

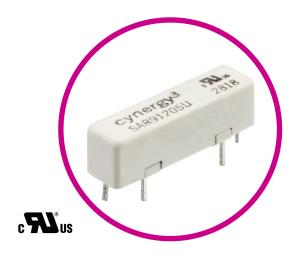






| S(UL) SERIES

UL APPROVED* HIGH VOLTAGE RELAYS



The S(UL) series relay was developed for the high voltage ATE market, where printed circuit board space is at a premium.

Recently approved by UL, the S(UL) 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.

Features

- 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



Contact	Unit Con	dition	3kV SPNO	5kV SPNO
Contact Material			Rhodium	Rhodium
Isolation across contacts	kV	DC or AC peak	3	5*
Switching Power Max.	W		10	10
Switching Voltage Max.	V	DC or AC peak	20	20
Switching Current Max.	А	DC or AC peak	0.5	0.5
Carry Current Max	А	DC or AC peak	1.5	1.5
Capacitance across contacts	pF	coil to screen grounded	<0.1	<0.1
Lifetime Operations	dry switching		10 ⁹	10 ⁹
	10W switching		10 ⁶	10 ⁶
Contact Resistance	mΩ max (typical)		80 (30)	80 (30)
Insulation Resistance	Ω min (typical)		10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)
**DC only, Pin 3 at high voltage				
Coil Specification at 20°C			5V 12V 24V	5V 12V 24V
Must Operate Voltage	V	DC	3.7 9 20	3.7 9 20
Must Release Voltage	V	DC	0.5 1.25 4	0.5 1.25 4
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	Ω		140 600 1000	140 600 1000



Contact	Unit Condition	3kV SPNO	5kV SPNO
Relay			
Isolation contact/coil	kV	5	5
Insulation resistance contact to all terminals	Ω min (typical)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)
Environmental Conditions			
Operating Temp range	°C	-20 to +70	-20 to +70
Weight	gm	3.1	3.1

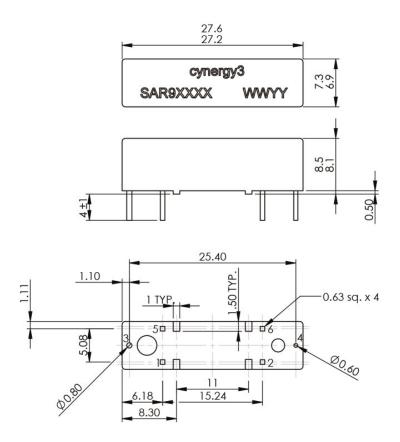
*Consult factory for UL ratings

These products have been UL approved for use as per pollution degree 2 classification.

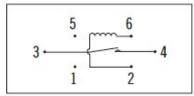
If you require further information as to how this may affect product usage, please contact c3w_sales@cynergy3.com.



All dimensions are in millimeters.



Relay Circuit Diagram



(Viewed from Underside)

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





Made in the UK

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