





S3 SERIES S SIZE FORM C (CHANGEOVER) REED RELAY



The S3 series is a compact reed relay with changeover contacts which are often used for safety critical applications.

Low contact resistance, through the use of rhodium contact reed switches, makes the S series suitable for many high voltage applications at DC and low frequency, where performance and reliability are paramount.

These are PCB mount relays, though custom options may be available on request.

Features

- Compact footprint
- Changeover contacts
- PCB Mount
- Available with or without magnetic screen



SPECIFICATIONS

Contact	Unit	Condition			
Switch Action			SPCO		
Contact Material			Rhodium		
Isolation Across Contacts	kV	DC or AC peak	0.20		
Isolation Contact to Coil	kV	DC or AC peak	2		
Switching Power Max.	VA	resistive	3		
Switching Voltage Max.	V	DC	120		
Switching Current Max.	A	DC	0.25		
Carry Current Max	A	DC	1.2		
Capacitance Across Contacts	pF	coil to screen grounded	1.4		
Contact Resistance	m Ω max (typical)		150		
Insulation Resistance	Ω min (typical)		(10 ⁸)		
Coil			5V	12V	24V
Must Operate Voltage	V	DC	3.75	9	18
Must Release Voltage	V	DC	0.5	1.2	2.4
Resistance	Ω (± 10%)		30	180	1000
Note. The operate / release voltage and c	oil resistance will change	at a rate of 0.4% per deg	ree C. Values are stated	l at room temperature (2	O degrees C)

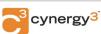


Environmental Conditions	Unit	Condition				
Operating Temperature Range	٦°		-40 to +85			
Storage Temperature Range	°C		-40 to +100			
Shock - EN60068-2-27 11ms Half sine 50g. MIL-STD-202G Method 213B, Test condition A.						
Vibration - EN60068-2-6 Sine vibration 20g peak 10Hz to 2000Hz. MIL-STD-202G Method 204D, Test condition D.						

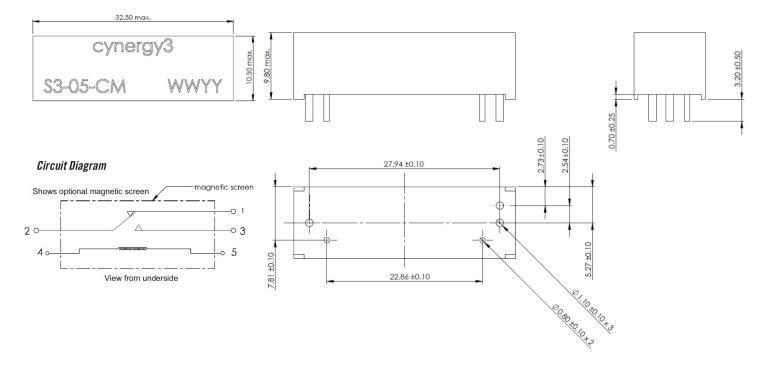


	Coil Voltage Vdc	Magnetic Screen
S3-05-C	5	No
S3-05-CM	5	Yes
S3-12-C	12	No
S3-12-CM	12	Yes

Please refer to this document for circuit design notes: <u>https://www.cynergy3.com/blog/reed-relay-application-notes</u>









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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

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