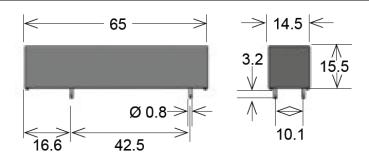


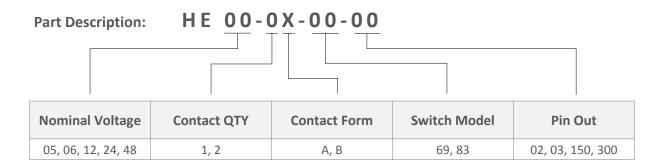
Series Datasheet – HE Reed Relays

www.standexmeder.com

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



Customer Options	Switch Model		Unit
Contact Data	69	83	Onit
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	А
Carry Current (max.) DC or peak AC	5.0	5.0	А
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



USA: +1.866.782.6339 Europe: +49.7731.8399.0 Asia: +86.21.37820625 | salesusa@standexmeder.com | info@standexmeder.com | salesasia@standexmeder.com



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Coil Data		Coil Voltage	Coil Resistance	Pull-In Voltage	Drop-Out Voltage	Nominal Coil Power
Contact Form	Switch Model	(nom.)	(typ.)	(max.)	(min.)	(typ.)
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
18*	60	12	260	9	1	554
	69	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.

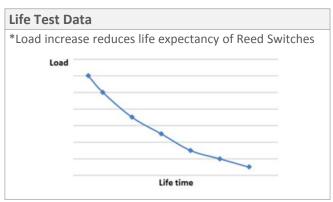
^{*} Re-closure of Form B may occur if the max. coil voltage is exceeded. Coil polarity on Form B must be observed. Pin 2 is positive.

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

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.







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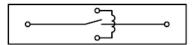
Glossary Contact Form			
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw		
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw		
Form C	Changeover SPDT = Single Pole Double Throw		





Pin Outs

Dimensions available in Product Datasheets.



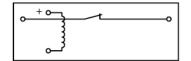
HExx - 1A83 - 02

HExx - 1A69 - 02

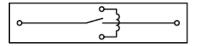


HExx - 1A83

HExx - 1A69

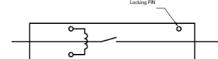


HExx - 1B



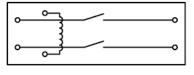
HExx - 1A83 - 03

HExx - 1A69 - 03

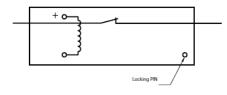


HExx - 1A83 - 150

HExx - 1A69 - 150



HExx - 2A



HExx - 1B83 - 150

HExx - 1B69 - 150