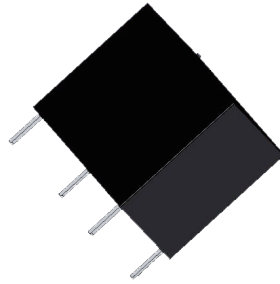




File No.:E75887



FEATURES

- 10A switching capability
- 1 Form A and 1 Form C configurations
- Subminiature, standard PCB layout
- Sealed Type, Dust Cover Type and Flux Free Type is available
- Outline Dimensions:(18.4×10.2×15.3)mm

CONTACT RATINGS

Contact Arrangement	1A	1C				
Contact Resistance	≤100mΩ (1A 24VDC)					
Contact Material	Silver Alloy					
Contact Rating(Resistive)	Standard type		Sensitive type		Standard type	
	High capacity		Standard		High capacity	
	-H Type 10A/250VAC 10A/30VDC	5A/250VAC 5A/30VDC 10A/277VAC	3A/250VAC 3A/30VDC	-T type NO:8A/250VAC 8A/30VDC NC:5A/250VAC 5A/30VDC	10A/277VAC 3A/30VDC	
Max. Switching Voltage	277VAC/30VDC					
Max. Switching Current	10A					
Max. Switching Power	2770VA/300W					
Mechanical Life	1×10 ⁷ operations					
Electrical Life	See more details at "safety approval ratings"					

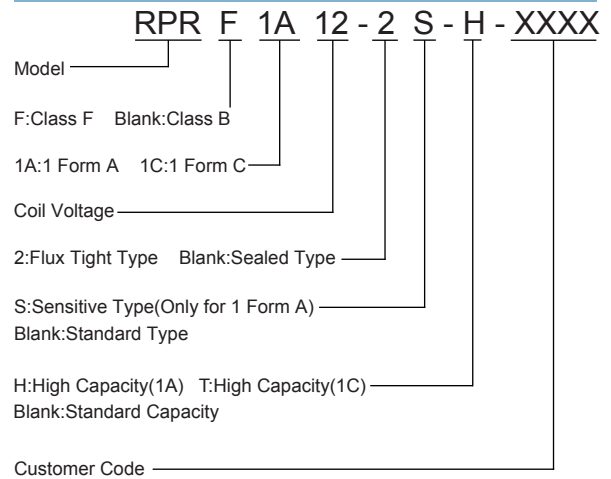
CHARACTERISTICS

Insulation Resistance		1000MΩ (at 500VDC)
Dielectric Strength	Between coil & contacts	2500VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. volt.)		≤8ms
Release time (at nomi. volt.)		≤5ms
Humidity		35% ~ 95% RH
Operation temperature		-40°C~+85°C
Class B/F		Insulation System Class B/F
Shock Resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance		10Hz ~ 55Hz 1.5mm DA
Unit weight		Approx. 6g
Construction		Sealed Type, Flux Tight Type

Notes:1) The data shown above are initial values.

2) Please find coil temperature curve in the characteristic curves.

ORDERING INFORMATION



Notes:

1. PC board assembled with dust cover type and flux tight type relays can not be washed and/or coated.
2. Dust cover type and flux tight type relays can not be used in the environment with dust, or H₂S, SO₂, NO₂ or similar gaseous environment etc.

COIL DATA

at 25°C

Standard Type

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance Ω±10%
3	2.25	0.15	3.9	20
5	3.75	0.25	6.5	55
6	4.50	0.30	7.8	80
9	6.75	0.45	11.7	180
12	9.00	0.60	15.6	320
18	13.5	0.90	23.4	720
24	18.0	1.20	31.2	1280
48	36.0	2.40	62.4	5120

Note: **Max Allowable Voltage*: The relay coil can endure max allowable voltage for a short period time only.

This datasheet is for customers' reference. All the specifications are subject to change without notice.



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RELAYS

COIL DATA at 25°C

Sensitive Type(Only for 1 Form A)

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance $\Omega \pm 10\%$
3	2.25	0.15	4.5	45
5	3.75	0.25	7.5	125
6	4.50	0.30	9.0	180
9	6.75	0.45	13.5	400
12	9.00	0.60	18.0	720
18	13.5	0.90	27.0	1600
24	18.0	1.20	36.0	2800

Note: **Max Allowable Voltage": The relay coil can endure max allowable voltage for a short period time only.

COIL

Coil Power	Standard Type: 450mW
	Sensitive Type: 200mW

SAFETY APPROVAL RATINGS

UL&CUL	1A	Sensitive N.O.:3A 250VAC, 40°C, 6×10 ³ OPS Sensitive N.O.:3A 30VDC, 40°C, 6×10 ³ OPS High Capacity N.O.:10A 250VAC, 40°C, 6×10 ³ OPS High Capacity N.O.:10A 30VDC, 40°C, 6×10 ³ OPS Standard Capacity N.O.:5A 250VAC, 40°C, 6×10 ³ OPS Standard Capacity N.O.:5A 30VDC, 40°C, 6×10 ³ OPS Standard Capacity N.O.:10A 125VAC, 40°C, 6×10 ³ OPS Standard Capacity N.O.:10A 277VAC, 85°C, 2×10 ⁴ OPS(UL PENDING)
	1C	High Capacity N.O.:8A 250VAC, 40°C, 6×10 ³ OPS High Capacity N.O.:8A 30VDC, 40°C, 6×10 ³ OPS High Capacity N.C.:5A 250VAC, 40°C, 6×10 ³ OPS High Capacity N.C.:5A 30VDC, 40°C, 6×10 ³ OPS Standard Capacity N.O.:10A 277VAC, 85°C, 2×10 ⁴ OPS(UL PENDING) Standard Capacity N.O.:3A 30VDC, 40°C, 6×10 ³ OPS Standard Capacity N.O.:3A 250VAC, 40°C, 6×10 ³ OPS

NOTES:

1. All values without specified temperature are at 25°C.
2. The above lists the typical loads only. Other loads may be available upon request.

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OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

Outline Dimensions

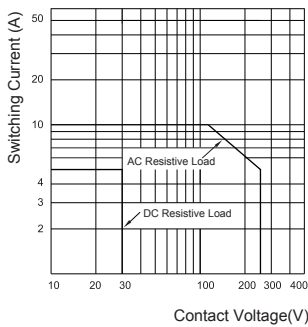
Wiring Diagram (Bottom view)

PCB Layout (Bottom view)

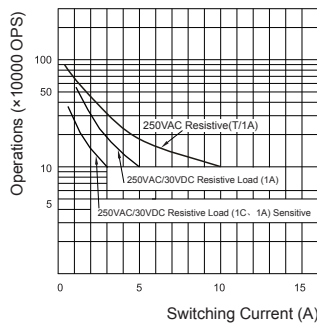
		<p>1A</p>	<p>1A</p>						
<p>1C</p>		<p>1C</p>							
<p>Unless otherwise specified tolerances are:</p> <table border="1"> <tr> <td>≤1mm</td> <td>> 1mm and ≤5mm</td> <td>> 5mm</td> </tr> <tr> <td>±0.2mm</td> <td>±0.3mm</td> <td>±0.4mm</td> </tr> </table>			≤1mm	> 1mm and ≤5mm	> 5mm	±0.2mm	±0.3mm	±0.4mm	<p>* The tolerance without indicating for PCB layout is always ±0.1mm.</p>
≤1mm	> 1mm and ≤5mm	> 5mm							
±0.2mm	±0.3mm	±0.4mm							

CHARACTERISTIC CURVES

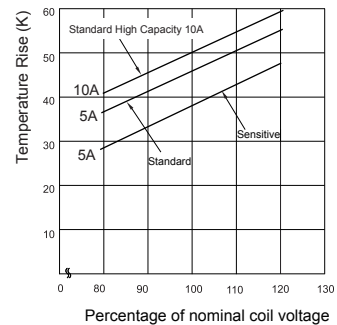
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



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RELAYS

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PACKAGING SPECIFICATION

PAPER BOX	INNER CARTON	OUTER CARTON	OUTER CARTON SIZE
100PCS	1600PCS	3200PCS	L475mm*W275mm*H290mm

APPLICATION GUIDELINES

Automatic Soldering

- * Flow solder is the optimum method for soldering.
- * Adjust the level of solder so that it does not overflow onto the top of the PC board.
- * Unless otherwise specified, solder under the following conditions depending on the type of relay.

Preheat time 20°C-100°C	Rising slope 20°C-120°C	Decreasing slope Peak-150°C	Welding temperature 255°C-265°C
90±5 seconds	<3°C/s	<4°C/s	3~5s

Hand Soldering

- * Keep the tip of the soldering iron clean.

Solder Iron	30W or 60W
Iron Tip Temperature	Approx. 350°C 662°F
Solder Time	Within approx. 3 seconds

- * Immediate air cooling is recommended to prevent deterioration of the relay and surrounding parts due to soldering heat.
- * Although the sealed type relay can be cleaned, avoid immersing the relay into cold liquid (such as washing solvent) immediately after soldering. Doing so may deteriorate the sealing performance.

Discard the dropped product

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