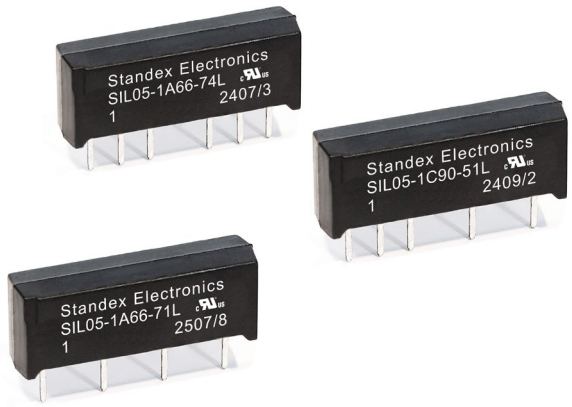
SIL Series Reed Relays

- **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: SIL00-0X00-00X

Nominal Voltage	Contact Quantity & Contact Form	Option	Version
03, 05, 12, 24	1A, 1C	66, 75, 90	L, M, D, Q (HR = High Resistance Version)

Customer Options / Contact Data (@ 20°C)	Switch Model 66	75	90	Unit
Contact Material	Rhodium	Ruthenium	Rhodium	
Rated Power (max.) Any DC combination of V&A not to exceed max. rated power	10	10	10	W
Switching Voltage (max.) DC or peak AC	180	200 DC/150 AC	175	V
Switching Current (max.) DC or peak AC	0.5	0.5	0.5	A
Carry Current (max.) DC or peak AC	1.25	1.0	1.0	A
Contact Resistance (max.) @ 0.5V & 10mA, Measured with 40% Pull-In Overdrive	150	100	150	mOhm
Breakdown Voltage (min.) (upon request)* According to EN60255-27	0.25	250 (PI≥10)/ 200(7 PI<10)	0.2	kVDC
Operating Time (max.) Including Bounce, Measured w/40% Pull-In Overdrive	0.7	0.4	0.7	ms
Release Time (max.) Measured without Coil Suppression	0.05	0.05	1.5	ms
Insulation Resistance (min./typ.) Rh<45%, 100V Test Voltage	10^{10}	10^{10}	10^{9}	Ohm
Capacitance (typ.) @ 10kHz across open Switch	0.3	0.5	1.5	pF

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Coil Data (at 20°C)		Coil Voltage (VDC)		Coil Resistance (Ohm)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Coil Power (mW)
Contact Form	Switch Model	Nominal	Max.	Typical (± 10 %)	Max.	Min.	Nominal
1A	66	5		500	3.5	0.75	50
		12		1,000	8.4	1.8	144
		24		2,000	16.8	3.6	288
	HR	24		2,000	16.8	3.6	288
	75	3		100	2.1	0.45	18
		5		200	3.5	0.75	125
		12		1,000	8.4	1.8	145
		24		2,000	16.8	3.6	290
		24		2,000	16.8	3.6	290
	HR						
1C	90	5		200	3.5	0.75	125

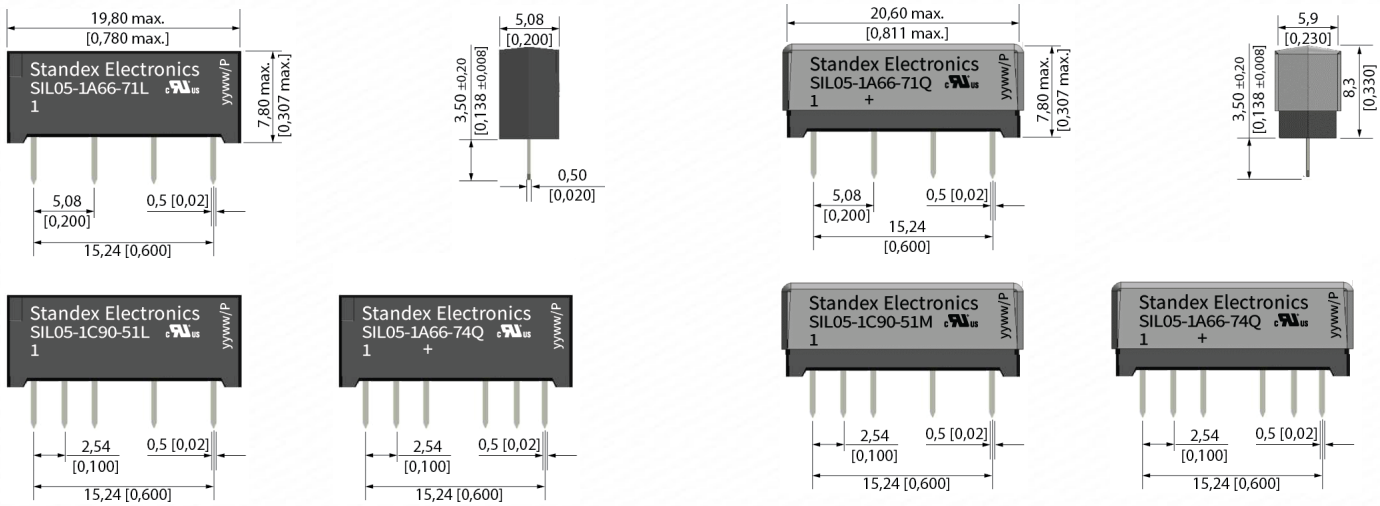
The Pull-In, Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °K The figures in parentheses are for relays in metal casing.

Relay Data (@ 20°C)		Unit
Dielectric Strength Coil/Contact (min.) According to EN60255-27	1.5	kVDC
Insulation Resistance Coil/Contact (min/typ) 1/2 sine wave, 6md, 3-axis	10	GOhm
Capacitance Coil/Contact (typ.) @10 kHZ	1.2	pF
Shock Resistance (max.) 1/2 sine wave, 6md, 3-axis	100	g
Vibration Resistance (max.) 10 – 2,000 Hz	20	g
Operating Temperature (max.) Surrounding of the relay's housing	-40 to 100	°C
Storage Temperature (max.) Surrounding of the relay's housing	-40 to 125	°C
Soldering Temperature (max.) 5 sec. max.	260	°C
Washability Aqueous rinse suitable. Proper drying necessary.	Fully Sealed	

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 - see our website.
- External magnetic fields and magnetic effects, due to adjacent relays in high density matrices that may influence the relays' electrical characteristics, must be taken into consideration.
- Mechanical shock impacts, ex. dropping the relays, may cause immediate or post-installation failure.
- Suppressing coil diode can have a negative influence on total number of switching cycles, especially by switching high voltage
- Wave soldering: maximum 260°C / 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.

Dimensions (in mm [inch]) Tolerances acc. to ISO 2768-m



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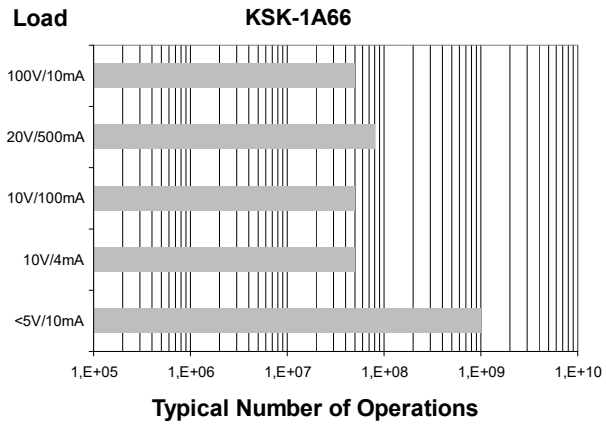
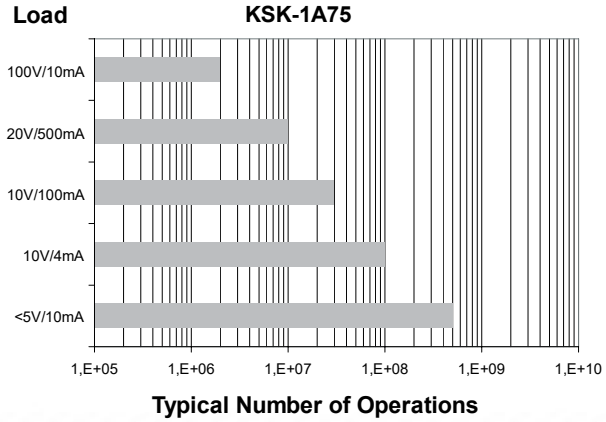
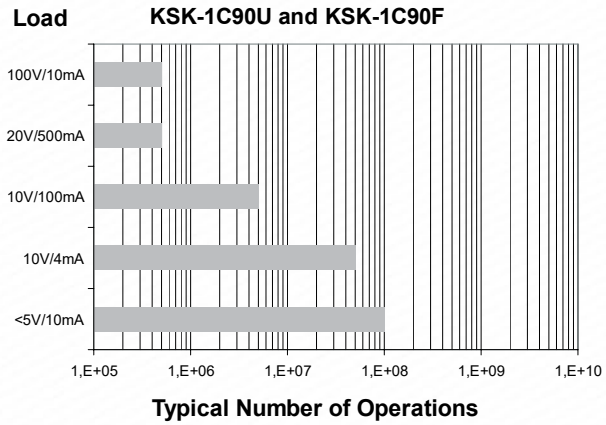
Life Test Data (*Load increase reduces life expectancy of Reed Switches)







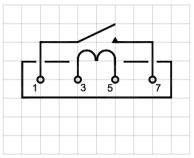
Glossary Relay Options

L	Standard - Internal Magnetic Shield Only
D	Diode and Internal Magnetic Shield
M	Internal and External Magnetic Shield
Q	Diode with Internal and External Magnetic Shield
HR	High Resistance Coil

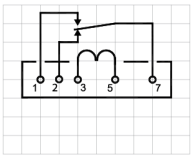
Pin-Out Option

*View from top of component 2.54mm [0.10"] pitch grid

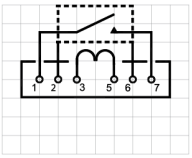
71L/71M Form 1A



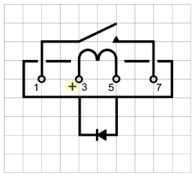
51L/51M Form 1C



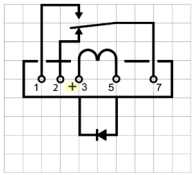
74L/74M Form 1A



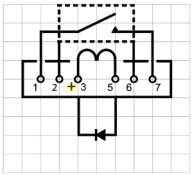
71D/71Q Form 1A



51D/51Q Form 1C



74D/74Q Form 1A



+ Diode option

Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These change will be incorporated in future revisions.

For deviating values, most current specifications and products please contact your nearest sales office.

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