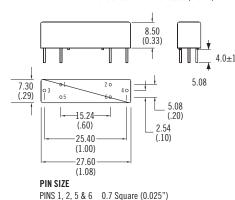


S series high voltage reed relays 5kV, 10W

The S series was developed for the high voltage ATE market, where printed circuit board (PCB) space is at a premium, the S series high voltage reed relay offers a 3 or 5* kV isolation performance in a 30mm size package. With low contact resistance, the S series is 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)



0.8 (0.031") dia.

CIRCUIT DIAGRAM

PINS 3 & 4



(Viewed from Underside)

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cynergy³_{components}™



- # Compact Footprint
- # Designed Specifically for High Voltage
- # Rhodium Contacts for Low Resistance
- # 3 or 5kV * Isolation Between Contacts
- # Excellent Lifetime Characteristics

Contact	Units	Conditions	3kV Form A	5kV Form A	
Contact Materials			Rhodium	Rhodium	
Isolation Across Contacts	kV	DC or AC peak	3	5*	
Max. Switching Power	W		10	10	
Max. Switching Voltage	٧	DC or AC peak	20	20	
Max. Switching Current	А	DC or AC peak	0.5	0.5	
Max. Carry Current	А	DC or AC rms (60Hz)	1.5	1.5	
Capacitance Across Conta	cts pF	Coil/Screen Grounded	<0.1	<0.1	
Lifetime	Operations	Dry Switching	10 ⁹	10 ⁹	
Lifetime	Operations	10W Switching	108	108	
Contact Resistance	m0hms	Maximum (Typical)	80 (30)	80 (30)	
Insulation Resistance Cont to All Other Terminals	tact Ohms	Minimum (Typical)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)	
Coil at 20℃			5V 12V 24V	5V 12V 24V	
Must Operate	٧	DC	3.7 9 20	3.7 9 20	
Must Release	٧	DC	0.5 1.25 3	0.5 1.25 3	
Operate Time	ms	Diode Fitted	1.0 1.0 1.0	1.0 1.0 1.0	
Release Time	ms	Diode Fitted	0.5 0.5 0.5	0.5 0.5 0.5	
Resistance	Ohms		140 600 1000	140 600 1000	
Construction					
Isolation Contact to Coil to All Other Terminals	kV Ohms	DC or AC peak Minimum (Typical)	5	5	
Environmental					
Operating Temperature Ra	nge ℃		-20 to +70	-20 to +70	

Cynergy3 Parts	Coil Voltage Vdc	Isolation kV	Contact Material
SAR90503	5	3	Rhodium
 SAR91203	12	3	Rhodium
SAR92403	24	3	Rhodium
SAR90505	5	5	Rhodium
 SAR91205	12	5	Rhodium
SAR92405	24	5	Rhodium

Part Numbering System Reedswitch Size SAR91205 ContactForm A Contact Material R: Rhodium Moulding Reference Number Coil Voltage 05:5V, 12:12V, 24:24V Isolation Between Contacts 03:3kV, 05:5kV

* DC only, Pin 3 +HV

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