

INDUSTRIAL RELAYS

The RM series has a switching current of 16A for 1 pole configurations and 10A for 2 pole configurations. This relay also offers lamp options with push button or diode options.

UL & CUL File #E223388

FEATURES

- 1 Pole and 2 Pole types are available with switching current of 16A (1Pole) and 10A (2 Pole).
- PCB terminal and Socket terminal are selectable, and for direct panel mount, flange case type is available.
- Nominal power DC 900mW & AC 1.2VA.
- Operating power DC 510mW.
- Either with or without lamp is optional for AC& DC coil.
- Low coil power consumption with high response time.

ORDERING INFORMATION

RM **1C** - **12** **D** **P** **M** **L** **F** **P**
 (1) (2) (3) (4) (5) (6) (7) (8) (9)

(1) Basic Designation

RM = RM Series

(2) Contact Arrangement

1A = 1 Form A (SPST-NO)
 1B = 1 Form B (SPST-NC)
 1C = 1 Form C (SPDT)
 2C = 2 Form C (DPDT)

(3) Coil Voltage

DC = 5~48V
 AC = 6~277V

(4) Coil Type

D = DC
 A = AC

(5) Terminal Type

Nil = Socket
 P = P.C.B.

(6) Cover Type

Nil = Standard
 M = Flange Top

(7) Option

Nil = Standard
 L = With Lamp and Diode (DC Coil type only)
 N = With Lamp
 B = With Push Button
 T = With Lamp and Push Button
 K = With Lamp and Diode and Push Button

(8) Insulation

Nil = Class B
 F = Class F

(9) RoHS Compliance

P = RoHS
 Nil = Standard

COIL RATINGS (AT 20°C)

Coil Type	Coil Nominal Voltage (V)	Coil Resistance ($\Omega \pm 10\%$)	Pick-up Voltage (V) $\leq$	Drop-Out Voltage (V) $\geq$	Nominal Current (mA)
DC Standard	6	40	4.5	0.6	150
	12	160	9	1.2	75
	24	650	18	2.4	37
	48	2600	36	4.8	19
	100	11000	75	10	9
AC	12	46	9	3.6	-
	24	180	18	7.2	-
	110	3750	82.5	33	-
	120	4430	90	36	-
	220	12950	165	66	-
	240	18790	180	72	-
	270	24150	202.5	81	-

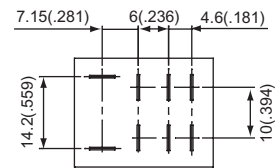
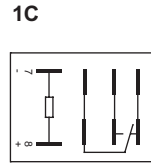
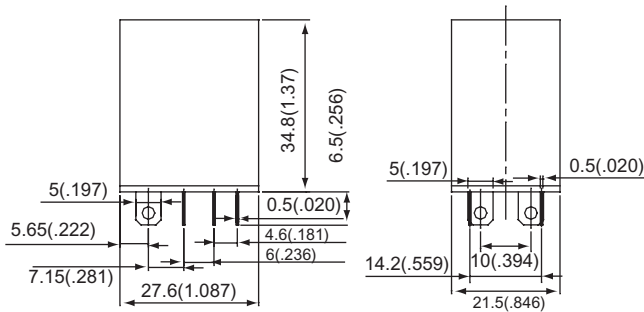
* Max continuous Voltage at 20°C: 130% of Coil Nominal Voltage.

DIMENSIONS

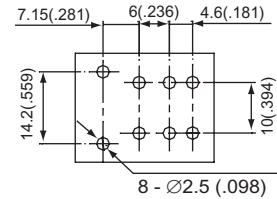
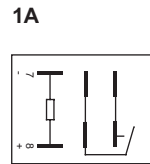
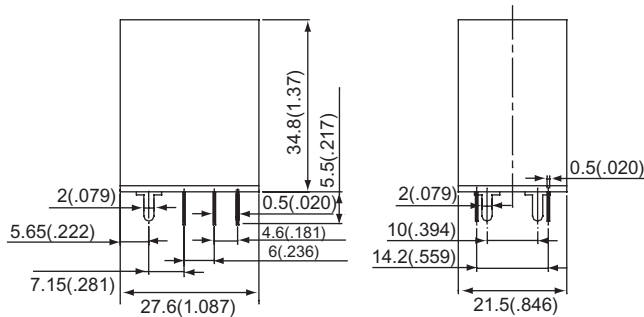
SCHEMATICS
(bottom view)

PCB LAYOUT
(bottom view)

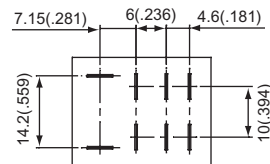
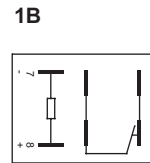
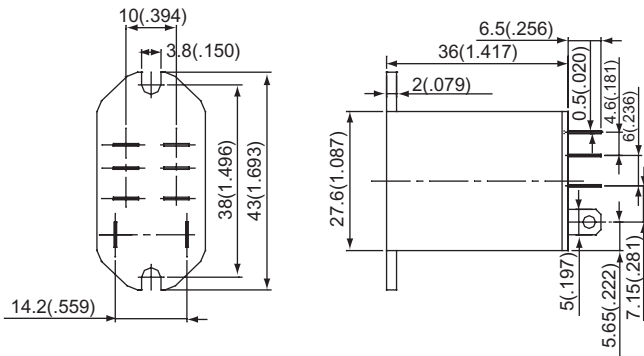
General Type



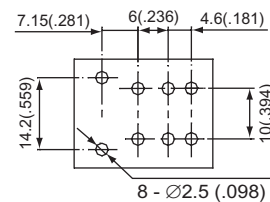
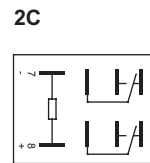
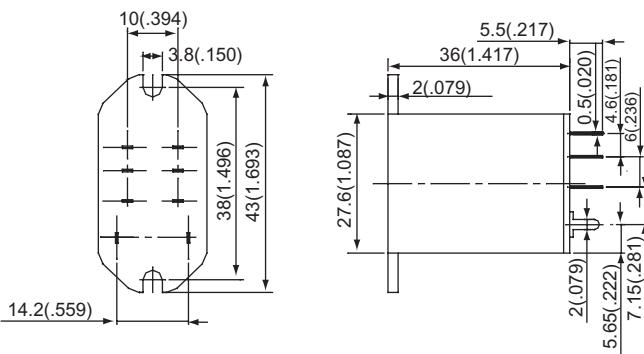
PCB



Outline Connect



Outline Connect PCB Type



Unit: mm(inch)

Tolerance: $\pm 0.2(.008)$

Note: The polarity of coil is only applied for DL, DN, DPL, DPN type.

CONTACT RATINGS

Contact Arrangement	1A (SPST-NO)	1B (SPST-NC)	1C (SPDT)	2C (DPDT)
Max. Switching Power	5000VA 480W	4000VA 480W	2500VA 300W	
Max. Switching Voltage	250VAC 30VDC			
Max. Switching Current	20A	16A	10A	
Contact Resistance	≤100mΩ			
Rating Load	20A / 250VAC 16A / 30VDC	16A / 250VAC 16A / 30VDC	10A / 250VAC 10A / 30VDC	
Contact Material	silver alloy			

CHARACTERISTICS

Electrical Life	1 x 10 ⁵ min.
Mechanical Life	1 x 10 ⁷ min.
Initial Insulation Resistance	Min. 100MΩ 500VDC
Contact Resistance (Initial)	≤100mΩ
Operate Time	≤20ms max.
Release Time	≤10ms max.
Initial Breakdown Voltage	50/60Hz 500VAC 1 min. (between open contacts) 50/60Hz 1500VAC 1 min. (between contact sets) 50/60Hz 1500VAC 1 min. (between all conductors)
Vibration Resistance	Malfunction: 10 to 55Hz at double Amplitude of 1.5mm Destructive: 10 to 55Hz at double Amplitude of 1.5mm
Shock Resistance	Malfunction: Min. 10G (11ms) Destructive: Min. 100G (6ms)
Ambient Temperature	-25°C ~ +55°C
Relative Humidity	85% at 40°C
Unit Weight	Approx. 35g

REFERENCE DATA

