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Standex-Meder Electronics
HI12-1A85

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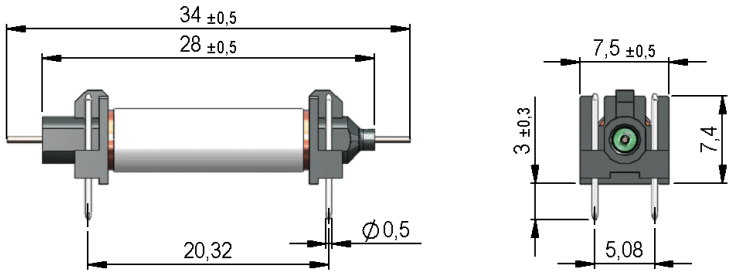
Standex MEDER ELECTRONICS — Custom Engineered Solutions for Tomorrow

A Global Leader in the Design, Development, and Manufacture of Sensor and Magnetic Components

Series Datasheet – HI Reed Relays www.standexmeder.com

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

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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	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
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature	-20 to 70	°C
Storage Temperature	-25 to 85	°C
Soldering Temperature (max.) 5 sec. max.	260	°C

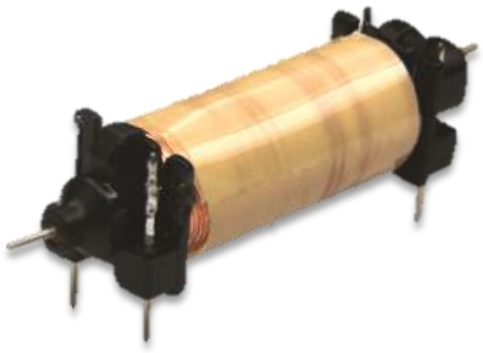
Handling & Assembly Instructions

- 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.

Glossary Contact Form

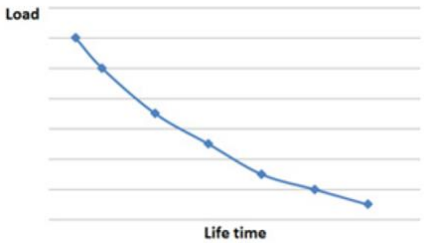
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

HI Reed Relay



Life Test Data

*Load increase reduces life expectancy of Reed Switches



REACH COMPLIANT

RoHS COMPLIANT

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Pin Out

Top View
2.54mm [0.10“] pitch grid