Timers Two-state Relay Type SG 125





- Two-state relay with built-in memory
- Time ranges: 0.15 s to 3 s
- Switches, with a preset delay, to opposite contact position at power supply interruption
- Repeatability deviation: \leq 1%
- Output: 8 A SPDT relay
- Plug-in type module
- S-housing
- LED-indication for relay on
- AC or DC power supply

Product Description

Two-state, plug-in time relays with built-in memory and timer up to 3 s. When interrupting power supply, the contact switches after an adjustable delay to the opposite posi-

tion where it remains. Often used in applications with two pumps in order to prevent the same pump from always starting first.

Ordering Key	SG 125 024
Housing —	
Function — Output — O	
Type — Power supply —	

Type Selection

Plug	Output	Time range	Supply: 24 VAC	Supply: 115 VAC	Supply: 230 VAC	Supply: 24 VDC
Circular	SPDT	0.15 -3 s	SG 125 024	SG 125 115	SG 125 230	SG 125 724

0 to +20% on max. min. actual time ≤ min. set time ≤ 1% ≤ 0.2%/°C ≤ 0.05%/V
≤ 0.2%/°C ≤ 0.05%/V
≤ 0.05%/V
> ant dalay
≥ set delay

Output Specifications

SPDT relay Basic electrical insulation	250 VAC (rms) (contact/electronics)
Contact ratings (AgCdO) Resistive loads AC 1 DC 1 or	μ (micro gap) 10 A/250 VAC (2000 VA) 1 A/250 VDC (100 W) 4 A/25 VDC (100 W)
Small inductive loads AC 15 DC 13	2.5 A/230 VAC 5 A/24 VDC
Mechanical life	≥ 30 x 10 ⁶ operations
Electrical life AC 1	≥ 2.5 x 10 ⁵ operations (at max. load)
Operating frequency	≤ 7200 operations/h
Insulation voltages Rated insulation voltage Rated transient protection volt.	≥ 2.0 kVAC (rms) (cont./elec.) 4 kV (1.2/50 μs) (cont./elec.) (IEC 60664)



Supply Specifications

Power supply AC t Rated operational		Installation cat. III (IEC 60664)	
through pins 2 & 1	0 230 115 024	230 VAC ± 15%, 45 to 65 Hz 115 VAC ± 15%, 45 to 65 Hz 24 VAC ± 15%, 45 to 65 Hz	
Drop-out tolerance Rated insulation von Rated transient pro-	e oltage	≥ 40 ms ≥ 2.0 kVAC (rms) (supply/elec.)	
Power supply DC 1		(line/neutral) Installation cat. III (IEC 60664)	
Rated operational volt. 724 Rated insulation voltage Rated transient protection volt.		24 VDC ± 15% (pin 2 pos.) None	
Consumption	AC supply DC supply	2.5 VA 1.5 W	

General Specifications

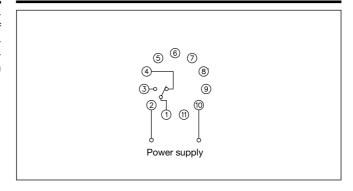
Power ON tim	ie	≥1 s	
Power OFF de	elay	≥ set delay	
Indication for			
Output ON		LED. red	
Environment			
Degree of protection		IP 20 B	
Pollution degree		2 (IEC 60664)	
Operating temperature		-20° to +50°C (-4° to +122°F)	
Storage temperature		-50° to +85°C (-58° to +185°F)	
Weight	AC types	200 g	
_	DC types	125 g	
Approvals		UL, CSA	

Mode of Operation

The relay contact remains in its present position (pins 1 and 4 or pins 1 and 3) when power supply is applied.

When interrupting power supply, however, after a delay of 0.15 - 3 s set on the potentiometer the contact switches to the opposite position where it remains.

Wiring Diagram



Accessories

Socket♦ S 411
Hold down spring♦ HF
Mounting rack SM 13
Socket cover BB 4
Front mounting bezel FRS2
Potentiometer lock PL

For further information refer to "Accessories".

For other AC/DC voltages refer to "General Information".

Time Setting

0.15 - 3 s. Knob-adjust

Knob-adjustable on relative scale.

Operation Diagram

Power supply			
Relay ON, pins 1 & 3	⊢T-I	<u></u> ⊢⊤	HT-
Relay ON, pins 1 & 4	HT-I	⊢ T 	HT-