

# 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.

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

Contact Specification	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	Ωmin (typical)	(10 <sup>9</sup> )

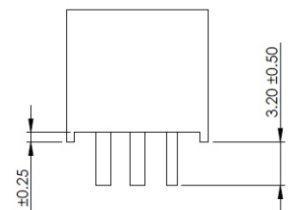
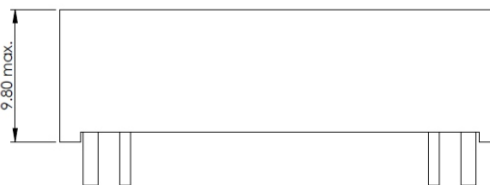
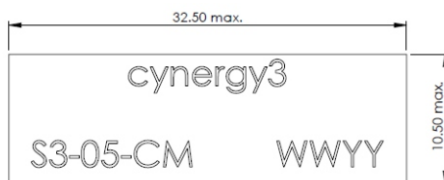
Coil Specification		5V	12V	24V
Must Operate Voltage	V DC	3.75	9	18
Must Release Voltage	V DC	0.5	1.2	2.4
Resistance	Ω (± 10%)	30	180	1000

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)

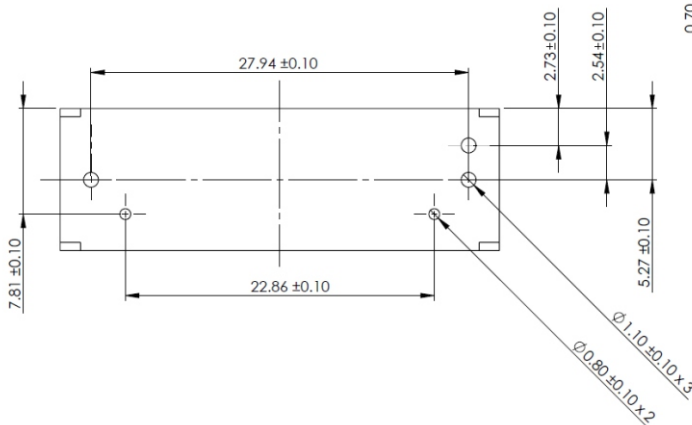
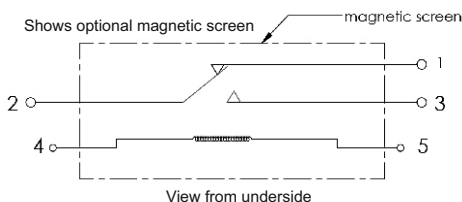
Environmental Conditions	
Operating Temperature Range °C	-40 to +85
Storage Temperature Range °C	-40 to +100

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
S3-24-C	24	No
S3-24-CM	24	Yes

Please refer to this document for circuit design notes:- <http://www.cynergy3.com/blog/application-notes-reed-relays-0>



### Circuit Diagram



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