



- (F) NO. 22463
(D) NO. 313782-01
(N) NO. P06206140
(S) NO. 519948
(A) NO. 50125648
(VDE) NO. 40018308
(SP) NO. 1063016 (LR 109368)
(CQC) NO. CQC08001026616

Safety Approval

UL US NO. E164730

VDE NO. 40018308

CQC NO. CQC08001026616

Features

- Available in sealed and unsealed versions
Sealed: 24.6×10.6×25.0(mm)
Unsealed: 24.0×10.0×25.0(mm)
- High sensitivity type with power consumption of 250mW
- 1 form A contact configuration
- Comply with TV-5 standards required for TV and audio power supplies



ORDERING INFORMATION

HRM3 [H] - [S] - [DC12V]			
Model	Coil Sensitivity	Enclosure	Coil Voltage
	H - High Sensitivity (250mW) L - High Sensitivity (150mW) Blank - Standard (540mW)	S - Sealed Plastic Cover Blank - Unsealed Plastic Cover	DC3V, DC5V, DC6V, DC9V DC12V, DC24V, DC48V

Remark: 1. Available in 1 Form A only

SPECIFICATION

CONTACT DATA

Contact Form		1 Form A
Contact Material		Ag Alloy
Contact Rating		10A 250VAC/30VDC, TV-5
Contact Resistance		Max. 100mΩ (6VDC 1A)
Load	Max. Switching Voltage	250VAC/30VDC
	Max. Switching Current	10A
	Max. Switching Power	2,500VA, 300W
	Min. Switching Load	5VDC, 100mA
Life	Electrical	100,000 operations
	Mechanical	2,000,000 operations

COIL DATA

Nominal Coil Power	150mW, 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
Sure Strength		10,000VAC
Operate Time		Max. 15ms
Release Time		Max. 8ms
Operating Temperature		-40~+70℃
Humidity		35~95%RH, +40℃
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 10.0g

Note: Data shown are of initial value

SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remark
UL E164730	A	0.54W/0.25W	3 - 48VDC	10A 250VAC/30VDC	—
				TV-8 125VAC	
	A	0.15W	3 - 48VDC	5A 250VAC/30VDC	—
				TV-5 125VAC	
CQC 08001026616	A	0.54W/0.25W	3 - 48VDC	10A 250VAC	Ambient Temperature: 85℃

ISO9001、ISO/TS16949、ISO14001 Approved

FKE HRM3-249

HRM3**POWER RELAY****SAFETY APPROVAL**

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remark
CSA 1063016 (LR 109368)	A	0.54W/0.25W	3 - 48VDC	10A 250VAC/30VDC	—
VDE 40018308	A	0.54W/0.25W	3 - 48VDC	10A 250VAC/30VDC	Ambient Temperature: 70°C
		0.54W	5, 10, 12VDC	5A 250VAC	
		0.25W	5, 10, 12VDC	8A 250VAC	
TUV 50125648-0001	A	0.54W/0.25W	3 - 48VDC	10A 250VAC	Ambient Temperature: 85°C
TUV 50125648-0002 (EN 60730-1)	A	0.54W/0.25W	3 - 48VDC	10(2)A 250VAC	Ambient Temperature: 85°C
				10(5)A 250VAC	
SEMKO 519948	A	0.54W	3 - 48VDC	3/120A 250VAC	Ambient Temperature: 70°C
		0.25W		3/100A 250VAC	
NEMKO P06206140	A	0.54W	3 - 48VDC	3/120A 250VAC	Ambient Temperature: 70°C
		0.25W		3/100A 250VAC	
FIMKO 22463	A	0.54W	3 - 48VDC	3/120A 250VAC	Ambient Temperature: 70°C
		0.25W		3/100A 250VAC	
DEMKO 313782-01	A	0.54W	3 - 48VDC	3/120A 250VAC	Ambient Temperature: 70°C
		0.25W		3/100A 250VAC	

Specifications subject to change without notice

COIL DATA

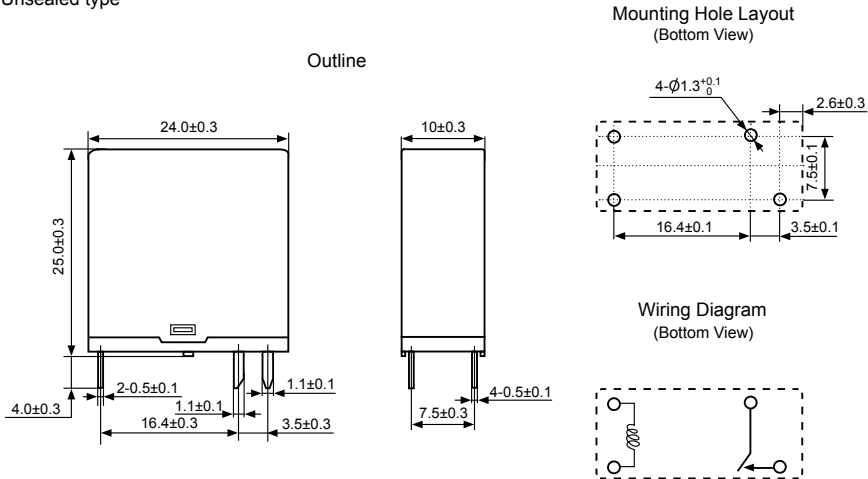
Ambient Temperature: 23°C

Model	Nominal Voltage VDC	Coil Resistance $\Omega \pm 10\%$	Operate Voltage $\leq \text{VDC}$	Release Voltage $\geq \text{VDC}$	Coil Power mW
HRM3-(S)-DC3V	3	17	2.25	0.3	540
HRM3-(S)-DC5V	5	47	3.75	0.5	
HRM3-(S)-DC6V	6	67	4.50	0.6	
HRM3-(S)-DC9V	9	150	6.75	0.9	
HRM3-(S)-DC12V	12	267	9.0	1.2	
HRM3-(S)-DC24V	24	1067	18.0	2.4	
HRM3-(S)-DC48V	48	4267	36.0	4.8	250
HRM3H-(S)-DC3V	3	36	2.25	0.3	
HRM3H-(S)-DC5V	5	100	3.75	0.5	
HRM3H-(S)-DC6V	6	144	4.50	0.6	
HRM3H-(S)-DC9V	9	324	6.75	0.9	
HRM3H-(S)-DC12V	12	576	9.0	1.2	
HRM3H-(S)-DC24V	24	2304	18.0	2.4	150
HRM3H-(S)-DC48V	48	9216	36.0	4.8	
HRM3L-(S)-DC3V	3	60	2.25	0.3	
HRM3L-(S)-DC5V	5	167	3.75	0.5	
HRM3L-(S)-DC6V	6	240	4.5	0.6	
HRM3L-(S)-DC9V	9	540	6.75	0.9	
HRM3L-(S)-DC12V	12	960	9.0	1.2	
HRM3L-(S)-DC24V	24	3840	18.0	2.4	

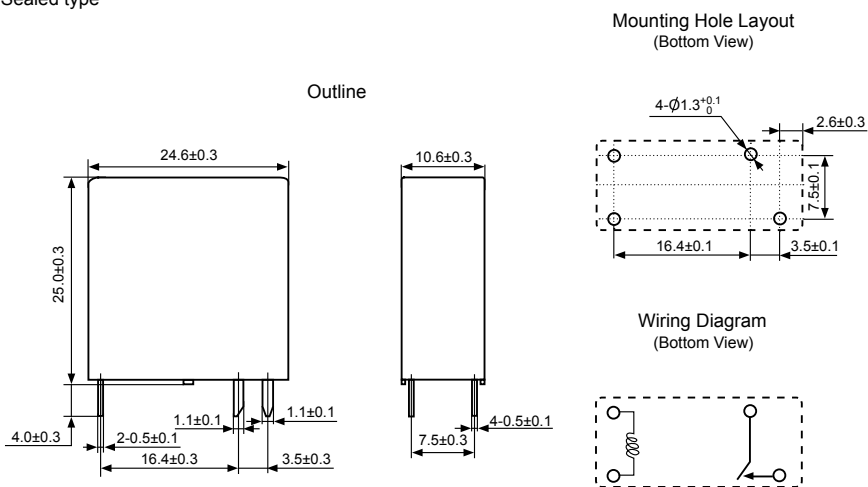
ISO9001、ISO/TS16949、ISO14001 Approved

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

Unsealed type

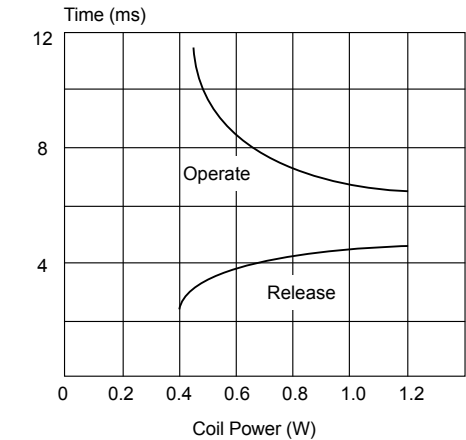


Sealed type

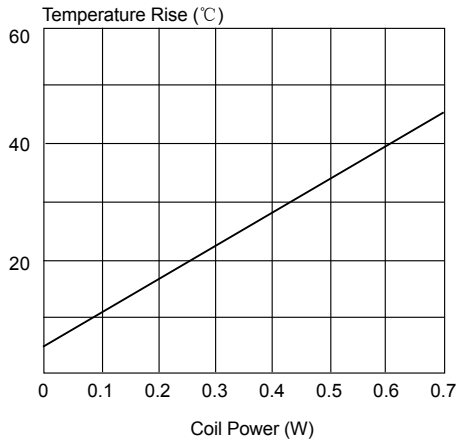


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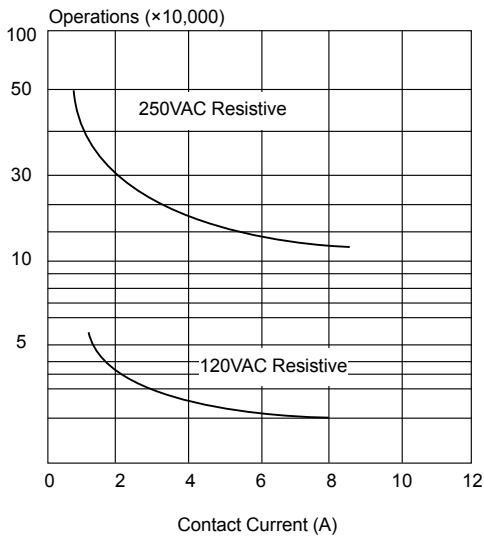
Timing



Coil Temperature Rise



Life Curves



Maximum Switching Power

