

# Timers Interval Type EBS

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- Fail-safe two-wire connection
- Low-cost
- Multi-voltage: 24-230 VAC
- Interval timer
- Time range: 0,5 s - 10 m
- Knob-adjustable time setting
- Output: SCR 10-500 mA
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 22,5 mm small Euronorm housing

## Product Description

Small, low cost monofunction timer with adjustable time setting. 2-wire connection for easy and fail-safe use (see diagram). For

mounting on DIN-rail or directly on surface by screw. The timer is used e.g. with industrial relays or 3-phase contactors.

## Ordering Key

**EBS S M23 10S**

Housing \_\_\_\_\_  
 Function \_\_\_\_\_  
 Small E-line \_\_\_\_\_  
 Output \_\_\_\_\_  
 Power supply \_\_\_\_\_  
 Time range \_\_\_\_\_

## Type Selection

Mounting	Output	Time range
For DIN-rail	SCR	0,5 - 10 s
or for screw	SCR	0,1 - 1 m
	SCR	1 - 10 m

Supply: 24 - 230 VAC

EBS S M23 10S  
 EBS S M23 1M  
 EBS S M23 10M

## Time Specifications

<b>Time ranges</b>	
10 s	0.5 - 10 s
1 m	0.1 - 1 m
10 m	1 - 10 m
<b>Time range accuracy</b>	Max. setting: actual time $\geq$ max. set time min. setting: actual time $\leq$ min. set time
<b>Repeat accuracy</b>	$\leq 0.2\%$
<b>Time variation</b> Within rated power supply and ambient temperature	$\leq 0.1\%/V$ $\leq 0.2\%/^{\circ}C$
<b>Reset</b> Time and output	Power supply interruption $\geq 200$ ms

## Output Specifications

Output	SCR
<b>Output current</b>	
Maximum load current	500 mArms
Minimum load current	10 mArms
<b>Leakage current</b>	$\leq 3.5$ mArms @ 230 VACrms typ.: 2 mArms
<b>Voltage drop</b>	$\leq 8$ VACrms typ.: 5 VACrms @ 50 mArms

## Supply Specifications

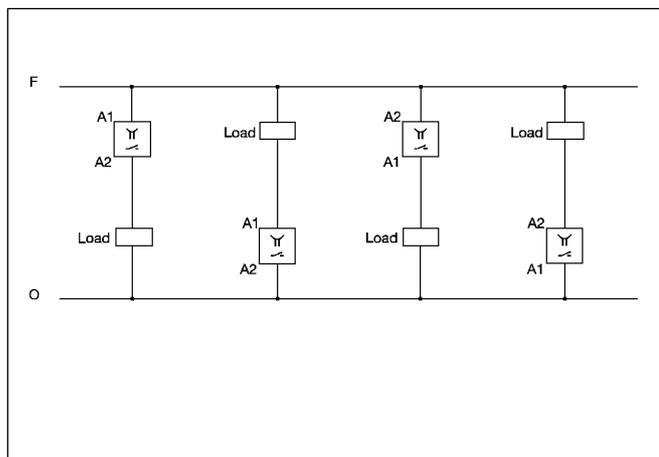
<b>Power supply</b>	Overvoltage cat. III (IEC 664) (IEC 38)
Rated operational voltage	24-230 VAC, -10/+15%
Rated insulation voltage	None



## General Specifications

<b>EMC</b>	Electromagnetic Compatibility
Immunity	Acc. to IEC 801-4 Acc. to IEC 801-5
<b>Power ON delay</b>	≤ 100 ms
<b>Power OFF delay</b>	≥ 200 ms
<b>Environment</b>	
Degree of protection	IP 20
Pollution degree	3
Operating temperature	-20° to +50°C (-4° to +122°F)
Storage temperature	-30° to +80°C (-22° to +176°F)
<b>Weight</b>	50 g
<b>Dimensions</b>	49 x 22.5 x 56 mm (L x W x H)
<b>Approvals</b>	UL, CSA

## Wiring Diagram



## Operation Diagram

