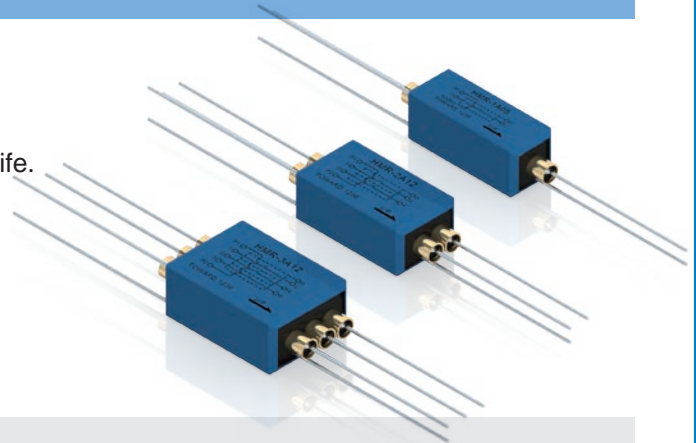


# HMR Series

## 1a, 2a, 3a Hi-Voltage Wet Reed Relay

### Features

- Ultra High Insulation Resistance Relay.
- High Reliability, hermetically sealed contacts for long life.
- External magnetic and electrostatic shield.



### Order Code

HMR-  $\frac{XX}{a} \frac{X}{b} \frac{X-X}{c-d}$

a : Contact Form : 1A=1 Form A, 2A=2 Form A, 3A=3 Form A  
 b : Nominal Coil Voltage : 1=24VDC, 2=12VDC, 4=5VDC  
 c : NoI=No Electrostatic Shield, S=Electrostatic Shield  
 d : Switch Type : A=High Voltage, B=High current, C=Non-Position, D=Standard

### Coil Data-Standard Type (at 20°C)

Part Number	Nominal Voltage DC $\pm 10\%$ [V]	Coil Resistance $\pm 10\%$ [ohm]	Nominal Current [mA]	Must Release Voltage MIN. [V] at 20°C	Must Operate Voltage MAX. [V] at 20°C
HMR-1A HMR-2A	05	100	50.0	0.5	4.0
	12	400	30.0	1.2	8.8
	24	1600	15.0	2.0	18.0
HMR-3A	05	50	100.0	0.5	4.0
	12	300	40.0	1.2	8.8
	24	800	30.0	2.0	18.0

### Contact Specifications

Relay Model	HMR-XXXS-A	HMR-XXXS-B	HMR-XXXS-C	HMR-XXXS-D
Contact Rating Max DC/PEAK AC Resistance	50W	50W	50W	50W
Switching Voltage Max DC/PEAK AC Resistance	1500V	1000V	500V	500V
Max.Switching Current Max DC/PEAK AC Resistance	2.0A	1.0A	2.0A	2.0A
Max.Carry Current Max DC/PEAK AC Resistance	3.0A	5.2A (30°C ) 2.6A (60°C )	2.0A	3.0A



**Specification**

Relay Model	HMR-XXXS-A	HMR-XXXS-B	HMR-XXXS-C	HMR-XXXS-D
Contact Resistance	100mΩ			
Dielectric Strength(static): Between contacts	2000VDC		1500VDC	2000VDC
contacts to shield	2500VDC		2500VDC	2500VDC
contact/shield to coil	2500VDC		2500VDC	2500VDC
Insulation Resistance (except shields to coil)	10 <sup>12</sup> Ω	10 <sup>13</sup> Ω	10 <sup>12</sup> Ω	10 <sup>12</sup> Ω
Operate Time	2.5mS			
Release Time	2.0mS			
Vibration	10G (10HZ ~ 500HZ)	20G'S ~ 2000HZ	20G (10HZ ~ 500HZ)	10G (10HZ ~ 500HZ)
shock	30G	50G	50G	30G
Operating Temp	-10°C ~+60°C			
Storage Temp	-20°C ~+80°C			
Life Expectancy	1VDC-10mA 1x10 <sup>9</sup> operations	1VDC-10mA 1x10 <sup>9</sup> operations	1VDC-10mA 5x10 <sup>8</sup> operations	1VDC-10mA 1x10 <sup>9</sup> operations
	500VDC-100mA 5x10 <sup>7</sup> operations	500VDC-100mA 5x10 <sup>7</sup> operations	500VDC-100mA 5x10 <sup>6</sup> operations	500VDC-100mA 5x10 <sup>7</sup> operations

**Dimensions (Unit : mm)**

