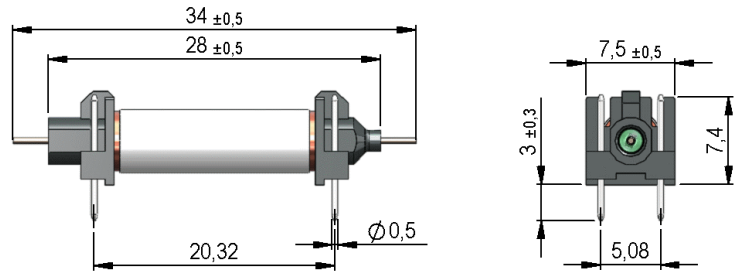


# HI Series Reed Relays



- Features: High Insulation Relay Coil/Contact 100 TOhm, High Leakage Distance
- Applications: Test Systems, Control Systems, Medical Equipment, Measurement Equipment & Others
- Markets: Medical, Test and Measurement & Others

Part-Description: **HI 00-1A00**

Nominal Voltage	Contact QTY	Contact Form	Switch Model
05, 12	1	A	66, 75, 85

Customer Options	Switch Model			Unit
	66	75	85	
<b>Contact Data</b>				
<b>Rated Power (max.)</b> Any DC combination of V&A not to exceed their individual max.'s	10	10	100	W
<b>Switching Voltage (max.)</b> DC or peak AC	200	500	1,000	V
<b>Switching Current (max.)</b> DC or peak AC	0.5	0.5	1.0	A
<b>Carry Current (max.)</b> DC or peak AC	1	1	2.5	A
<b>Contact Resistance (max.)</b> @ 0.5V & 50mA	150	200	150	mOhm
<b>Breakdown Voltage (min.)</b> According to EN60255-5	0.25	1.0	3.0	kVDC
<b>Operating Time (max.)</b> Incl. Bounce; Measured with w/ Nominal Voltage	0.7	0.5	1.1	ms
<b>Release Time (max.)</b> Measured with no Coil Excitation	0.05	0.1	0.1	ms
<b>Insulation Resistance (typ.)</b> Rh<45%, 100V Test Voltage	$10^{12}$	$10^{12}$	$10^{13}$	Ohm
<b>Capacitance (typ.)</b> @ 10kHz across open Switch	0.2	0.2	0.2	pF

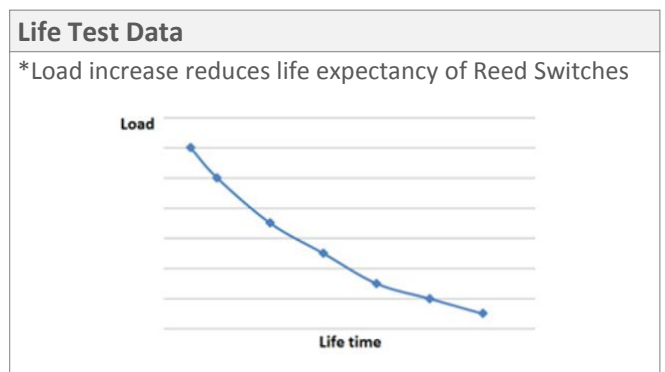
Coil Data		Coil Voltage (nom.)	Coil Resistance (typ.)	Pull-In Voltage (max.)	Drop-Out Voltage (min.)	Nominal Coil Power (typ.)
Contact Form	Switch Model					
Unit		VDC	Ohm	VDC	VDC	mW
1A	66, 75*	05	600	3.5	0.75	42
		12	3,000	8.4	1.8	48
1A	85	05	140	3.5	0.75	179
		12	900	8.4	1.8	160

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C.  
 \* 1A75 only available with Coil Voltage 05

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>	-25 to 85	°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	



**Pin Out**

Top View  
 2.54mm [0.10"] pitch grid

