

APPLICATIONS

- High voltage test sets
- Cable testers
- Medical equipment (RF surgery)

DESCRIPTION

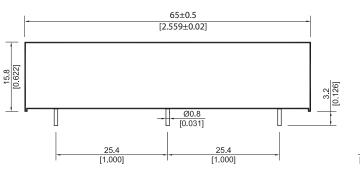
High voltage Reed Relays for PCB mounting suitable for switching up to 10 kVDC and breakdown voltage up to 15 kVDC. This series is available with high voltage cables. Standard relays available in 1 Form A and 1 Form B switching configurations.

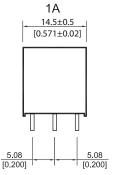
FEATURES

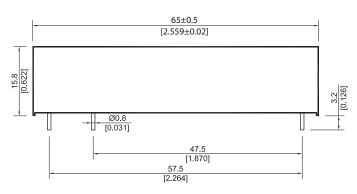
- Power switching up to 50 W available
- Special pin outs available
- 1 Form A and 1 Form B are standard
- · Various case sizes and cable lengths available
- Air- and creeping distances ≥ 26 mm

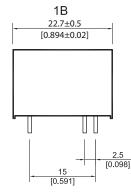
DIMENSIONS

All dimensions in mm [inch]



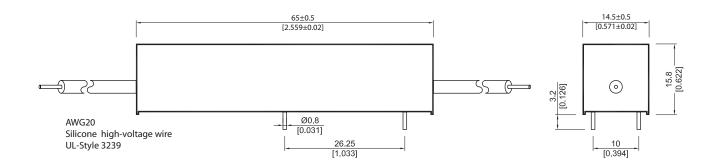






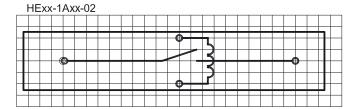
DIMENSIONS

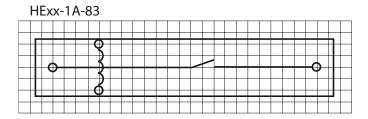
All dimensions in mm [inch]



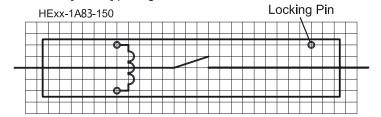
PIN OUT

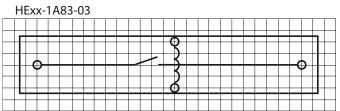
View from top of component 2.54mm [0.100"] pitch grid

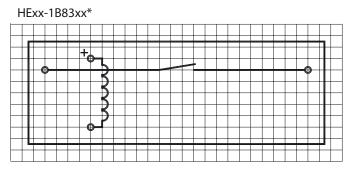


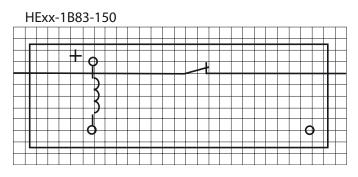


View from top of component 2.5mm [0.098"] pitch grid









^{*} Version 2A available.

RELAY DATA

All Data at 20° C	Switch Model → Contact Form →	Switch 69 Form A / B			Switch 83 Form A / B			
Contact Ratings	tact Ratings Conditions		Тур.	Max.	Min.	Тур.	Max.	Unit
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			50			50	W
Switching Voltage	DC or peak AC			10			7.5	kV
Switching Current	DC or peak AC			3.0			3.0	А
Carry Current	DC or peak AC			5.0			5.0	А
Static Contact Resistance	w/ 0.5 V & 10mA			150			150	mΩ
Insulation Resistance 100 volts applied	Across Contacts Contacts - Coil	10 ¹³ 10 ¹³			10 ¹³ 10 ¹³			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	15 10			10 10			kVDC
Operation Time incl. Bounce	Measured w/ nominal voltage			3.0			3.0	ms
Release Time	Measured w/ no coil suppression			1.5			1.5	ms
Capacitance	at 10 kHz cross contact		0.8 8			0.8 5.0		pF
Life Expectancies								
Switching 5 V - 10 mA	DC only & <10 pF stray cap.					50		10 ⁶ Cycles
For other load requirements plea	ase see our life test section.							
Environmental Data								
Shock Resistance	1/2 sinus wave duration 11 ms			30			30	g
Vibration Resistance	From 10 - 2000 Hz			10			10	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	-20		70	°C
Stock Temperature	10°C/ minute max. allowable	-35		105	-35		105	°C
Soldering Temperature	5 sec.			260			260	°C

COIL DATA

Contact Form	Switch Model	l	oil tage	Coil Resistance		Pull-in Voltage	Drop-out Volage	Nominal Coil Power	
All Data		VDC		Ω			VDC	VDC	mW
at 2	at 20 °C		Max.	Min.	Тур.	Max.	Max.	Min.	Тур.
1A 69 83		5	7.5	45	50	55	3.8	0.5	500
		12	16	225	250	275	9	1	575
		24	30	900	1000	1100	18	2	575
1B *	83	5	7.5	90	100	110	3.8	0.5	250
		12	16	360	400	440	9	1	360
		24	30	1350	1500	1650	18	2	385

The pull-in / drop-out voltage and coil resistance will change at rate of 0.4% per $^{\circ}\text{C}.$

ORDER INFORMATION

Part Number Example

HE12 - 1A83 - 02

12 is the nominal voltage **1A** is the contact form

83 is the switch model

02 is the pinout

Series	Nominal Voltage	Contact Form	Switch Model	Pin Out	
HE	XX -	XX	XX		
Options	05, 12, 24	1 A	69	02, 03	
		1 A	83	02. 03, 150	
		1 B	03	150	

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