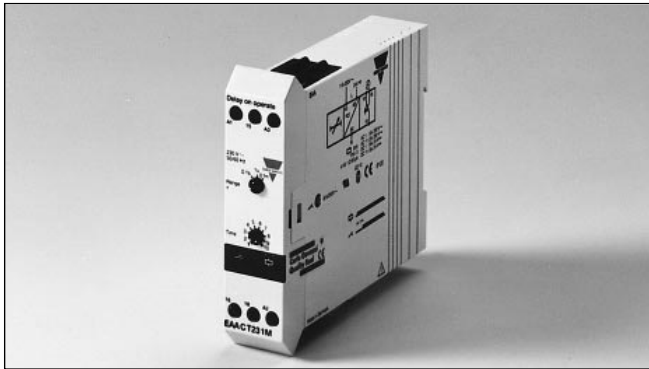


Timers

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**



Type Selection

Mounting	Output	Time range
For DIN-rail	SPDT	0.1 s - 1 m
	SPDT	1 m - 10 h
	DPDT	0.1 s - 1 m
	DPDT	1 m - 10 h

Supply: 24 VAC/DC & 115-230 VAC

- EAA C T23 1M
- EAA C T23 10H
- EAA D T23 1M
- EAA D T23 10H

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	
Selectable by rotary switch	1 m - 10 m 0.1 h - 1 h 1 h - 10 h
Time range accuracy	$\pm 10\%$ on max. min. setting; actual time \leq min. set time
Repeat accuracy	$\leq 0.2\%$
Time variation	
Within rated power supply and ambient temperature	$\leq 0.05\%/V$ $\leq 0.2\%/^{\circ}C$
Reset	
Time and relay	Power supply interruption ≥ 200 ms

Output Specifications

Output	
Type C	SPDT relay
Type D	DPDT relay
Rated insulation voltage	250 VAC (contact/elect.)
Contact ratings (AgCdO)	
Resistive loads	μ (micro gap) AC 1 5 A, 250 VAC DC 1 5 A, 24 VDC
Small inductive loads	AC 15 2 A, 250 VAC DC 13 3 A, 24 VDC
Mechanical life	$\geq 40 \times 10^6$ operations
Electrical life	$\geq 10^5$ operations (at max. load)
Operating frequency	≤ 7200 operations/h
Dielectric strength	
Dielectric voltage	2 kVAC (rms)
Rated impulse withstand volt.	4 kV (1.2/50 μ s)

Supply Specifications

Power supply	Overvoltage cat. III (IEC 664)
Rated operational voltage through term. A1 & A2 T23	(IEC 38) 115-230 VAC, -10/+15%
frequency	50/60 Hz, -5/+5 Hz
through term. A2 & A3 T23	24 VAC/DC, -10/+15%
frequency	50/60 Hz, -5/+5 Hz
Voltage interruption	≤ 40 ms
Dielectric voltage	None
Rated impulse withstand voltage	4 kV (1.2/50 μs)
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 VAC 30 mA @ 115 VAC 60 mA @ 230 VAC

General Specifications

EMC	Electromagnetic Compatibility
Immunity	Acc. to IEC 801-4 Acc. to IEC 801-5
Power ON delay	≤ 200 ms
Power OFF delay	≥ 200 ms
Indication for	
Power supply ON	LED, green
Output ON	LED, yellow
Environment	
Degree of protection	IP 20
Pollution degree	3
Operating temperature	-20° to +50°C (-4° to +122°F)
Storage temperature	-50° to +85°C (-58° to +185°F)
Weight	125 g
Screw terminals	
Tightening torque	Max. 0,5 Nm acc. to IEC 947
Approvals	UL, CSA, SEV

Mode of Operation

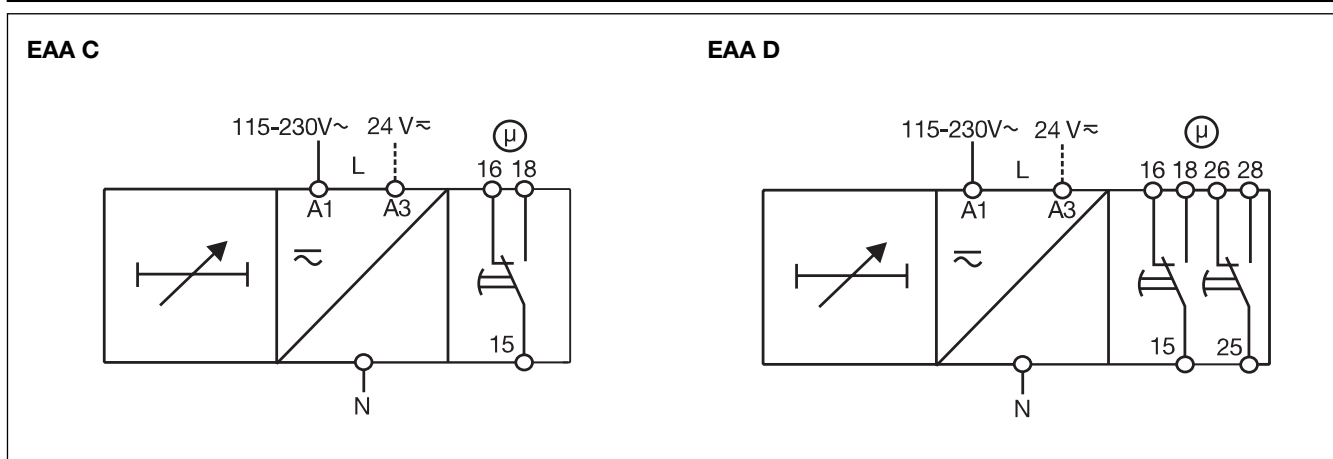
The delay period begins when power supply is applied. At the end of the set delay, the relay will operate and will not release until power supply is interrupted for at least 200 ms. If power supply is interrupted for at least 200 ms before the relay operates, the time circuit is reset to zero and the 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

