

### DESCRIPTION

The MSS6 series uses the standard 16-pin DIP package. It is completely sealed and made of plastic material that conforms to UL94 flammability standard. The MSS6 offers more than a billion operations, during which the contact resistance remains stable ( $\pm 5$  mOhms), regardless of load or temperature. A 4000 VRMS input-output isolation is also available.

### FEATURES

- Stable contact resistance over life
- 50W - 500V - 1A switching power
- 4000 Vac input-output isolation
- Bounce-free operation
- High insulation resistance
- Long life > 1 billion operations
- 550 mW input power
- Switching speed of 100Hz - 300Hz
- All position mounting

### APPLICATIONS

- Industrial
- Signaling
- Metering

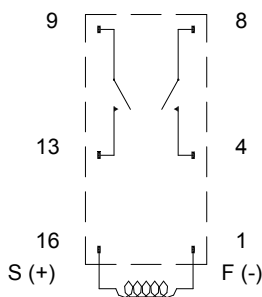
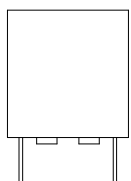
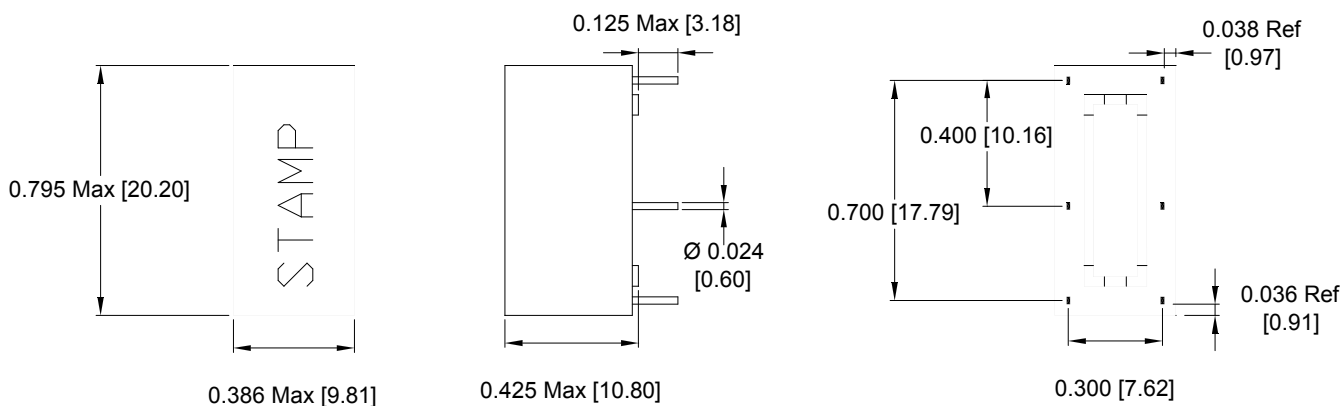
### SPECIFICATIONS

Parameters	Conditions	Min	Typ	Max	Units
<b>Coil Specifications</b>					
Nominal Coil Voltage			24	2434	Volts
Coil Resistance	+/-10%, 25°C	1575	1750	1925	Ohms
Operate Voltage	Must operate by 25°C			18	Volts
Release Voltage	Must release by 25°C	2			Volts
<b>Contact Ratings</b>					
Switching Voltage	Max DC/Peak AC Resistive			500	Volts
Switching Current	Max DC/Peak AC Resistive			1	Amps
Carry Current	Max DC/Peak AC Resistive			3	Amps
Contact Rating	Max DC/Peak AC Resistive			50	Watts
Life Expectancy	Signal Level 1.0V, 10mA	200			$\times 10^6$ Ops
	Signal Level 50mV, 10mA	1			$\times 10^6$ Ops
	Signal Level 500V, 100mA	5			$\times 10^6$ Ops
Static Contact Resistance	50mV, 10mA			150	mOhms
Contact Material			Hg		
<b>Relay Specifications</b>					
Insulation Resistance	Between all isolated pins at 500V, 25°C, 40%RH	$10^8$			Ohms
Capacitance Across Open Contacts	Coil Floating			1.2	pF
Open Contact to Coil Capacitance				3.2	pF
Dielectric Strength	Between Contacts	2000			VDC/Peak AC
	Contacts to Coil	1400			VDC/Peak AC
Operate Time, no bounce	At Nominal Coil Voltage		1.2	1.75	msec
	10Hz Square Wave				
Release Time	Zener-Diode Suppression		1.2	1.7	msec
<b>Environmental Ratings</b>					
Storage Temperature		-40		+105	°C
Operating Temperature		-20		+70	°C



### MECHANICAL DIMENSIONS

Dimensions in inches (mm)



WIRING DIAGRAM

USA 1.866.SRC.8668 EUROPE 44.1225.421999 FAR EAST 866.2.2698.8422

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