## **Power Relays**





## **Coil Data**

Nominal Voltage : 12, 24V DC

Coil Resistance : Refer to coil data chart
Operate Voltage : Refer to coil data chart
Release Voltage : Refer to coil data chart

Nominal Power : 540mW

## **Contact Data**

Contact Form : 1 form C
Contact Material : Ag Alloy

Contact Rating : Resistive : 16A 250V AC / 30V DC, TV-8

Inductive: 8A 250V AC / 30V DC (Cos Ø = 0.4, L/R = 7ms)

Max. Switching Voltage : 250V AC / 30V DC

Max. Switching Current : 16A

Max. Switching Power : 4000VA, 480WMin. Switching Load : 5V DC, 100mAMax. Contact Resistance :  $50m\Omega$  (6V DC 1A)

Life

Electrical : 100,000 operations.

Mechanical : 10,000,000 operations.

### **General Data**

Min. Insulation Resistance : 1,000M $\Omega$  500V DC

Dielectric Strength : 1,000V AC, 1 min between open contacts

4,000V AC, 1 min between coil and contacts.

Max. Operate Time : 15ms
Max. Release Time : 8ms.

Operate Temperature : -30 to +70°C

**Shock Resistance** 

 $\begin{array}{ll} Endurance & : 1,000 \text{m/s}^2 \\ Misoperation & : 100 \text{m/s}^2 \\ \end{array}$ 

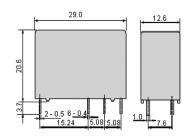
### **Vibration Resistance**

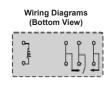
Endurance : 10 to 55Hz, 1.5mm double amplitude.

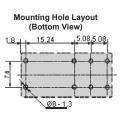
Misoperation : 10 to 55Hz, 1.5mm double amplitude.

Humidity : 35% to 95%RH, +40°C.

## Diagram







Dimensions : Millimetres

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# **Power Relays**

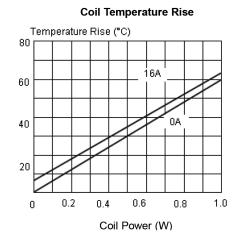


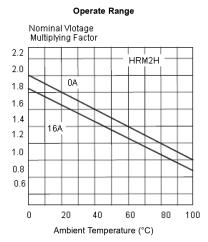
#### 20°C Coil Data Chart

Nominal Voltage V DC	Coil Resistance Ω ±10%	Operate Voltage ≤ V DC	Release Voltage ≥ V DC	Coil Power mW	Part Number
12	267	9	1.2	540	MCHRM2H-S-DC12V-C
24	1067	18	2.4		MCHRM2H-S-DC24V-C

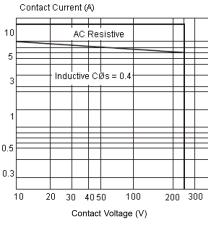
## **Characteristic Chart Data**

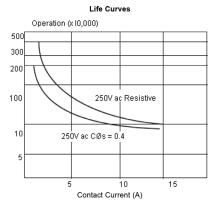
## Timing Time (ms) 20 15 10 Operate 5 Release 0 3.0 Coil Power (W)





## **Maximum Switching Power**





### Part Number Table

Description	Part Number		
Relay, Power, SPDT, 12V DC Coil 0.54W	MCHRM2H-S-DC12V-C		
Relay, Power, SPDT, 24V DC Coil 0.54W	MCHRM2H-S-DC24V-C		

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