

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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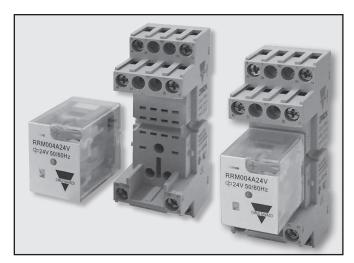






### **Industrial Relay Type RRM Monostable**





- 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**

relay that can be used in 4 change over contacts cona wide range of applica- figurations.

The RRM is an industrial tions. It is available in 2 or

#### **RRM 004 A 24V Ordering Key**

Туре	
Contact Code -	
Coil Type	
Coil Voltage —	

#### **Approvals**

# **74 ®** S C € RoHS

# **Type Selection**

Туре	Contact Code	Coil Type	Coil Voltage
RRM	<b>002</b> - DPDT	A - AC	12V, 24V, 48V, 120V, 240V AC
KKIVI	<b>004</b> - 4PDT	D - DC	5V, 6V, 12V, 24V, 48V, 110V DC

#### **Product Selection**

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

Part Number	Contact Code	Coil voltage	Stock Code
RRM004A12V		12 VAC	D
RRM004A24V		24 VAC	А
RRM004A48V		48 VAC	D
RRM004A120V		120 VAC	А
RRM004A240V	4PDT 4 change over contacts,	240 VAC	А
RRM004D5V		5 VDC	А
RRM004D6V	14-blades	6 VDC	D
RRM004D12V	11 514400	12 VDC	А
RRM004D24V		24 VDC	А
RRM004D48V		48VDC	D
RRM004D110V		110 VDC	D

#### **Contact Characteristics**

Arrangement:	DPDT, 4PDT
Ocarlos de Botinos	RRM002: 10A 250VAC/30VDC
Contact Rating:	RRM004: 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)

# Industrial Relay Type RRM Monostable



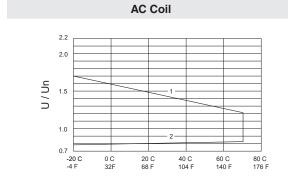
#### **Coil Characteristics**

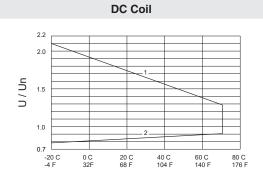
AC Coil										
	Nominal	Pick-up	Drop-out	Coil	Coil					
Coil Code	Voltage	at +23°C		Resistance	Power					
	VAC	≥ VAC	≤ VAC	W ±10%	VA					
12V	12V	4V 80% 30% /120V		46.5						
24V	24V								192	
48V	48V		30%	783	aprox.					
120V	110/120V			4000	1.2					
240V	220/240V			15000						

	Nominal	Pick-up	Drop-out	Coil	Coil	
Coil Code	Voltage	at +	23°C	Resistance	Power	
	VAC	≥ VAC	≤ VAC	W ±10%	VA	
5V	5V	80%		28		
6V	6V		009/ 109/		40	
12V	12V			10%	160	aprox.
24V	24V		10%	650	0.9	
48V	48V			2560		
110V	110V			11000		

DC Coil

Minimum and Maximum Coil Voltage vs Ambient Temperature





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

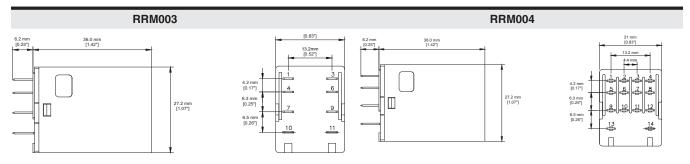
#### Insulation

Datuman Onen Contacto (4 m A Inchess)	≥ 1000 VAC for 1 minute
Between Open Contacts (1mA leakage)	≥ 1200 VAC for 1 second
Between Contact and Coil and	≥ 2500 VAC for 1 minute
	$\geq$ 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**

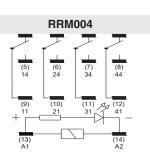


# Industrial Relay Type RRM Monostable



#### **Diagrams**

# (4) 42 42 (5) (8) (44) 44 (14) (14)



#### **Accessories**

Part Number	Part Number Description	
ZRM2N	DIN Socket for RRM002 relay without hold down spring	А
ZRM4N	DIN Socket for RRM004 relay without holding spring	А
ZRMB35	Plastic hold down clip for ZRM socket	А
ZRMK35	Metal hold down spring for ZRM socket	А
ZRMRC24	Auxiliary Module for ZRM Sockets RC 6-24 VAC	А
<b>ZRMRC110240</b> Auxiliary Module for ZRM Sockets RC 110-2		А
<b>ZRMMOV240</b> Auxiliary Module for ZRM Sockets MOV 240		А
ZRMMOV24	Auxiliary Module for ZRM Sockets MOV 24 VAC/VDC	А
<b>ZRMMOV120</b> Auxiliary Module for ZRM Sockets MOV 120 VAC/V		А
ZRMFWD	Auxiliary Module for ZRM Sockets Diode 6-250VDC	А

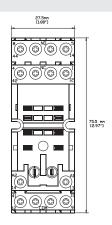
# **Socket Specifications**

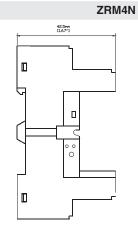
	Arrangement:	ZRM2N: 8-blades, ZRM4N: 14-blades
	Insertion and extraction force	<b>ZRM2N:</b> 15-80 N
		<b>ZRM4N:</b> 25-100 N
	Max screw torque	0.8Nm (7.1 lbinch)
	Dielectric strength	> 2000V

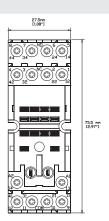
ZRM2N

DIN-rail standard	35 mm
Load capacity	<b>ZRM2N:</b> 12A, 300V
	<b>ZRM4N:</b> 10A, 300V
Operational temp. range	-40°C ~ +85°C
Wire size range	20-14 AWG / 0.5-2.5 mm2

# 42.5m (1677)







# **Agency Approvals**

