S Series High Voltage relays

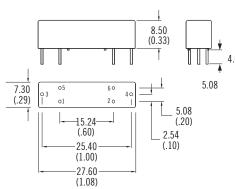


The S series relay was developed for the high voltage ATE market, where printed circuit board space is at a premium. The S series high voltage relay offers a 3kV or 5kV* isolation performance in a 30mm package.

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.

Mechanical Dimensions

All dimensions are in Milliemetres (inches)



PIN SIZE

PINS 1, 2, 5 & 6 0.7 Square (0.025") PINS 3 & 4 0.8 (0.031") dia.

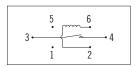
Compact footprint

- Designed specifically for High Voltage ATE
- Rhodium contacts for Low Contact Resistance
- 3kV or 5kV* Isolation between contacts and 5kV isolation between contacts and coil
- Excellent lifetime characteristics

3kV SPNO 5kV SPNO
Rhodium Rhodium
3 5*
10 10
20 20
0.5 0.5
1.5 1.5
d <0.1 <0.1
109 109
106 106
80 (30) 80 (30)
$10^{10} (10^{13})$ $10^{10} (10^{13})$
5V 12V 24V 5V 12V 24V
3.7 9 20 3.7 9 20
0.5 1.25 4 0.5 1.25 4
1.0 1.0 1.0 1.0 1. 10
0.5 0.5 0.5 0.5 0.5 0.5
140 600 1000 140 600 1000
per degree C. Values are stated at room temperature (20 degrees C)
por augres or raises are states at resum temperature (20 augress e)
5 5
$10^{10} (10^{13})$ $10^{10} (10^{13})$
-20 to +70

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

Relay Circuit Diagram



(Viewed from Underside)

Pin 1 is top left, when viewed from above, with respect to part marking

Part Numbering System

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ISO9001 CERTIFIED Made in the UK

A R 9 12 05 **Reed Switch Size** Contact Form A=SPNO **Contact Material** R=Rhodium, Moulding Ref. No. **Coil Voltage** 05=5Vdc. 12=12Vdc. 24=24Vdc Isolation between **Contacts** 3=3kV. 5=5kV

www.cynergy3.com

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