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: ≤ 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 position 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
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**

Time Specifications

Time ranges	0.15 - 3 s
Time range accuracy	0 to +20% on max. min. actual time ≤ min. set time
Repeatability deviation	≤ 1%
Time variation	
Within rated power supply	≤ 0.2%/°C
and ambient temperature	≤ 0.05%/V
Reset	≥ set delay

Output Specifications

SPDT relay		
Basic electrical insulation		250 VAC (rms) (contact/electronics)
Contact ratings (AgCdO)		µ (micro gap)
Resistive loads	AC 1	10 A/250 VAC (2000 VA)
	DC 1	1 A/250 VDC (100 W)
	or	4 A/25 VDC (100 W)
Small inductive loads	AC 15	2.5 A/230 VAC
	DC 13	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		≥ 2.0 kVAC (rms) (cont./elec.)
Rated transient protection volt.		4 kV (1.2/50 µs) (cont./elec.) (IEC 664)

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Supply Specifications

Power supply AC types		Installation cat. III (IEC 664)
Rated operational voltage through pins 2 & 10	230	230 VAC ± 15%, 45 to 65 Hz
	115	115 VAC ± 15%, 45 to 65 Hz
	024	24 VAC ± 15%, 45 to 65 Hz
Drop-out tolerance		≥ 40 ms
Rated insulation voltage		≥ 2.0 kVAC (RMS) (supply/elec.)
Rated transient protection volt.		4 kV (1.2/50 µs) (line/neutral)
Power supply DC type		Installation cat. III (IEC 664)
Rated operational volt.	724	24 VDC ± 15% (pin 2 pos.)
Rated insulation voltage		None
Rated transient protection volt.		800 V (1.2/50 µs)
Consumption	AC supply	2.5 VA
	DC supply	1.5 W

General Specifications

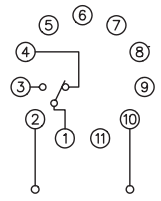
Power ON time		≥ 1 s
Power OFF delay		≥ set delay
Indication for		
Output ON		LED. red
Environment		
Degree of protection		IP 20 B
Pollution degree		2 (IEC 664)
Operating temperature		-20° to +50°C (-4° to +122°F)
Storage temperature		-50° to +85°C (-58° to +185°F)
Weight	AC types	200 g
	DC types	125 g
Approvals		UL, CSA, SEV

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

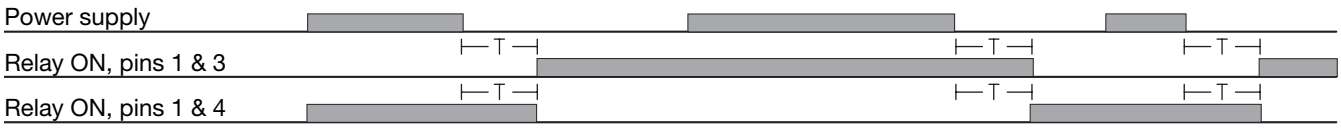
Socket◊	S 411
Hold down spring◊	HF
Mounting rack	SM 13
Socket cover	BB 4
Front mounting bezel	FRS2
Potentiometer lock	PL

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

Time Setting

0.15 - 3 s.
Knob-adjustable on relative scale.

Operation Diagram



Specifications are subject to change without notice