

HRM2(H) Relay

1.COIL DATA

| | |
|-------------------------------|------------------|
| 1-1.Nominal Voltage | 3 VDC to 48 VDC |
| 1-2.Coil Resistance | Refer to Table 1 |
| 1-3.Operate Voltage | Refer to Table 1 |
| 1-4.Release Voltage | Refer to Table 1 |
| 1-5.Nominal Power Consumption | 540 mW to 720 mW |

2.CONTACT DATA

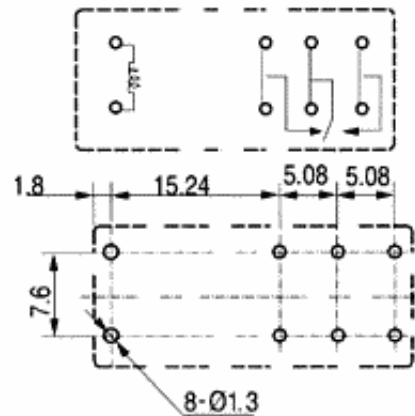
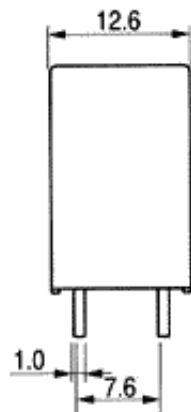
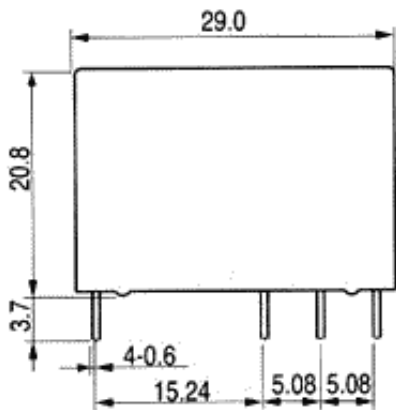
| | |
|------------------------------------|--|
| 2-1.Contact Arrangement | 1 Form C , 1 Form A , 1 Form B |
| 2-2.Contact Material | AgCdo |
| 2-3.Contact Rating | Resistive Load : 16A 240VAC / 30VDC Inductive Load : 8A 240VAD COS μ =0.4 8A 30VDC L/R=7ms |
| 2-4.Max. Switching Voltage | 150 VDC / 250 VAC |
| 2-5.Max. Switching Current | 16A |
| 2-6.Max. Switching Power | 3840 VA , 480W |
| 2-7.Contact Resistance (Initial) | 100 m Ω at 6 VDC 1A |
| | 100,000 operations at nominal load |
| | TV-8 120VAC |
| 2-8.Life Expectancy | 100,000 operations at COS μ =0.4 , L/R=7ms |
| | 10,000,000 operations |



3.GENERAL DATA

| | |
|---------------------------|--|
| 3-1.Insulation Resistance | Min.100M Ω at 500 VDC |
| 3-2.Dielectric Strength | 1,000VAC , 1min between open contacts 5,000VAC , 1min between contacts and coil |
| 3-3.Operate Time | Max. 15ms |
| 3-4.Release Time | Max. 8ms |
| 3-5.Temperature Range | -30 to +55 μ æ (720 mW) -30 to +70 μ æ (540 mW) |
| 3-6.Shock Resistance | 10G |
| 3-7.Vibration Resistance | 10 - 55 Hz , Amplitude 1.5mm |
| 3-8.Weight | 13 gr. |
| 3-9.Safety Standard | UL NO. E164730 TUV NO. R 9859088 |

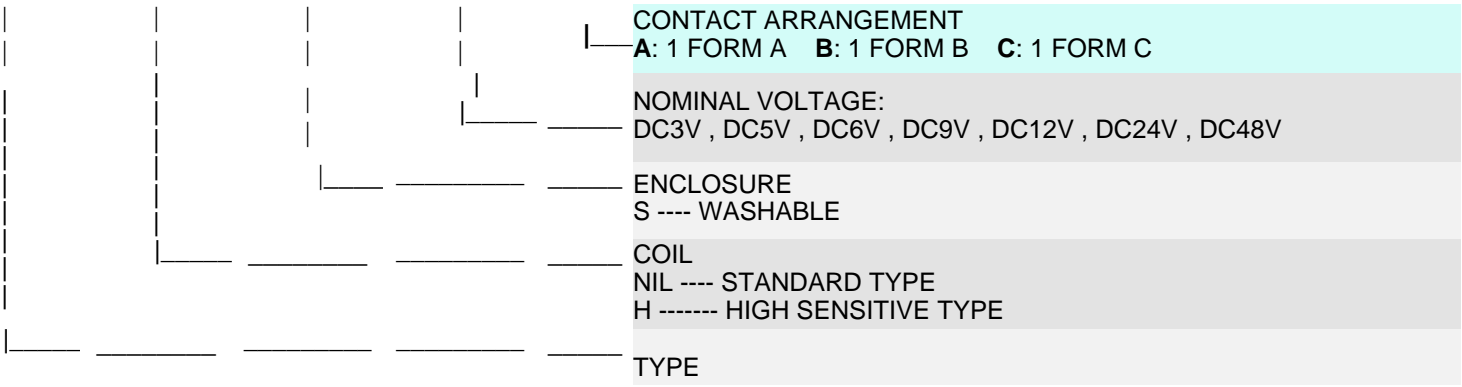
4.DIMENSIONS (in mm)



ii

5.ORDERING CODE

HRM2 **H-** **S** **DC 3V** **A** **ii**



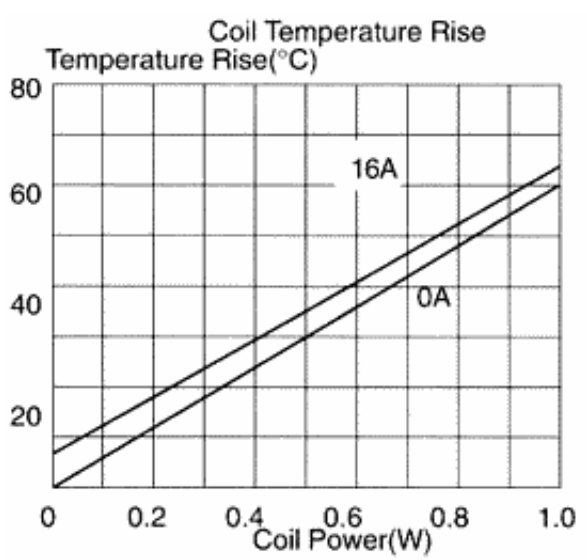
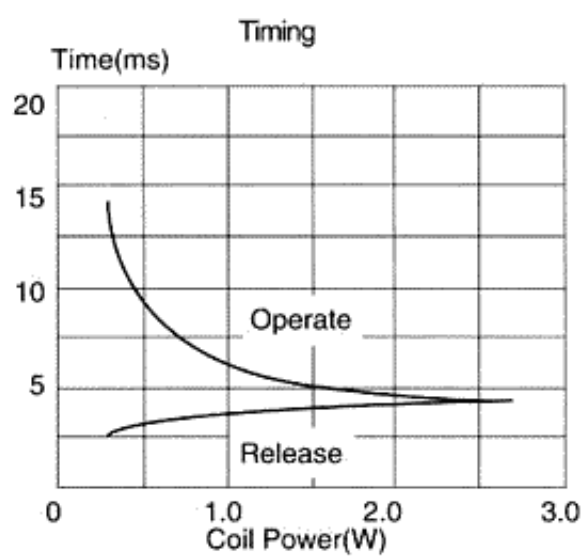
6.COIL DATA CHART

at 20;æ

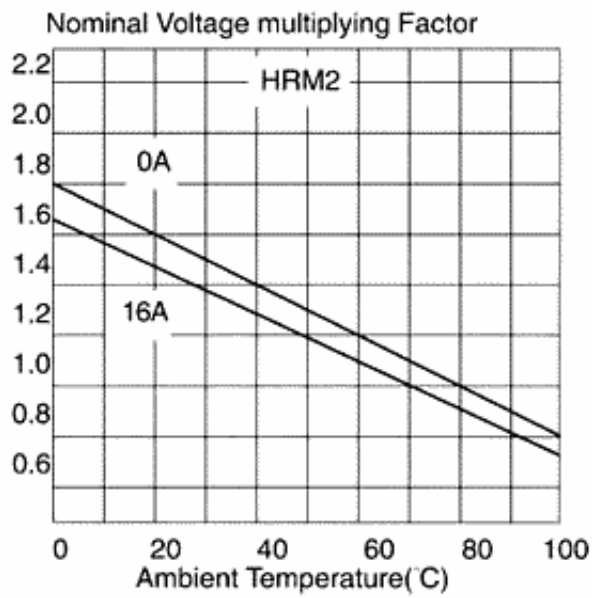
| ORDERING CODE | COIL NOMINAL VDC | COIL RESISTANCE $\pm 10\%$ | OPERATE VOLTAGE VDC | RELEASE VOLTAGE VDC | COIL NOMINAL mW |
|---------------|------------------|----------------------------|---------------------|---------------------|-----------------|
| HRM2-S DC3V | 3 | 12.5 | 2.4 | 0.15 | 720 |
| HRM2-S DC5V | 5 | 36 | 4.0 | 0.25 | |
| HRM2-S DC6V | 6 | 50 | 4.8 | 0.30 | |
| HRM2-S DC9V | 9 | 115 | 7.2 | 0.45 | |
| HRM2-S DC12V | 12 | 200 | 9.6 | 0.6 | |
| HRM2-S DC24V | 24 | 820 | 19.2 | 1.20 | |
| HRM2-S DC48V | 48 | 3300 | 38.4 | 3.40 | |
| HRM2H-S DC3V | 3 | 17 | 2.4 | 0.15 | 540 |
| HRM2H-S DC5V | 5 | 50 | 4.0 | 0.25 | |
| HRM2H-S DC6V | 6 | 68 | 4.8 | 0.30 | |
| HRM2H-S DC9V | 9 | 155 | 7.2 | 0.45 | |
| HRM2H-S DC12V | 12 | 270 | 9.6 | 0.60 | |
| HRM2H-S DC24V | 24 | 1100 | 19.2 | 1.20 | |
| HRM2H-S DC48V | 48 | 4400 | 38.40 | 2.40 | |

Table 1

7.HRM2(H) CHARACTERISTIC DATA

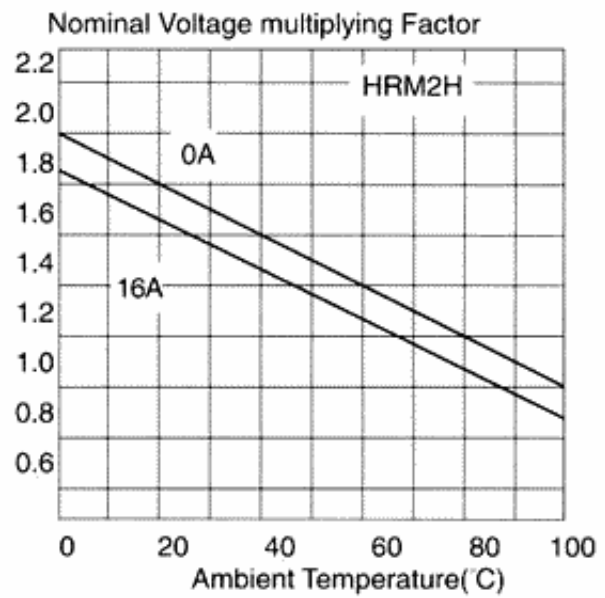


Operating Range



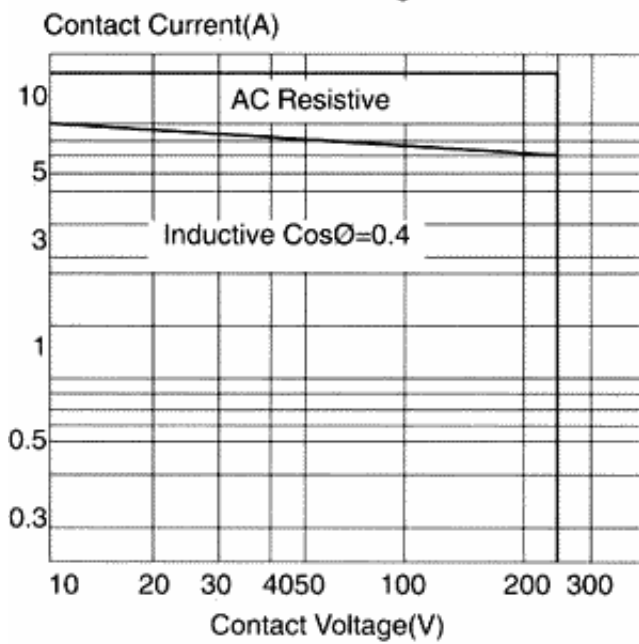
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Operating Range

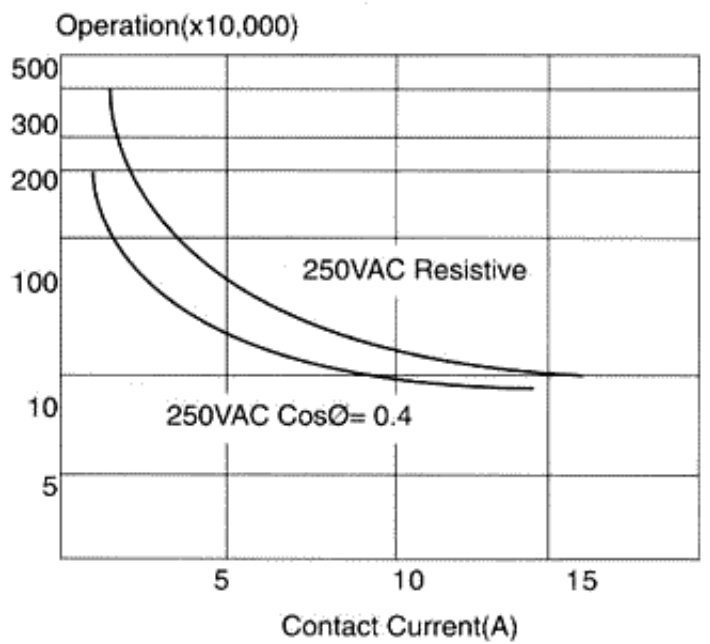


ii

Maximum Switching Power



Life Curve



ii

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