

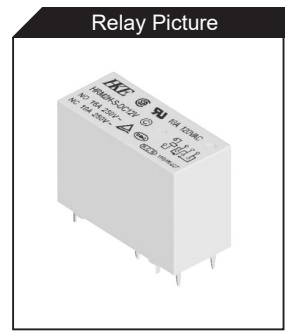


Features

- General purpose power relay
Dimensions: 29.0×12.6×20.8(mm)
- Contact: 1 Form A, 1 Form C
- Dielectric strength of 4000V between coil and contacts
- 16A contact current
- Creepage distance: 8mm

Safety Approval

us NO.E164730	NO.CQC09002035018
NO.50116140	NO.1063015(LR 106040)



ORDERING INFORMATION

HRM2 [H] - [S] - [DC12V] - [A]

Model	Coil Sensitivity	Enclosure	Coil Voltage	Contact Form
	H-High Sensitivity (540mW) Blank-Standard (720mW)	S - Plastic Sealed Type	DC3V, DC5V, DC6V, DC9V DC12V, DC24V, DC48V	A - 1 Form A C - 1 Form C

SPECIFICATION

CONTACT DATA

Contact Form		1 Form A, 1 Form C
Contact Material		Ag Alloy
Contact Rating	Resistive: 16A 250VAC/30VDC TV Rating: TV-8 125VAC Inductive: 8A 250VAC/30VDC (COSΦ=0.4, L/R=7ms)	
Contact Resistance		Max. 100mΩ (6VDC 1A)
Load	Max. Switching Voltage	250VAC/30VDC
	Max. Switching Current	16A
	Max. Switching Power	4,000VA, 480W
	Min. Switching Load	5VDC, 100mA
Life	Electrical	100,000 operations
	Mechanical	10,000,000 operations

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. 15ms
Release Time		Max. 8ms
Operating Temperature		-30~+55°C (720mW)
		-30~+70°C (540mW)
Humidity		35~95%RH, +40°C
Shock Resistance	Endurance	1,000m/s ²
	Misoperation	100m/s ²
Vibration Resistance	Endurance	10~55Hz, 1.5mm double amplitude
	Misoperation	10~55Hz, 1.5mm double amplitude
Weight		Approximately 13.0g

COIL DATA

Nominal Coil Power	540mW, 720mW
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Note: Data shown are of initial value

SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
CSA 1063015 (LR 106040)	A/C	0.72W/0.54W	3 - 48VDC	16A 120VAC	—
TUV 50116140-001	A	0.72W/0.54W	3 - 48VDC	16A 250VAC	Ambient Temperature: 85°C
	C	0.72W/0.54W	3 - 48VDC	NO/NC: 16A/10A 250VAC	Ambient Temperature: 85°C

HRM2

POWER RELAY

SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
UL E164730	A/C	0.72W/0.54W	3 - 48VDC	16A 120VAC	Ambient Temperature: 40°C
CQC09002035018 (GB/T 21711.1-2008)	A	0.72W/0.54W	3 - 48VDC	16A 250VAC	Ambient Temperature: 85°C
	C	0.72W/0.54W	3 - 48VDC	NO/NC: 16A/10A 250VAC	Ambient Temperature: 85°C

Specifications subject to change without notice

COIL DATA

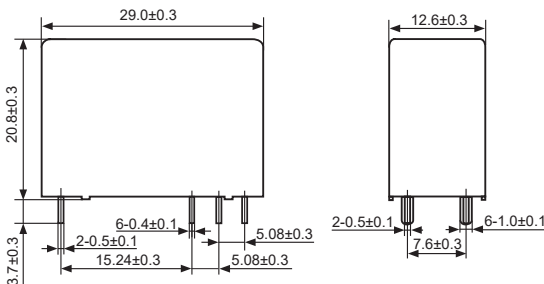
Ambient Temperature: 23°C

Model	Nominal Voltage VDC	Coil Resistance Ω +/- 10%	Operate Voltage \leq VDC	Release Voltage \geq VDC	Coil Power mW
HRM2-S-DC3V	3	12.5	2.25	0.3	720
HRM2-S-DC5V	5	35	3.75	0.5	
HRM2-S-DC6V	6	50	4.50	0.6	
HRM2-S-DC9V	9	112.5	6.75	0.9	
HRM2-S-DC12V	12	200	9.0	1.2	
HRM2-S-DC24V	24	800	18.0	2.4	
HRM2-S-DC48V	48	3200	36.0	4.8	
HRM2H-S-DC3V	3	17	2.25	0.3	540
HRM2H-S-DC5V	5	46	3.75	0.5	
HRM2H-S-DC6V	6	67	4.50	0.6	
HRM2H-S-DC9V	9	150	6.75	0.9	
HRM2H-S-DC12V	12	267	9.0	1.2	
HRM2H-S-DC24V	24	1067	18.0	2.4	
HRM2H-S-DC48V	48	4267	36.0	4.8	

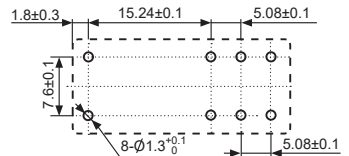
OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

1 Form C

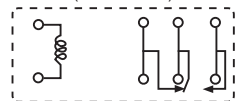
Outline



Mounting Hole Layout
(Bottom View)



Wiring Diagram
(Bottom View)



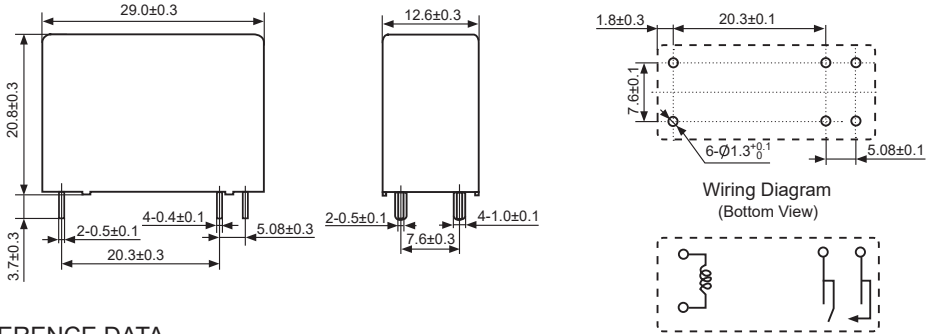
ISO9001, IATF16949, ISO14001 Approved

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

1 Form A

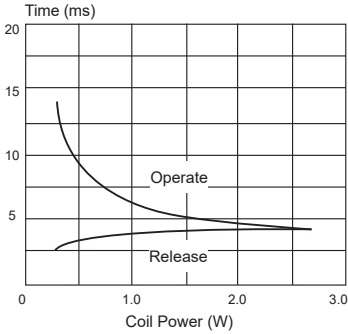
Outline

Mounting Hole Layout
(Bottom View)

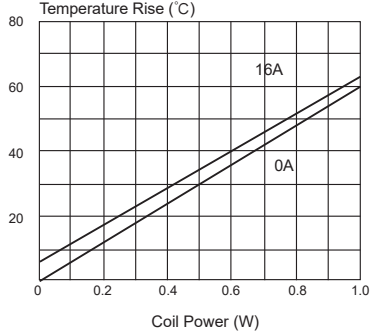


REFERENCE DATA

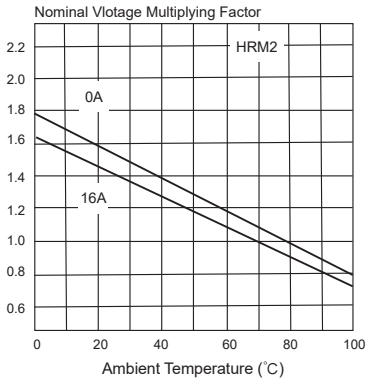
Time Curve



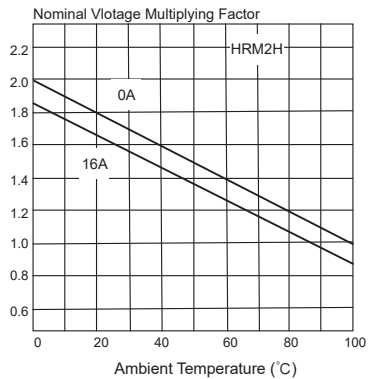
Coil Temperature Rise



Operating Range

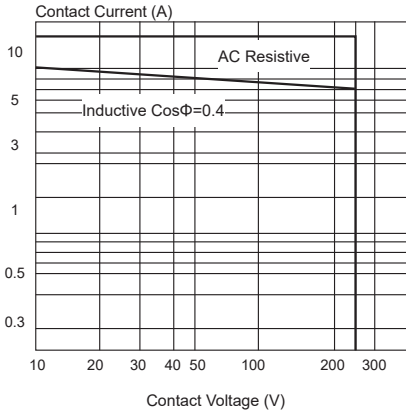


Operating Range



REFERENCE DATA

Maximum Switching Power



Life Curves

