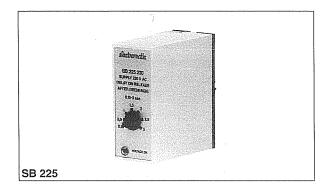
Delay on Release Timer Types SB 125, SB 225





Time ranges: 0.15 s to 600 s Automatic start after drop-out of power supply Knob-adjustable time within range Repeatability deviation: ≤ 1% Outputs: 10 A SPDT or 8 A DPDT relay Plug-in type module S-housing LED-indication for power supply on AC or DC power supply

Product Description

Mono-function, plug-in delay on relase time relays up to 600 s (10 min) covering 5 individual time ranges. Often used in applications where a

second motor has to remain turned on for a certain period of time after the first motor has been turned off.

Ordering Key	SB 125 024 35
Housing ————————————————————————————————————	
Output — Type	
Power supply — Time range — Tim	

Type Selection

Plug	Output	Time ranges	Supply: 24 VAC	Supply: 115 VAC	Supply: 230 VAC	Supply: 12/24 VDC
Circular O	SPDT	0.15 - 3 s 0.8 - 18 s 3 - 60 s 8 - 180 s 30 - 600 s	SB 125 024 3S SB 125 024 18S SB 125 024 60S SB 125 024 180S SB 125 024 600S	SB 125 115 3S SB 125 115 18S SB 125 115 60S SB 125 115 180S SB 125 115 600S	SB 125 230 3S SB 125 230 18S SB 125 230 60S SB 125 230 180S SB 125 230 600S	SB 125 724 3S SB 125 724 18S SB 125 724 60S SB 125 724 180S SB 125 724 600S
Circular O	DPDT	0.15 - 3 s 0.8 - 18 s 3 - 60 s 8 - 180 s 30 - 600 s	SB 225 024 3S SB 225 024 18S SB 225 024 60S SB 225 024 180S SB 225 024 600S	SB 225 115 3S SB 225 115 18S SB 225 115 60S SB 225 115 180S SB 225 115 600S	SB 225 230 3S SB 225 230 18S SB 225 230 60S SB 225 230 180S SB 225 230 600S	SB 225 724 3S SB 225 724 18S SB 225 724 60S SB 225 724 180S SB 225 724 600S

Time Specifications

Time ranges	0.15 - 3 s 0.8 - 18 s 3 - 60 s 8 - 180 s 30 - 600 s	Repeatability deviation	≤1%
		Time variation Within rated power supply and ambient temperature	≤ 0.05%/V ≤ 0.2%/°C
Time range accuracy	0 to +20% on max. min. actual time ≤ min. set time	Reset Time	power supply on min. 500 ms



Output Specifications

		SB 125	SB 225	
Output Basic electrical insulation		SPDT relay 250 VAC (RMS) (contact/electronics)	DPDT relay 250 VAC (RMS) (contacts/elec., contact/contact)	
Contact ratings (Ag-CdO Resistive loads Small inductive loads	AC 1 DC 1 or AC 11 DC 11	μ (micro gap) 10 A/250 VAC (2500 VA) 1 A/250 VDC (250 W) 10 A/25 VDC (250 W) 2.5 A/230 VAC 5 A/24 VDC	μ (micro gap) 8 A/250 VAC (2000 VA) 0.4 A/250 VDC (100 W) 4 A/25 VDC (100 W) 25 A/230 VAC 5 A/24 VDC	
Mechanical life		≥ 30 x 10 ⁶ operations	≥ 30 x 10 ⁶ operations	
Electrical life	AC 1	≥ 2.5 x 10 ⁵ operations (at max. load)	≥ 2.5 x 10 ⁵ operations (at max. load)	
Operating frequency		≤ 7200 operations/h	≤ 7200 operations/h	
Insulation voltages Rated insulation voltage Rated transient protect		≥ 2.0 kVAC (RMS) (contact/electronics) 4 kV (1.2/50 µs) (contact/electronics) (IEC 664)	≥ 2.0 kVAC (RMS) (contact/electronics) 4 kV (1.2/50 μs) (contact/electronics) (IEC 664)	

Supply Sp	ecification	ons	
Power supply AC t Rated operationa through pins 2 &	l voltage	installation cat. III (IEC 664) 230 VAC ± 15%, 45 to 65 Hz	
Dropout toleranc Rated insulation Rated transient p	115 024 e voltage	115 VAC ± 15%, 45 to 65 Hz 24 VAC ± 15%, 45 to 65 Hz ≥ 40 ms ≥ 2.0 kVAC (RMS) (supply/elec.) 4 kV (1.2/50 µs) (line/neutral)	
Power supply DC type Rated operational voltage 724 Rated insulation voltage Rated transient protection volt.		installation cat. III (IEC 664) 10 to 28 VDC (pin 2 pos.) ≥ 2.0 kVAC (RMS) 800 V (1.2/50 μs) + / -	
Consumption	AC supply DC supply	2.5 VA 1.5 W	

Mode of Operation

When power supply is applied the relay operates.

When power supply is interrupted, the time period starts and at the end of the set time period, the relay releases.

If power supply is reapplied before the relay releases,

the time is reset and the relay remains on.

Please note

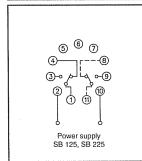
The SB 125/SB 225 should not be operated by pulses shorter than 500 ms.

For this purpose the relays S 112/S 212, operated by means of an external contact function, should be used.

General Specifications

Power-on time		min. 500 ms	
Indication for Power suppl	y ON	LED, red	
Environment Pollution degree Operating temperature Storage temperature		IP 20 B 2 (IEC 664) -20 to +50°C (-4 to +122°F) -50 to +85°C (-58 to +185°F)	
Weight	AC/DC types	200 g/125 g	
Approvals		UL, CSA, SEV	

Wiring Diagram



Time Setting

Knob-adjustable on scale in seconds.

Accessories

Socket◊	S 411		
Hold down spring◊	HF		
Mounting rack	SM 13		
Socket cover	BB 4		
Front mounting bezel	FRS2		
Potentiometer lock	PL 1		
For further information refer			
to "Accessories".			

Operation Diagram

Power supply			
Relay on	<u> </u>	<u>├</u> ──Т-	—