, $-5/+5$ Hz \leq 40 ms None 4 kV (1.2/50 μ s)
60 mA @ 230 VAC	Type C	40 mA @ 24 VAC 20 mA @ 115 VAC 40 mA @ 230 VAC 25 mA @ 24 VDC 40 mA @ 24 VAC 30 mA @ 115 VAC

General Specifications

EMC Immunity	Electromagnetic Compatibility Acc. to IEC 60801-4 Acc. to IEC 60801-5
Power ON delay	≤ 200 ms
Power OFF delay	≥ 200 ms
Indication for Power supply ON Output ON	LED, green LED, yellow
Environment Degree of protection Pollution degree Operating temperature Storage temperature	IP 20 3 -20° to +50°C (-4° to +122°F) -50° to +85°C (-58° to +185°F)
Weight	125 g
Screw terminals Tightening torque Approvals	Max. 0,5 Nm acc. to IEC 60947 UL, CSA
CE-marking	Yes

Mode of Operation

The delay period begins when power supply is applied. At the end of the set delay, the relay will operate and will not release until power supply is interrupted

for at least 200 ms. If power supply is interrupted for at least 200 ms before the relay operates, the time circuit is reset to zero and the relay is ready for a new time period.

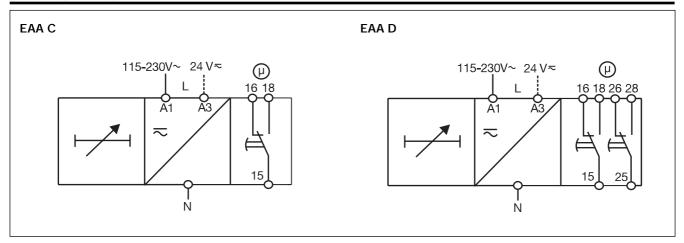
Time Setting

Selection of time ranges Upper knob:

3-position rotary switch.

Time setting Lower knob: Knob-adjustable on relative scale 1-10.

Wiring Diagrams



Operation Diagram

