Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
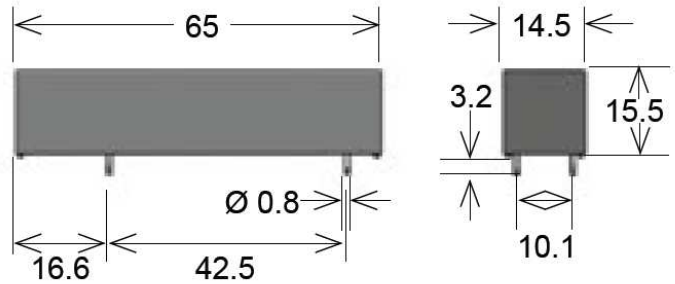

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HE Series
Reed Relays

➤ Features: High Voltage Relay, Through-Hole / Axial Wire Option, Compact Design, Special Pin-Outs

➤ Applications: High Voltage Test Sets, Cable Testers, Medical Equipment & Others

➤ Markets: Medical, Test and Measurement & Others

Part Description: H E 0 0 - 0 X - 0 0 - 0 0

Nominal Voltage	Contact QTY	Contact Form	Switch Model	Pin Out
05, 06, 12, 24, 48	1, 2	A, B	69, 83	02, 03, 150, 300

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^{12}	10^{12}	Ohm
Capacitance (typ.) @ 10kHz across open Switch	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	69	12	110	9	1	1,310
		24	465	18	2	1,240
	83	12	260	9	1	554
		24	1050	18	2	554
1B*	69	12	260	9	1	554
		24	1,050	18	2	548
	83	12	410	9	1	351
		24	1,520	18	2	378
2A	83	12	140	9	1	1,000

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.

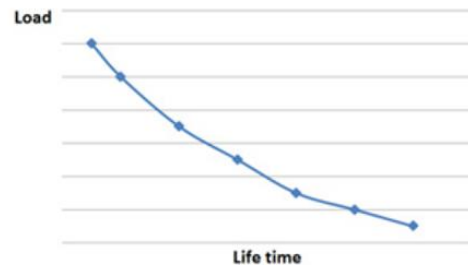| Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature	-20 to 70	°C
Storage Temperature	-35 to 105	°C
Soldering Temperature (max.) 5 sec. max.	260	°C

HE Reed Relay

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.

Life Test Data

*Load increase reduces life expectancy of Reed Switches

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Europe: +49.7731.8399.0 | info@standexmeder.com
Asia: +86.21.37820625 | salesasia@standexmeder.com

Version 01
27.01.2015

Modifications in the sense of technical progress are reserved.

Glossary Contact Form

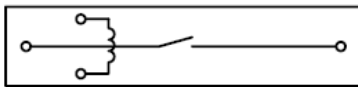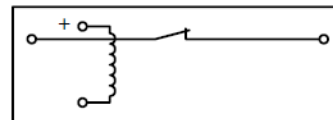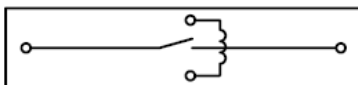|		
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

Pin Outs

Dimensions available in Product Datasheets.
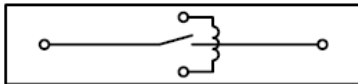
HExx - 1A83 - 02
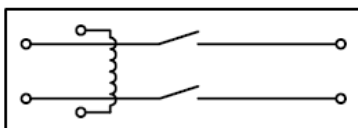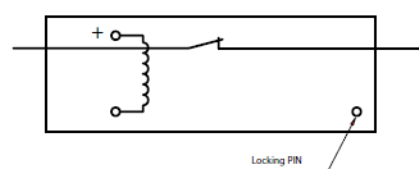HExx - 1A69 - 02

HExx - 1A83
HExx - 1A69

HExx - 1B

HExx - 1A83 - 03
HExx - 1A69 - 03

Locking PIN
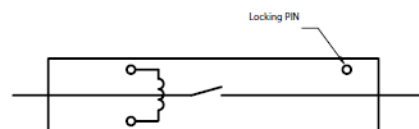
HExx - 1A83 - 150
HExx - 1A69 - 150

HExx - 2A

HExx - 1B83 - 150
HExx - 1B69 - 150

Locking PIN

Modifications in the sense of technical progress are reserved.