



| 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	mΩ max (typical)		150		
Insulation Resistance	Ω min (typical)		(10 ⁹)		
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 coil resistance will change at a rate of 0.4% per degree C. Values are stated at room temperature (20 degrees C)

Environmental Conditions	Unit	Condition	
Operating Temperature Range	°C		-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.			



STANDARD PARTS

	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

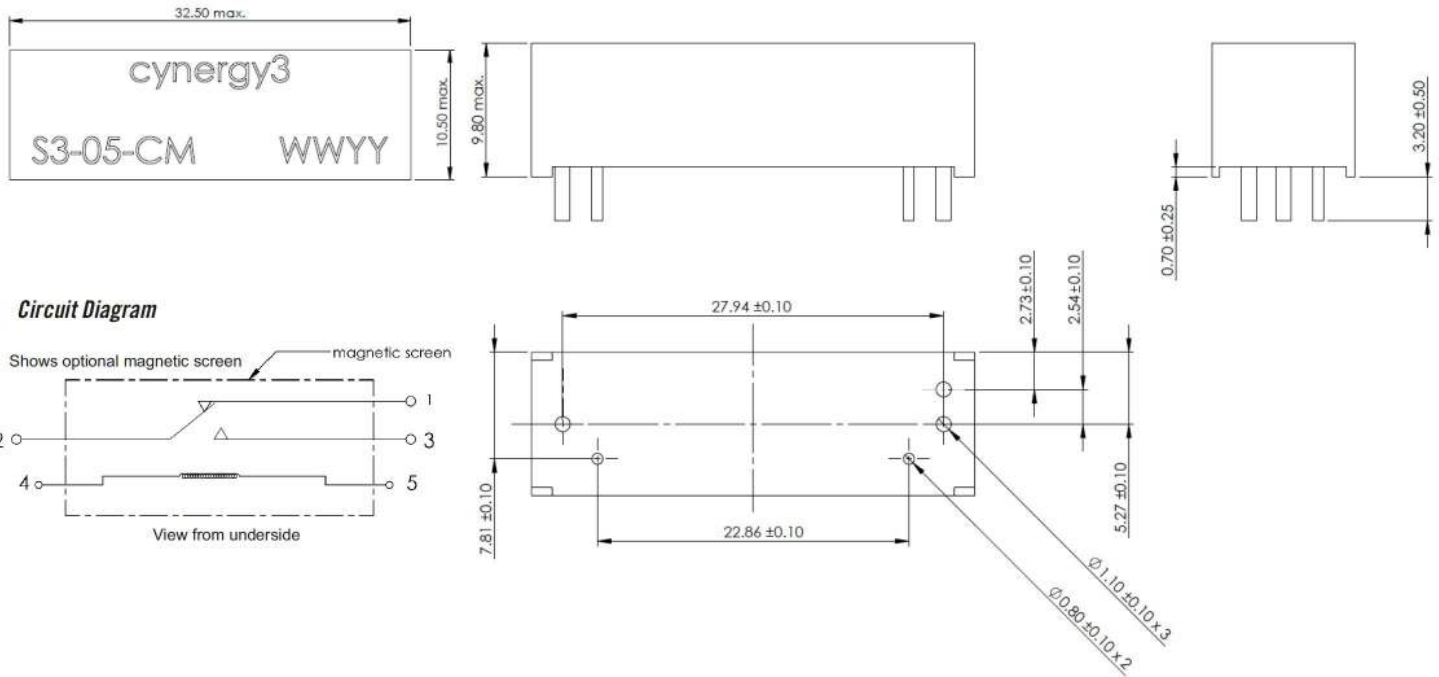
Please refer to this document for circuit design notes:

<https://www.cynergy3.com/blog/reed-relay-application-notes>



DIMENSIONS

All dimensions are in millimeters.



Made in the UK

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