

# Industrial Relay Type RRM Monostable



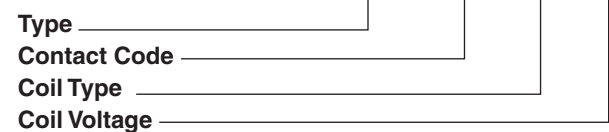
- 8 or 14 -blades socket mounting
- 2 or 4 change over contacts
- 10A maximum switching current (DPDT version)
- 250 VAC/VDC maximum switching voltage
- AC coils 12 ~ 240 VAC
- DC coils 12 ~ 110VDC
- Electrical life of 100,000 cycles
- Mechanical life of 10,000,000 cycles
- DIN sockets with two terminal layout options
- Standard indicating LED, push arm and test flag
- UL, CSA, CE, ROHS approvals

## Product Description

The RRM is an industrial relay that can be used in a wide range of applications. It is available in 2 or 4 change over contacts configurations.

## Ordering Key

**RRM 004 A 24V**



## Approvals



## Type Selection

| Type | Contact Code | Coil Type | Coil Voltage                   |
|------|--------------|-----------|--------------------------------|
| RRM  | 002 - DPDT   | A - AC    | 12V, 24V, 48V, 120V, 240V AC   |
|      | 004 - 4PDT   | D - DC    | 5V, 6V, 12V, 24V, 48V, 110V DC |

## Product Selection

| Part Number | Contact Code                                | Coil voltage | Stock Code |
|-------------|---|--------------|------------|
| RRM002A12V  | DPDT<br>2 change over<br>contacts, 8-blades | 12 VAC       | D          |
| RRM002A24V  |   | 24 VAC       | A          |
| RRM002A48V  |   | 48 VAC       | D          |
| RRM002A120V |   | 120 VAC      | A          |
| RRM002A240V |   | 240 VAC      | A          |
| RRM002D5V   |   | 5 VDC        | A          |
| RRM002D6V   |   | 6 VDC        | D          |
| RRM002D12V  |   | 12 VDC       | A          |
| RRM002D24V  |   | 24 VDC       | A          |
| RRM002D48V  |   | 48VDC        | D          |
| RRM002D110V |   | 110 VDC      | D          |

| Part Number | Contact Code                                    | Coil voltage | Stock Code |
|-------------|---|--------------|------------|
| RRM004A12V  | 4PDT<br>4 change<br>over contacts,<br>14-blades | 12 VAC       | D          |
| RRM004A24V  |   | 24 VAC       | A          |
| RRM004A48V  |   | 48 VAC       | D          |
| RRM004A120V |   | 120 VAC      | A          |
| RRM004A240V |   | 240 VAC      | A          |
| RRM004D5V   |   | 5 VDC        | A          |
| RRM004D6V   |   | 6 VDC        | D          |
| RRM004D12V  |   | 12 VDC       | A          |
| RRM004D24V  |   | 24 VDC       | A          |
| RRM004D48V  |   | 48VDC        | D          |
| RRM004D110V |   | 110 VDC      | D          |

## Contact Characteristics

|                            |  |
|----------------------------|--|
| Arrangement:               | DPDT, 4PDT                                   |
| Contact Rating:            | <b>RRM002:</b> 10A 250VAC/30VDC              |
|                            | <b>RRM004:</b> 5A 250VAC/30VDC               |
| Hp rating at 240VAC        | <b>RRM002:</b> 1/3 Hp, <b>RRM004:</b> 1/6 Hp |
| Maximum Switching Voltage: | 250VAC, 30 VDC                               |
| Minimum Switching Current: | 100mA, 5VDC                                  |

|                         |                                     |
|-------------------------|-------------------------------------|
| Material :              | AgSnO2                              |
| Contact Resistance:     | ≤ 100 mOhms (at 6 VDC 1A)           |
| Reaction Time to Close: | ≤ 20ms                              |
| Reaction Time to Open:  | ≤ 20ms                              |
| Electrical Life:        | 100,000 cycles (1800 per hour)      |
| Mechanical Life         | 10,000,000 cycles (18,000 per hour) |

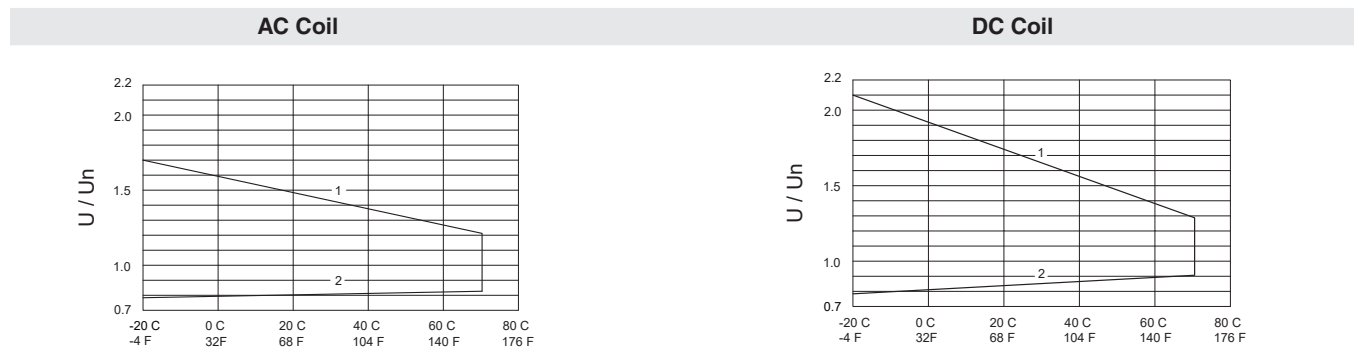
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## Coil Characteristics

| AC Coil   |                 |          |          |                 |            | DC Coil   |                 |          |          |                 |            |
|-----------|-----------------|----------|----------|-----------------|------------|-----------|-----------------|----------|----------|-----------------|------------|
| Coil Code | Nominal Voltage | Pick-up  | Drop-out | Coil Resistance | Coil Power | Coil Code | Nominal Voltage | Pick-up  | Drop-out | Coil Resistance | Coil Power |
|           |                 | at +23°C |          |                 |            |           |                 | at +23°C |          |                 |            |
|           | VAC             | ≥ VAC    | ≤ VAC    | Ω ±10%          | VA         |           | VAC             | ≥ VAC    | ≤ VAC    | Ω ±10%          | VA         |
| 12V       | 12V             | 80%      | 30%      | 46.5            | aprox. 1.2 | 5V        | 5V              | 80%      | 10%      | 28              | aprox. 0.9 |
| 24V       | 24V             |          |          | 192             |            | 6V        | 6V              |          |          | 40              |            |
| 48V       | 48V             |          |          | 783             |            | 12V       | 12V             |          |          | 160             |            |
| 120V      | 110/120V        |          |          | 4000            |            | 24V       | 24V             |          |          | 650             |            |
| 240V      | 220/240V        |          |          | 15000           |            | 48V       | 48V             |          |          | 2560            |            |
|           |                 |          |          |                 | 11000      |           |                 |          |          |                 |            |

Minimum and Maximum Coil Voltage vs Ambient Temperature



- 1- Maximum coil voltage vs. temperature
- 2- Minimum coil voltage vs. temperature

## Insulation

|                                     |                         |
|-------------------------------------|-------------------------|
| Between Open Contacts (1mA leakage) | ≥ 1000 VAC for 1 minute |
|                                     | ≥ 1200 VAC for 1 second |
| Between Contact and Coil and        | ≥ 2500 VAC for 1 minute |
|                                     | ≥ 2750 VAC for 1 second |
| Contact to Contact (1mA leakage)    | ≥ 1500 VAC for 1 minute |
|                                     | ≥ 1700 VAC for 1 second |

## Environmental Specifications

|                         |   |
|-------------------------|---|
| Operational Temperature | -40°C ~ +70°C                                   |
| Operational Humidity    | 35% ~ 85%                                       |
| Storage Temperature     | -40°C ~ +70°C                                   |
| Storage Humidity        | 20% ~ 85%                                       |
| Storage Environment     | avoid corrosive gas environments and direct sun |

## Dimensions

