

## High Voltage Reed Relays



## CHARACTERISTICS

- Coil covered with a thermoplastic that meets UL94V-0

## DESCRIPTION

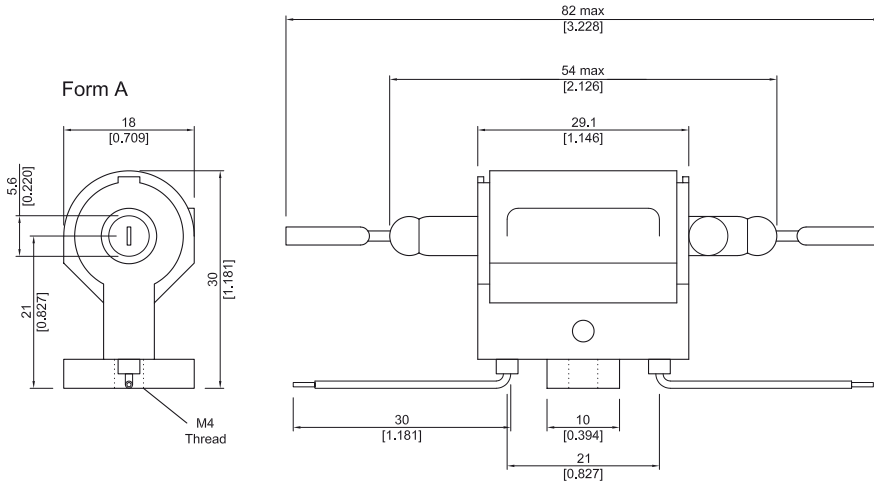
High voltage relay having up to 10 kVDC switching and 15 kVDC breakdown voltage contact to coil.

## FEATURES

- Form A and B options
- Switching up to 10 kVDC
- 1000 Gigaohm between coil and contact
- Breakdown voltage of 15 kVDC

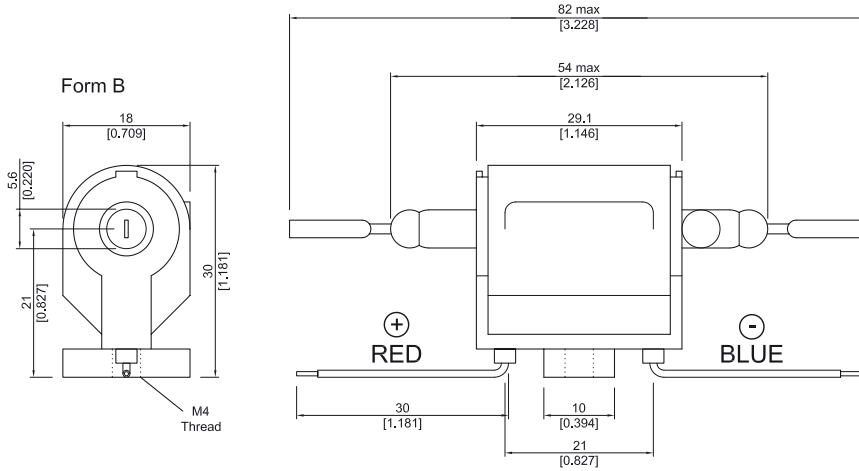
## DIMENSIONS

All dimensions in mm [inches]



**DIMENSIONS**

All dimensions in mm [inches]



**ORDER INFORMATION**

Series	Nominal Voltage	Contact Form	Switch Model
H	XX -	1X	XX
Options	05, 12, 24	A, B	69, 83

**Part Number Example**

H24 - 1A83

**24** is the nominal voltage  
**1A** is the contact form  
**83** is the switch model

## High Voltage Reed Relays

### RELAY DATA

All Data at 20° C	Switch Model → Contact Form →	Switch 69 Form A / B			Switch 83 Form A / B			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	
<b>Contact Ratings</b>	<b>Conditions</b>							
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	A
Carry Current	DC or peak AC			5.0			5.0	A
Static Contact Resistance	w/ 0.5 V & 10mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200			200	mΩ
Insulation Resistance across Contacts	100 volts applied	10 <sup>10</sup> 10 <sup>12</sup>			10 <sup>9</sup> 10 <sup>12</sup>			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	15 15			10 15			kVDC
Operation Time incl. Bounce	Measured w/ 100 % overdrive			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 8		pF
<b>Life Expectancies</b>								
Switching 5 V - 10 mA	DC only & <10 pF stray cap.		NA			50		10 <sup>6</sup> Cycles
For other load requirements please see our life test section on P. 112.								
<b>Environmental Data</b>								
Shock Resistance	1/2 sinus wave duration 11 ms			50			30	g
Vibration Resistance	From 10 - 2000 Hz			20			10	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	-20		70	°C
Stock Temperature	10°C/ minute max. allowable	-25		85	-25		85	°C
Soldering Temperature	5 sec.			260			260	°C

**COIL DATA**

Contact Form	Switch Model	Coil Voltage		Coil Resistance			Pull-in Voltage	Drop-out Voltage	Nominal Coil Power
All Data at 20 °C		VDC		Ω			VDC	VDC	mW
		Nom.	Max.	Min.	Typ.	Max.	Max.	Min.	Typ.
1A	69 83	5	7.5	36	40	44	3.5	0.75	625
		12	16	207	230	253	8.4	1.8	625
		24	30	630	700	770	16.8	3.6	822
1B **	69 83	5	7.5	36	40	44	3.5	0.75	625
		12	16	162	180	198	8.4	1.8	800
		24	30	585	650	715	16.8	3.6	886

\* 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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Reed Relays](#) category:*

*Click to view products by [MEDER](#) manufacturer:*

Other Similar products are found below :

[CUPE001A624](#) [CUPE004A605](#) [8000-0217](#) [922A06C4C](#) [PRMA1A24B](#) [HGS1021](#) [HGS1048](#) [HGZM1C24](#) [HGZM2C05](#) [HGZM2C12](#)  
[HGZM2C48](#) [134MPCX-3](#) [MSS62A05](#) [MSS71A05](#) [MSS71A05B](#) [MSS71A12](#) [MSS71A12B](#) [MSS71A24](#) [HYR2001-1520](#) [9000-0153](#) [2600-0308](#) [2653-12-310](#) [2610-12-310](#) [2611-05-310](#) [PRMA1B05B](#) [2653-05-310](#) [HGP1005](#) [HGS1019](#) [HGS2M5114](#) [HGZM1C05](#) [HGZM1C12](#)  
[HGZM1C48](#) [3-1393771-5](#) [3432-12-91](#) [CUPV50020](#) [HYR2031-1520](#) [V23100V4305C11](#) [W107DIP-43](#) [W193RE1C3-12G](#) [W193RE2A3-12G](#)  
[W193RE2C3-24G](#) [W193RE3A3-24G](#) [W193RE3C3-24G](#) [W193RE4C3-12G](#) [5000-0242](#) [W193RE4C3-24G](#) [W193RE4A3-24G](#) [W193RE4A3-12G](#) [W193RE2C3-12G](#) [W193RE2A3-24G](#)