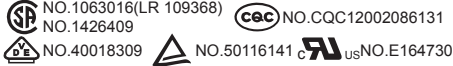


**HRM4**

POWER RELAY

**Features**

- Small size
- Sealed and unsealed versions  
Sealed: 24.4×12.9×24.8(mm)  
Unsealed: 23.5×12.0×24.8(mm)
- 5A contact current
- 2 form A contact configuration
- Creepage distance: 6mm
- Cross bar or rivet contacts

**Safety Approval****Relay Picture****ORDERING INFORMATION****HRM4** [H] - [S] - [DC12V] [SP]

Model	Coil Sensitivity	Enclosure	Coil Voltage	Contact Form
	H - High Sensitivity (250mW) Blank - Standard (540mW)	S - Sealed Plastic Cover Blank - Unsealed Plastic Cover	DC3V, DC5V, DC6V, DC9V DC12V, DC24V, DC48V	Blank - Rivet Contact SP - Cross Bar Contact

Remark: 1. Available only in 2 form A(DPST) configuration

**SPECIFICATION****CONTACT DATA**

Contact Form		2 Form A
Contact Material		AuAg, Ag Alloy
Contact Rating	5A 250VAC/30VDC, TV-5 (Rivet Contact) 3A 125VAC/30VDC (Cross Bar Contact)	
Contact Resistance		Max. 100mΩ (6VDC 1A)
Load	Max. Switching Voltage	250VAC/30VDC
	Max. Switching Current	5A
	Max. Switching Power	1,250VA, 150W
	Min. Switching Load	5VDC, 100mA
Life	Electrical	100,000 operations
	Mechanical	2,000,000 operations

**COIL DATA**

Nominal Coil Power	250mW, 540mW
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**GENERAL DATA**

Insulation Resistance		Min. 1000MΩ 500VDC
Dielectric Strength	Between open contacts	1,000VAC, 1min
	Between coil and contacts	4,000VAC, 1min
Operate Time		Max. 20ms
Release Time		Max. 10ms
Operating Temperature		-30℃ to +70℃
Humidity		35~95%RH, +40℃
Shock Resistance	Endurance	1,000m/s <sup>2</sup>
	Misoperation	100m/s <sup>2</sup>
Vibration Resistance	Endurance	10~55Hz, 1.5mm double amplitude
	Misoperation	10~55Hz, 1.5mm double amplitude
Weight		Approximately 13.0g

Note: Data shown are of initial value

**SAFETY APPROVAL**

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
UL E164730	SP - 2A	0.54W/0.25W	3 - 48VDC	3A 125VAC	—
CSA 1426409	SP - 2A	0.54W/0.25W	3 - 48VDC	3A 125VAC/30VDC	—
TUV 50116141	SP - 2A	0.54W	3 - 48VDC	3A 125VAC/24VDC	Ambient Temperature: 70℃

ISO9001、ISO/TS16949、ISO14001 Approved



## SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
CQC 12002086131	Rivet Contacts - 2A	0.54W	3-48VDC	5A 250VAC	Ambient Temperature: -40°C~85°C
TUV 50116141-0001	Rivet Contacts - 2A	0.54W	3-48VDC	5A 250VAC/24VDC	Ambient Temperature: 85°C
TUV 50116141-0002 (EN60730-1)	Rivet Contacts - 2A	0.54W	3-48VDC	5(1)A 250VAC 5(2.5)A 250VAC	Ambient Temperature: 85°C
VDE 40018309	Rivet Contacts - 2A	0.54W	5,12,24VDC	5A 250VAC/30VDC	Ambient Temperature: 70°C
UL E164730	Rivet Contacts - 2A	0.54W/0.25W	3-48VDC	5A 250VAC/30VDC TV-5 125VAC	—
CSA 1063016(LR 109368)	Rivet Contacts - 2A	0.54W/0.25W	3-48VDC	5A 250VAC/30VDC	—

Specifications subject to change without notice

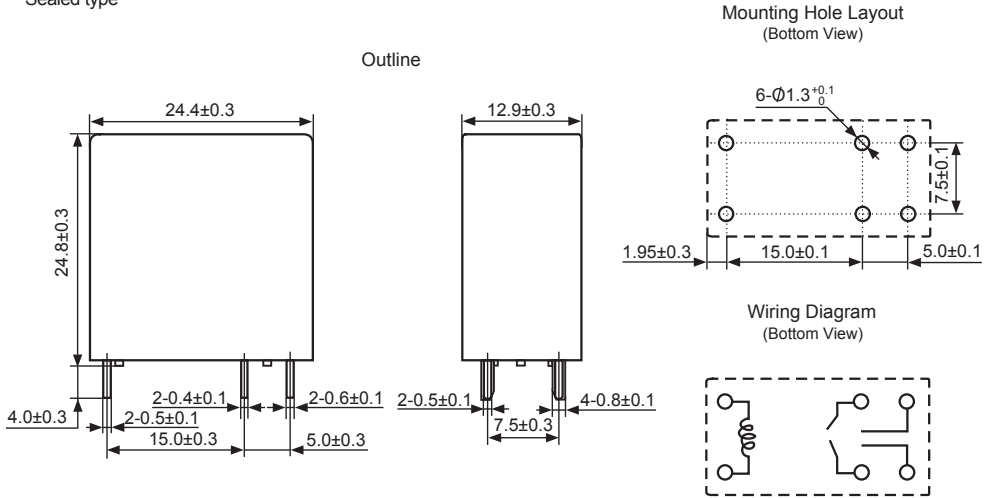
## COIL DATA

Ambient Temperature: 23°C

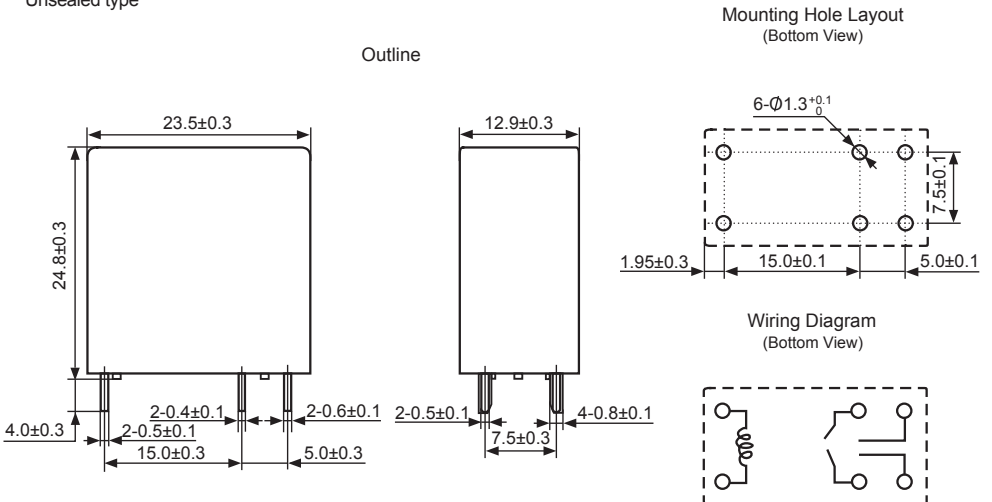
Model	Nominal Voltage VDC	Coil Resistance $\Omega$ ±10%	Operate Voltage $\leq$ VDC	Release Voltage $\geq$ VDC	Coil Power mW
HRM4-(S)-DC3V	3	17	2.25	0.3	540
HRM4-(S)-DC5V	5	47	3.75	0.5	
HRM4-(S)-DC6V	6	67	4.50	0.6	
HRM4-(S)-DC9V	9	150	6.75	0.9	
HRM4-(S)-DC12V	12	267	9.0	1.2	
HRM4-(S)-DC24V	24	1067	18.0	2.4	
HRM4-(S)-DC48V	48	4267	36.0	4.8	
HRM4H-(S)-DC3V	3	36	2.25	0.3	
HRM4H-(S)-DC5V	5	100	3.75	0.5	
HRM4H-(S)-DC6V	6	144	4.50	0.6	
HRM4H-(S)-DC9V	9	324	6.75	0.9	
HRM4H-(S)-DC12V	12	576	9.0	1.2	
HRM4H-(S)-DC24V	24	2304	18.0	2.4	
HRM4H-(S)-DC48V	48	9216	36.0	4.8	

**OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)**

Sealed type

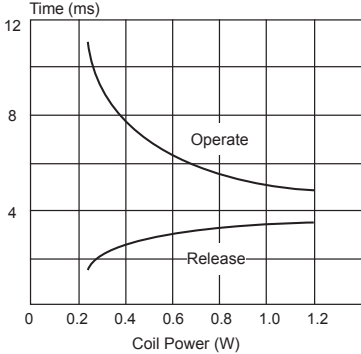


Unsealed type

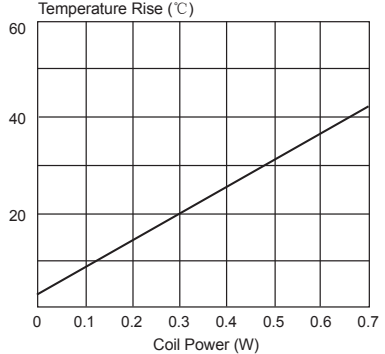


## REFERENCE DATA

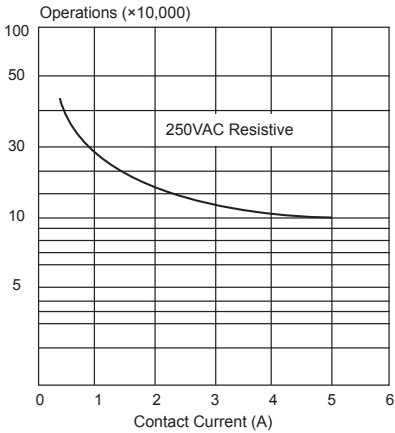
Time Curve



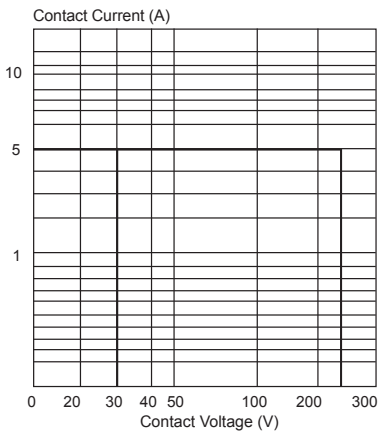
Coil Temperature Rise



Life Curve



Maximum Switching Power



Operating Voltage Range

