

SPR2 SERIES

POWER RELAY



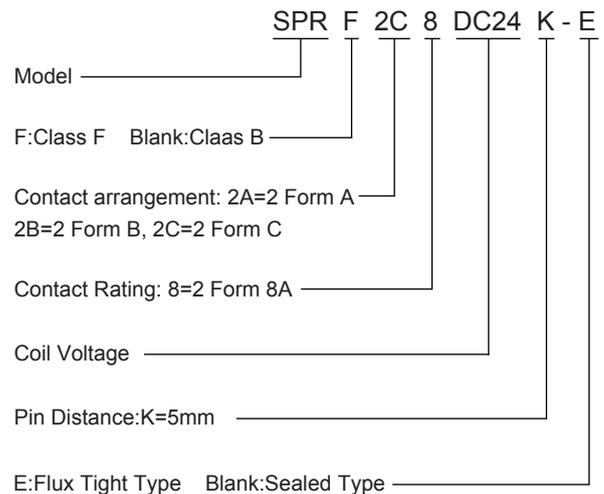
FEATURES

- Small size for high density mounting
- Up to 5000VAC Dielectric strength

CONTACT RATINGS

Contact Arrangement	2A, 2B, 2C
Contact Resistance	≤100mΩ (1A 24VDC)
Contact Material	AgSnO
Contact Rating(Resistive)	8A 250VAC 8A 24VDC
Max. Switching Voltage	440VAC/300VDC
Max. Switching Current	8A
Max. Switching Power	2000VA
Mechanical Life	1×10 ⁷ operations
Electrical Life	See more details at "safety approval ratings"

ORDERING INFORMATION



CHARACTERISTICS

Insulation Resistance	1000MΩ (at 500VDC)	
Dielectric Strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
	Between contacts sets	2500VAC 1min
Operate time (at nomi. volt.)	≤10ms	
Release time (at nomi. volt.)	≤5ms	
Humidity	35% to 85% RH	
Operation temperature	-40°C ~ +85°C	
UL Class B/F	Insulation System Class B/F	
Shock Resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10Hz to 150Hz 10g/5g	
Unit weight	Approx. 13.5g	
Construction	Flux Tight Type, Sealed Type	

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.

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

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

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



RELAYS

* SINCE 1976 *

TEL:(516) 328-9292 FAX:(516)326-9125 www.hascorelays.com email:info@hascorelays.com

COIL DATA at 25°C

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance $\Omega \pm 10\%$
5	3.5	0.5	6.5	62
6	4.2	0.6	7.8	90
9	6.3	0.9	11.7	203
12	8.4	1.2	15.6	360
24	16.8	2.4	31.2	1440
48	33.6	4.8	62.4	5760
60	42.0	6.0	78.0	7500
110	77.0	11.0	143.0	25200

Note:

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

COIL

Coil Power	DC:400mW (60V、 110V:480mW)
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SAFETY APPROVAL RATINGS

UL&CUL	N.O./N.C.:8A 250VAC, 6×10 ³ OPS N.O./N.C.:8A 24VDC, 6×10 ³ OPS
TüV	N.O.:8A 277VAC/240VAC, 85°C, 6×10 ⁴ OPS N.C.:8A 277VAC/240VAC, 85°C, 1×10 ⁵ OPS N.O.:8A 24VDC, 85°C, 1×10 ⁵ OPS N.O./N.C.:8A 277VAC/240VAC, 85°C, 8×10 ⁴ OPS N.O./N.C.:8A 24VDC, 85°C, 5×10 ⁴ 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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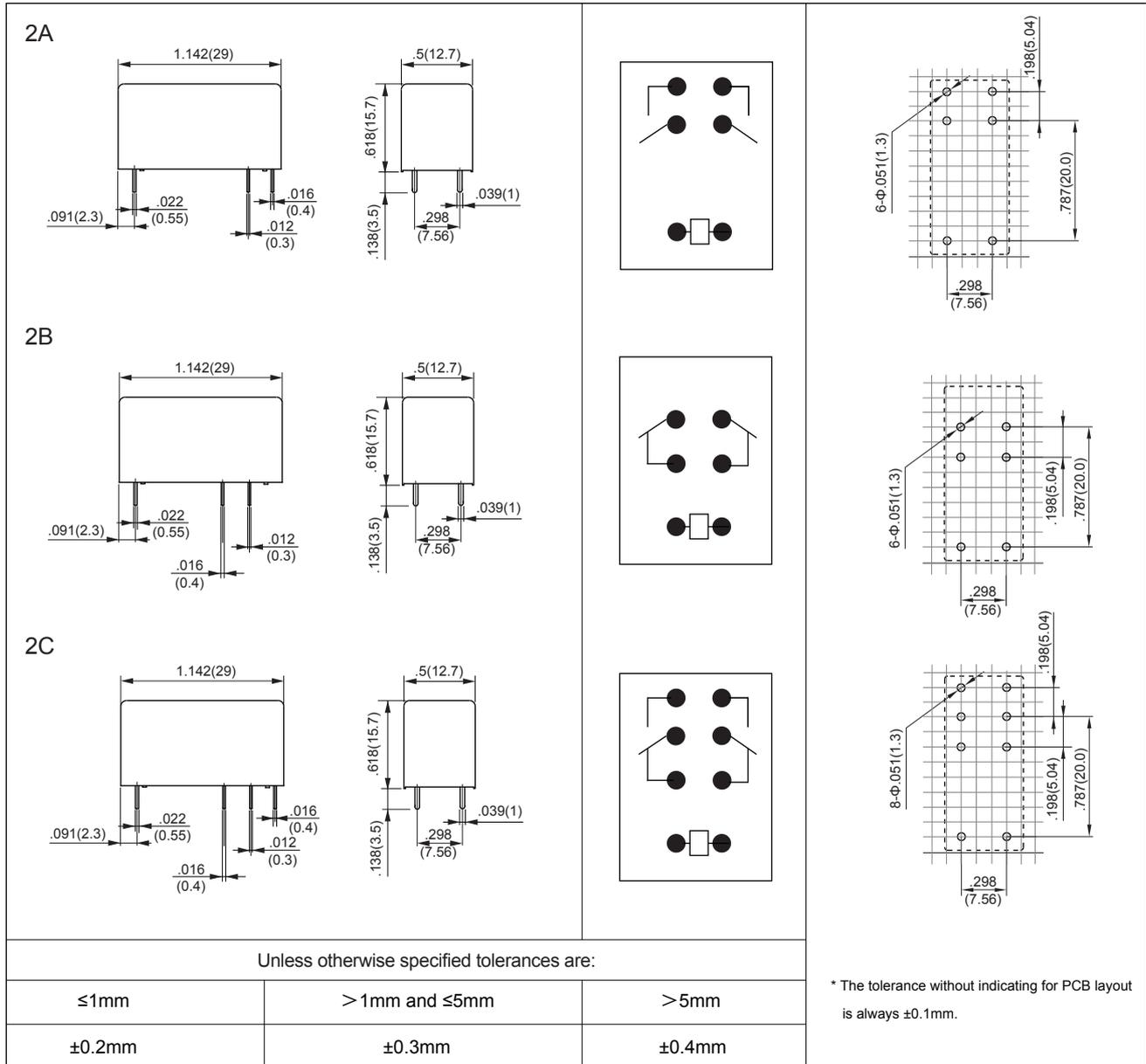
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch (mm)

Outline Dimensions

Wiring Diagram
(Bottom view)

PCB Layout
(Bottom view)



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PACKAGING SPECIFICATION

BLISTER BOX	OUTER CARTON	OUTER CARTON SIZE
50PCS	1000PCS	L375mm*W220mm*H245mm

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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