Timers Symmetrical Recycler **Type ECS**





FASTON

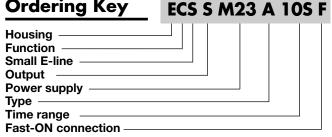
Product Description

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 sur-

face by screw. The timer is used e.g. with industrial relays or 3-phase contactors.

- · Fail-safe two-wire connection
- Low-cost
- Multi-voltage: 24-230 VAC
- 2 types: Recycler (Start OFF) Recycler (Start ON)
- Time range: 0.5 s 10 m
- Knob-adjustable time setting
- Output: SCR 10-500 mA (screws) and SCR 10-700mA (Fast-ON)
- For mounting on DIN-rail in accordance with **DIN/EN 50 022**
- 22.5 mm small Euronorm housing

Ordering Key



Type Selection

Mounting	Output	Time range	Connection	Supply: 24 - 230 VAC
For DIN-rail or for screw	SCR	0.5 - 10 s	Screws	ECS S M23 A 10S (OFF)
	SCR	0.1 - 1 m	Screws	ECS S M23 B 10S (ON) ECS S M23 A 1M (OFF)
	SCR	1 - 10 m	Screws	ECS S M23 B 1M (ON) ECS S M23 A 10M (OFF) ECS S M23 B 10M (ON)
For DIN-rail or for screw	SCR	0.5 - 10 s	Fast-ON	ECS S M23 A 10S F (OFF)
	SCR	0.1 - 1 m	Fast-ON	ECS S M23 B 10S F (ON) ECS S M23 A 1M F (OFF)
	SCR	1 - 10 m	Fast-ON	ECS S M23 B 1M F (ON) ECS S M23 A 10M F (OFF) ECS S M23 B 10M F (ON)

Time Specifications

Time ranges 10 S 1 M 10 M	0.5 - 10 s 0.1 - 1 m 1 - 10 m	
Time range accuracy	Max. setting: actual time ≥ max. set time min. setting: actual time ≤ min. set time	
Repeat accuracy	≤ 0.2%	
Time variation Within rated power supply and ambient temperature	≤ 0.1%/V ≤ 0.2%/°C	
Ratio T _{OFF} /T _{ON}	$1 \le \frac{T_{\text{OFF}}}{T_{\text{ON}}} \le 1.1$	
Reset Time and output	Power supply interruption ≥ 200 ms	

Output Specifications

Output	SCR	
Output current		
Maximum load current		
(screw terminals)	500 mA	
(Fast-ON connection)	700 m	
Maximum current for 100 ms		
(screw terminals)	5.5 A	
(Fast-ON connection)	7 A	
Minimum load current	10 m	
Leakage current	≤ 3.5 mA @ 230 V	
-	typ.: 2 m	
Voltage drop	≤ 8 VAC	
- .	typ.: 5 VAC @ 50 mA	

Supply Specifications

Power supply Rated operational voltage	Overvoltage cat. III (IEC 60664) (IEC 60038)	
hated operational voltage	24-230 VAC, -10/+15%	
Rated insulation voltage	None	

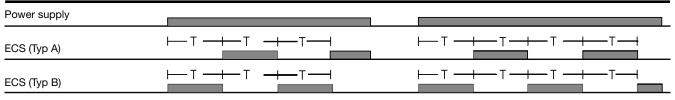
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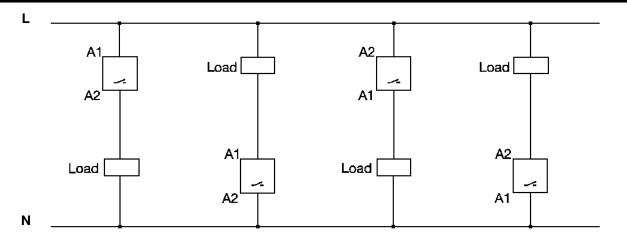
General Specifications

Power ON delay	≤ 100 ms	Dimensions	
Power OFF delay	≥ 200 ms	(Fast-ON connection)	22.5 x 56 x 49 mm
Environment		Material	ABS
Degree of protection	IP 20	Approvals	UL, CSA
Pollution degree	3	CE Marking	Yes
Operating temperature Storage temperature	-20° to +50°C (-4° to +122°F) -30° to +80°C (-22° to +176°F)	EMC	Electromagnetic Compatibility
Weight	50 g	Immunity	Acc. to IEC 60801-4
Housing Dimensions (screw connection)	22.5 x 56 x 49 mm		Acc. to IEC 60801-5
Max. screws tightening torque	0.5 Nm		

Operation Diagram



Wiring Diagram



Dimensions

