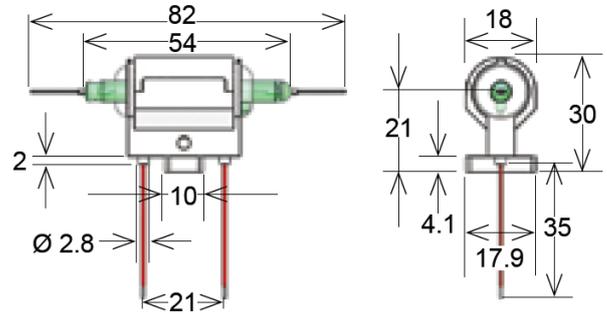


# H Series Reed Relays



- 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 - 1 X 00**

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

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

Series Datasheet – H Reed Relays

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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
<b>Shock Resistance (max.)</b> 1/2 sine wave duration 11ms	50	g
<b>Vibration Resistance (max.)</b>	20	g
<b>Operating Temperature</b>	-20 to 70	°C
<b>Storage Temperature</b>	-35 to 95	°C
<b>Soldering Temperature (max.)</b> 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.

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	

