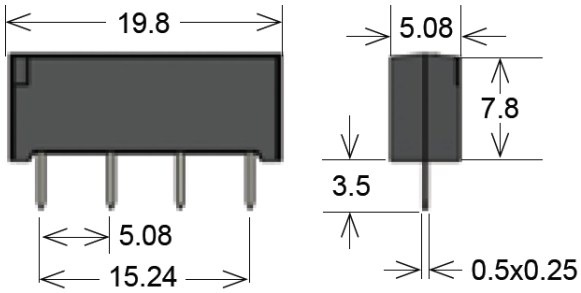
SIL Series
Reed Relays



- Features: Dual In-Line IC Compatible Relay, Available with Dielectric Strength 4.25VDC
- Applications: General Purpose, Measuring and Testing Devices & Others
- Markets: Telecommunications, Test and Measurement, Security & Others

Part Description: SIL 00-0X00-00X

Nominal Voltage	Contact QTY	Contact Form	Switch Model	Pin Out	Option
03, 05, 12, 15, 24	1	A, B, C	31, 72, 75, 90	71, 72, 73, 74,	L, M, D, Q (HR = High Resistance Version)

Customer Options	Switch Model				Unit
Contact Data	**31**	**72**	**75**	**90**	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	50	10	10	10	W
Switching Voltage (max.) DC or peak AC	500	200	500	175	V
Switching Current (max.) DC or peak AC	2	0.5	0.5	0.5	A
Carry Current (max.) DC or peak AC	2	1.0	1.0	1.2	A
Contact Resistance (max.) @ 0.5V & 50mA	80	100	200	150	mOhm
Breakdown Voltage (min.) According to EN60255-5	2,1	0.25	0.6	0.2	kVDC
Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage	1,2	0.5	0.5	0.7	ms
Release Time (max.) Measured with no Coil Excitation	1	0.1	0.1	1.5	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	1010	10^{10}	10^{10}	10^{9}	GOhm
Capacitance (typ.) @ 10kHz across open Switch	0,3	0.3	0.4	1.0	pF

Modifications in the sense of technical progress are reserved.

Coil Data		Coil Voltage (nom.)	Coil Resistance (typ.)	Pull-In Voltage (max.)	Drop-Out Voltage (min.)	Nominal Coil Power (typ.)
Contact Form	Switch Model					
Unit		VDC	Ohm	VDC	VDC	mW
1A	31	05	80	3.5	0.75	312
		12	500	8.4	1.8	288
	72, 75	03*	500	2.1	0.45	18
		05	500 (200)	3.5	0.75	50 (125)
		12	1,000	8.4	1.8	145
		15	2,000	10.5	2.2	110
		24	2,000	16.8	3.6	290
	72	05 HR	1,000	3.5	0.75	25
		12 HR	2,000	8.4	1.8	70
1B, 1C**	90	05	200	3.5	0.75	125
		12	1,000	8.4	1.8	145

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C. * Coil Voltage 03 only available with Switch Model 72. **Contact Form 1C90 only available with Coil Voltage 05 () Data in () are valid for Switch Models 75 and 84.

Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature	-20 to 70	°C
Storage Temperature	-35 to 95	°C
Soldering Temperature (max.) 5 sec. max.	260	°C

Handling & Assembly Instructions

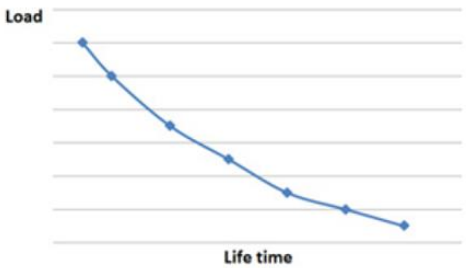
- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields needs to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

SIL Reed Relay

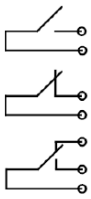


Life Test Data

*Load increase reduces life expectancy of Reed Switches



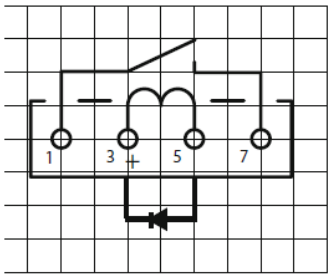
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Glossary Contact Form		
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

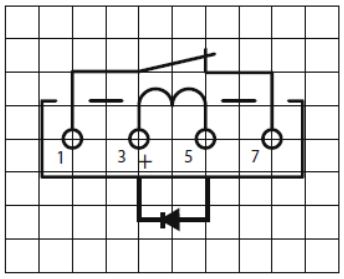
Pin Out

Top View
2.54mm [0.10“] pitch grid

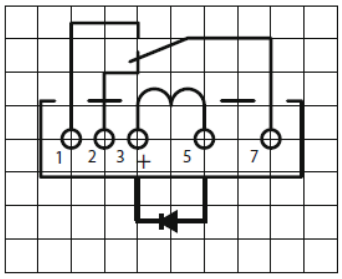
71 Form 1A



71 Form 1B



51 Form 1C



“+” by option with diode

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