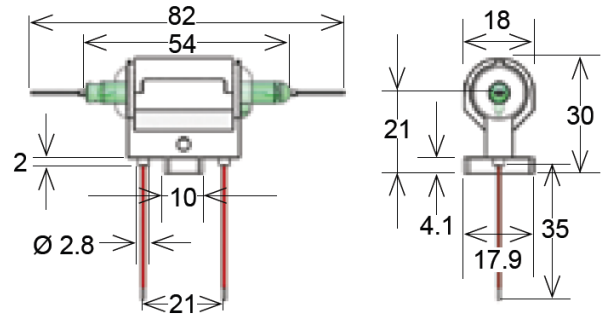# H Series
Reed Relays

- ➤ Features: High Voltage Relay, Open Frame with M4 Screw Mount
- ➤ Applications: Test and Medical Equipment & Others
- ➤ Markets: Medical, Test and Measurement & Others

Part Description: **H 00-1X00**

Nominal Voltage	Contact QTY	Contact Form	Switch Model
12, 24	1	A, B	69, 83

Customer Options	Switch Model		Unit
Contact Data	**69**	**83**	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	50	50	W
Switching Voltage (max.) DC or peak AC	10,000	7,500	V
Switching Current (max.) DC or peak AC	3.0	3.0	A
Carry Current (max.) DC or peak AC	5.0	5.0	A
Contact Resistance (max.) @ 0.5V & 50mA	150	150	mOhm
Breakdown Voltage (min.) According to EN60255-5	15	10	kVDC
Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage	3.0	3.0	ms
Release Time (max.) Measured with no Coil Excitation	1.5	1.5	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10^{10}	10^{10}	Ohm
Capacitance (typ.) @ 10kHz across open Switch	1	1	pF

USA:	+1.866.782.6339		salesusa@standexmeder.com	Version 01
Europe:	+49.7731.8399.0		info@standexmeder.com	27.01.2015
Asia:	+86.21.37820625		salesasia@standexmeder.com	

Modifications in the sense of technical progress are reserved.

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| 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	69, 83	12	230	8.4	1	620
		24	700	18	2	822
1B*	69, 83	12	180	8.4	1	800
		24	360	16.8	2	1,600

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C.
* Re-closure of Form B may occur if the max. coil voltage is exceeded. Coil polarity on Form B must be observed. Pin 2 is positive.

| 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
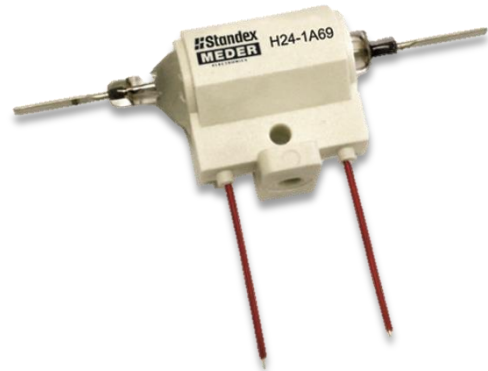
Handling & Assembly Instructions

➢ 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.

H Reed Relay

Life Test Data
*Load increase reduces life expectancy of Reed Switches
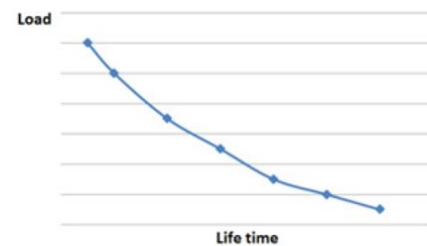
Glossary Contact Form		
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

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