

Timers Interval Type EBA



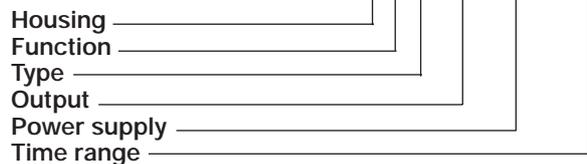
- Time range 0.1 s to 10 h
- Automatic start
- Knob-adjustable time setting
- Knob selection of time range
- Oscillator-controlled time circuit
- Repeatability deviation: $\leq 0.2\%$
- Output: 5A SPDT
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 22.5 mm Euronorm housing
- LED-indication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

Product Description

Mono-function timer with selectable time ranges within 0,1 s to 1 m or 1 m to 10 h. For mounting on DIN-rail. Often used e.g. to empty a conveyor or belt of items.

Ordering Key

EBA C T23 1M



Type Selection

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

Supply: 24 VAC/DC & 115-230 VAC

EBA C T23 1M
EBA C 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. actual time \leq min. set time (range 0,1s - 1 \leq 0,15s)
Repeatability deviation	$\leq 0.2\%$
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	SPDT relay
Rated insulation voltage	250 VAC (contact/elect.)
Contact ratings (AgCdO)	μ (micro gap)
Resistive loads	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 60664) (IEC 60038)
Rated operational voltage through term. A1 & A2 T23	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	20 mA @ 24 VDC
	40 mA @ 24 VAC
	20 mA @ 115 VAC
	40 mA @ 230 VAC

General Specifications

EMC	Electromagnetic Compatibility
Immunity	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	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
CE-marking	Yes

Mode of Operation

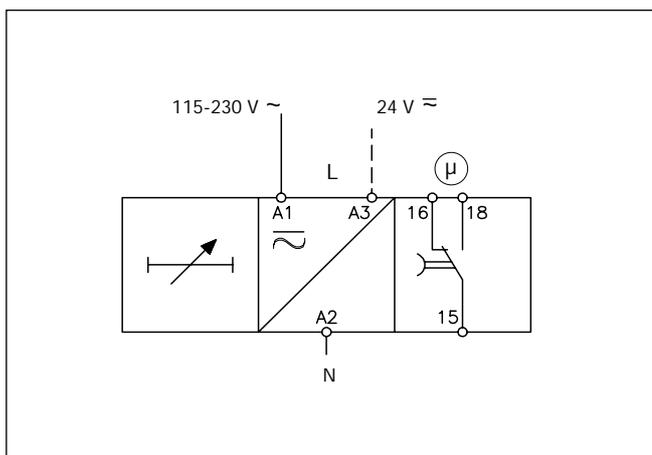
The relay operates and the time period starts when power supply is applied.

At the end of the set time period, the relay releases and will not operate again until power supply is interrupted for at least 200 ms.

If power supply is interrupted for at least 200 ms before the time period has expired, the relay releases and the time cir-

cuit is reset to zero. The relay is ready for a new time period.

Wiring Diagram



Time Setting

Selection of time ranges
Upper knob:
3-position rotary switch.

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

Operation Diagram

