



RoHS



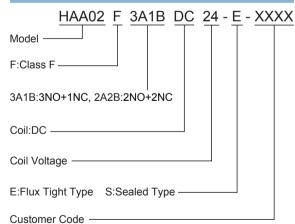
FEATURES

- · Multi contact arrangements: 3NO+1NC, 2NO+2NC
- · Forcibly guided contacts according to EN50205
- 6A switching capability
- · Low input power: 360mW
- Reinforced insulation between input and output, and some reinforced insulation between different poles
- · UL insulation system: Class F

CONTACT RATINGS

Contact Arrangement	3A1B, 2A2B
Forcibly guided contacts Type (according to EN50205)	Туре А
Contact Resistance	≤100mΩ (1A 6VDC)
Contact Material	Gold Flash+Silver Alloy
Contact Rating(Resistive)	6A 277VAC/30VDC
Max. Switching Voltage	400VAC/30VDC
Max. Switching Current	6A
Max. Switching Power	1662VA/180W
Mechanical Life	1×10 ⁷ OPS
Electrical Life	1×10 ⁵ OPS(1NO: 6A 30VDC,
	Resistive Load, 85°C,
	1s on and 9s off)
	1×10 ⁵ OPS(1NO: 6A 277VAC,
	Resistive Load, 85°C,
	1s on and 9s off)

ORDERING INFORMATION



Notes:

- PC board assembled with dust cover type and flux tight type relays can not be washed and/or coated.
- 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.

CHARACTERISTICS

Insulation Resistance		1000MΩ (at 500VDC)	
Dialanteia	Between coil & contacts	4000VAC 1min	
Dielectric Strength	Between open contacts	1500VAC 1min	
	Between contacts sets	2500VAC 1 min(7-8/9-10) 4000VAC 1 min(Other)	
Surge	Between coil & contacts	10kV(1.2/50μs)	
voltage	Between contacts sets	5kV(1.2/50µs)	
Operate time	e (at nomi. volt.)	≤20ms	
Release time (at nomi. volt.)		≤20ms	
Humidity		5% to 85% RH	
Operation temperature		-40°C~+85°C	
UL Class F		Insulation System Class F	
Shock	Functional	98m/s²	
Resistance	Destructive	980m/s²	
Vibration resistance		N.O./N.C.: 10Hz to 55Hz 1.5mm DA	
		N.O.: 55Hz to 200Hz, 98m/s ²	
		N.C.: 55Hz to 200Hz, 49m/s ²	
Creepage	Between coil & contacts	8mm	
distance	Between contacts	5.5mm	
Clearance	Between coil & contacts	8mm	
distance	Between contacts	5.5mm	
Unit weight		Approx. 22g	
Construction		Flux Tight Type, Sealed Type	

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

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



COIL DATA at 25°C

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance Ω±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)

SAFETY APPROVAL RATINGS

UL&CUL	N.O./N.C.:6A 277VAC/250VAC/240VAC/125VAC,	
	85°C, 1×10⁵ 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,	
	1×10⁵ 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 $^{\circ}\text{C}.$
- 2. The above lists the typical loads only. Other loads may be available upon request.



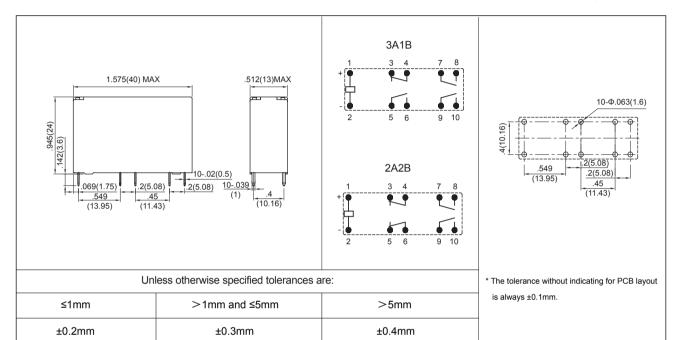
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

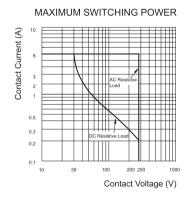
Outline Dimensions

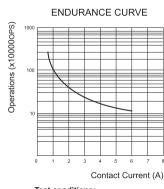
Wiring Diagram (Bottom view)

PCB Layout (Bottom view)



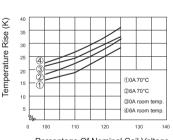
CHARACTERISTIC CURVES





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

COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage



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

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

