

COIL DATA

at 25°C

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance $\Omega \pm 10\%$
6	4.50	0.60	6.60	100
9	6.75	0.90	9.90	225
12	9.00	1.20	13.20	400
18	13.50	1.80	19.80	900
21	15.75	2.10	23.10	1225
24	18.00	2.40	26.40	1600
36	27.00	3.60	39.60	3600
48	36.00	4.80	52.80	6400
110	82.50	11.00	121.00	28810

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

COIL

Coil Power	360mW(110V: Approx. 420mW)
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SAFETY APPROVAL RATINGS

UL&CUL	N.O./N.C.:6A 277VAC/250VAC/240VAC/125VAC, 85°C, 1×10 ⁵ OPS N.O./N.C.:6A 30VDC, 85°C, 1×10 ⁵ OPS N.O./N.C.:2A 240VAC(AC-15), 55°C, 1.5×10 ⁴ OPS N.O./N.C.:1A 24VDC(DC-13), 40°C, 5×10 ⁴ OPS
TüV	N.O./N.C.:6A 277VAC/250VAC/125VAC, 85°C, 1×10 ⁵ OPS N.O./N.C.:6A 30VDC, 85°C, 1×10 ⁵ OPS N.O./N.C.:2A/1.5A 240VAC(AC-15), 40°C, 1×10 ⁴ OPS N.O./N.C.:1A 24VDC(DC-13), 40°C, 5×10 ⁴ OPS
CQC	N.O./N.C.:6A 277VAC/250VAC/125VAC, 85°C, 1×10 ⁵ OPS N.O./N.C.:6A 30VDC, 85°C, 1×10 ⁵ 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.

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



RELAYS

* SINCE 1976 *

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HAA02 SERIES

SAFETY RELAY

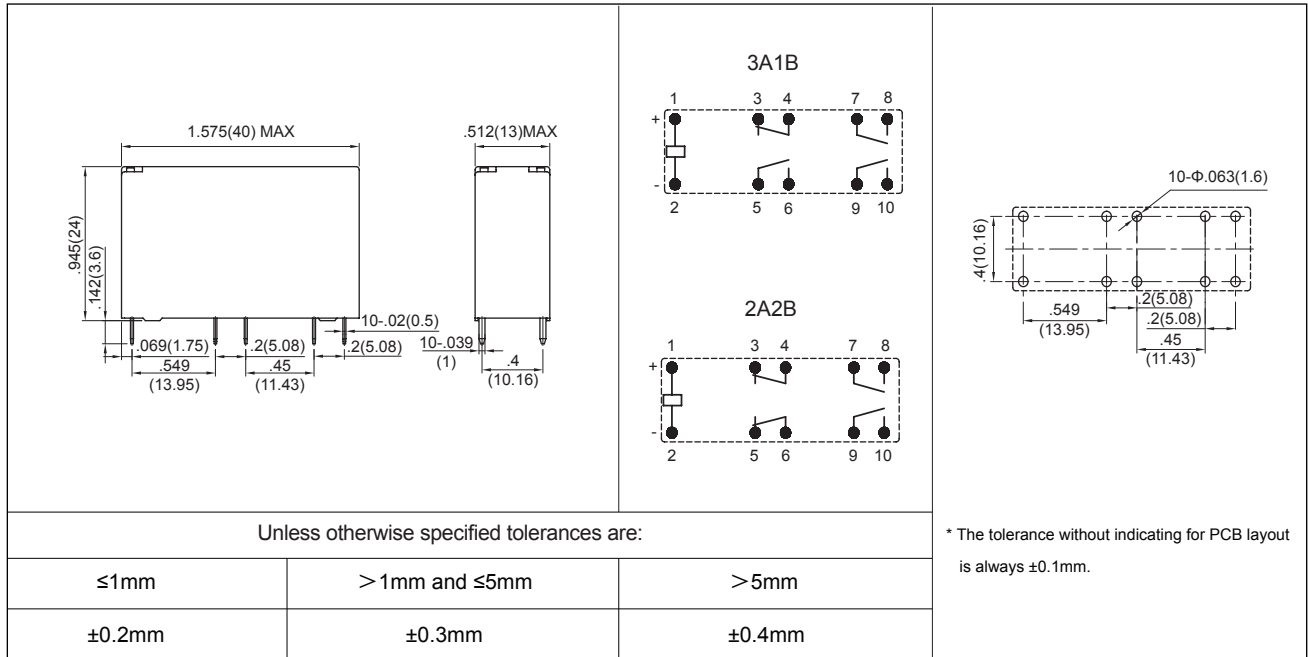
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

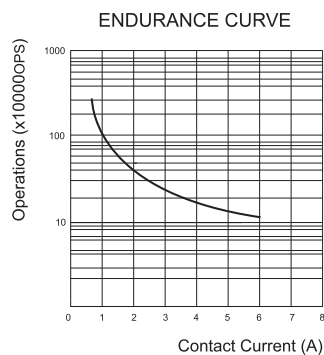
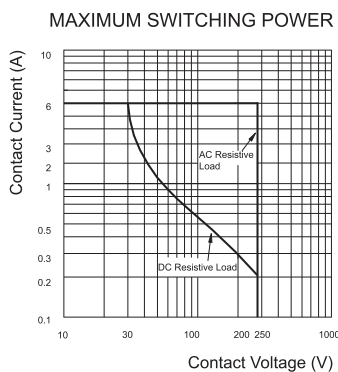
Outline Dimensions

Wiring Diagram
(Bottom view)

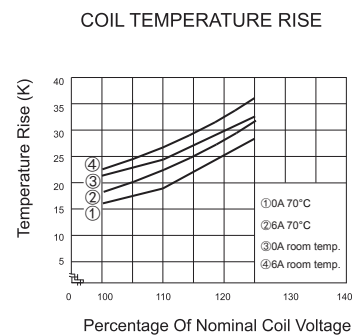
PCB Layout
(Bottom view)



CHARACTERISTIC CURVES



Test conditions:
1NO, Resistive load, 250VAC,
Room temp., 1s on 9s off



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PACKAGING SPECIFICATION

BLISTER BOX	OUTER CARTON	OUTER CARTON SIZE
30PCS	600PCS	L400mm*W400mm*H190mm

APPLICATION GUIDELINES

Automatic Wave Soldering

- * Wave 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	Slodering 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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