

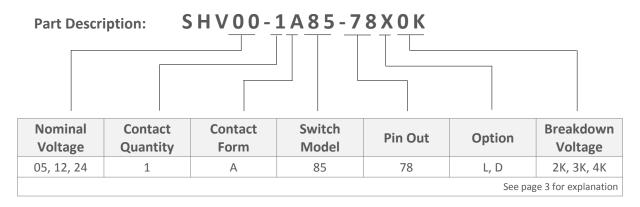
Series Datasheet - SHV Reed Relays

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SHV Series Reed Relays



- Features: Small High Voltage Relay, Dielectric Strength up to 4 kVDC, Internal Magnetic Shield, UL-listed
- > Applications: High Density Assembly, Portable Test and Medical Equipment, Cable and In-Circuit Tester
- Markets: Test & Measurement, ATE, Medical & Others



Contact Data (at 20°C)	Switch Model 85 (A-Dry)	Unit
Contact Material	Rhodium	
Rated Power (max.) Any DC combination of V&A not to exceed max rated power	100	W
Switching Voltage (max.) DC or peak AC	1,000	V
Switching Current (max.) DC or peak AC	1.0	А
Carry Current (max.) DC or peak AC	2.5	А
Contact Resistance (max.) @ 0.5V & 10mA, Measured with 40% Pull-In Overdrive	150	mOhm
Breakdown Voltage (min.) (depending on configuration) According to IEC 60255-27	2/3/4	kVDC
Operating Time (max.) Including Bounce, Measured with 40% Pull-In Overdrive	1.1	ms
Release Time (max.) Measured without Coil Suppression	0.1	ms
Insulation Resistance (min. / typ.) Rh<45%, 100V Test Voltage	10 ¹⁰ / 10 ¹²	Ohm
Capacitance (typ.) @ 10kHz across Open Switch	0.5	pF



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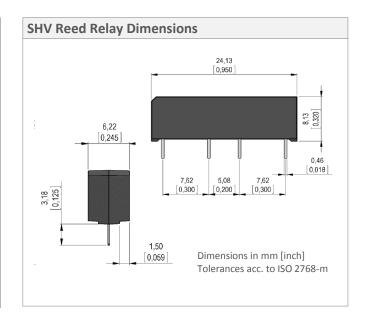


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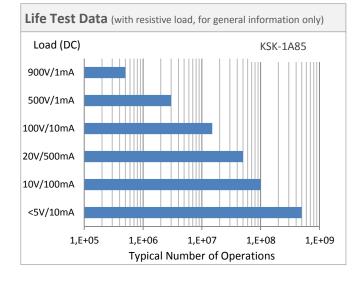
Coil Data (at 20°C)		Coil Voltage	Coil Resistance	Pull-In Voltage	Drop-Out Voltage	Coil Power	
Contact Switch Form Model	Switch	(VI	DC)	(Ohm)	(VDC)	(VDC)	(mW)
	Model	Nominal	Maximal	Typical (± 10 %)	Maximal	Minimal	Nominal
1A 85 (S	85 (2K)	05	7.5	220	3.75	0.5	110
		12	16	500	8.4	1.8	288
	85 (3K)	05	7.5	180	3.75	0.5	139
		12	16	500	8.4	1.8	288
		24	30	2,000	16.4	3.6	288
	85 (4K)	05	7.5	140	3.75	0.5	179
		12	16	500	8.4	1.8	288
		24	30	2,000	16.4	3.6	288

Relay Data (at 20°C)		Unit
Dielectric Strength Coil/Contact (min.) According to EN60255-5	4	kVDC
Insulation Resistance Coil/Contact (min./typ.) Rh<45%, 200V Test Voltage	10 ¹¹ / 10 ¹²	Ohm
Capacitance Coil/Contact (typ.) @ 10 kHz	1.2	рF
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.) 10 – 2,000 Hz	20	g
Operating Temperature (max.) Surrounding of the relay's housing	-40 to 105	°C
Storage Temperature (max.) Surrounding of the relay's housing	-40 to 125	°C
Soldering Temperature (max.) 5 seconds max.	260	°C
Washability Aqueous rinsing suitable. Proper drying necessary	Fully Sealed	



Handing & 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, e.g. 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.





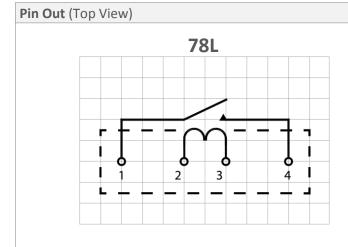
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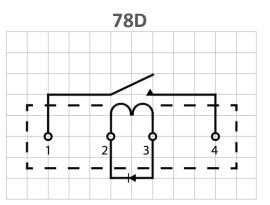
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Pitch 2.54 mm [0.10 inch]

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
Form E	Latching unchanged until an opposite impulse is present
SHV Relays are available only in "Form A" configuration	

Glossary Option	
L	Standard, with Magnetic Shield
D	with Diode, with Magnetic Shield
M	with Magnetic Shield, without Diode
Q	with Diode and Magnetic Shield
HR	High Resistance Coil
SHV Relays are available with "L" and "D" Option	







Breakdown Voltage Option	
2K	2 kVDC across open contact
3K	3 kVDC across open contact
4K	4 kVDC across open contact
Test voltage measured according to IEC 60255-27	

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 changes will be incorporated in future revisions.

For deviating values, latest specifications and product details, please contact your nearest sales office.

