







FEATURES

- · 2 Form A and 2 Form C configurations
- · Low height, only 15.7mm
- · Creepage/clearance distance >10mm,

Meets reinforce insulation

• 5KVAC dielectric strength (between coil and contacts)

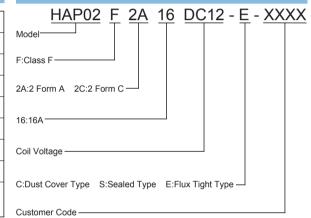
CONTACT RATINGS

Contact Arrangement	2A, 2C
Contact Resistance	≤100mΩ (1A 6VDC)
Contact Material	AgSnO
Contact Rating	16A/277VAC
Max. Switching Voltage	277VAC
Max. Switching Current	16A
Max. Switching Power	4432VA
Mechanical Life	5×10 ⁶ operations
Electrical Life	1×10 ⁵ operations (2NO:16A/277VAC, Resistive load 85°C, 1s on 9s off)

CHARACTERISTICS

Insulation Re	esistance	1000MΩ (at 500VDC)	
Dielectric Strength	Between coil & contacts	5000VAC 1min	
	Between open contacts	1000VAC 1min	
	Between contacts sets	2500VAC 1min	
Surge Voltage(Between coil & contacts)		10kVAC(1.2/50μs)	
Operate time (at nomi. volt.)		≤10ms	
Release time (at nomi. volt.)		≤5ms	
Humidity		5% to 85% RH	
Operation temperature		-40°C~+105°C	
Class F		Insulation System Class F	
Shock	Operating extremes	98m/s ²	
Resistance	Damage limits	980m/s ²	
Vibration resistance		10Hz ~ 50Hz 1.0mm DA	
Unit weight		Approx. 16.5g	
Construction		Sealed Type, Dust Cover Type, Flux Tight Type	

ORDERING INFORMATION



Notes:

- 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

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance Ω±10%
5	3.5	0.50	7.5	31.3
6	4.2	0.60	9.0	45.0
9	6.3	0.90	13.5	101.3
12	8.4	1.20	18.0	180
24	16.8	2.40	36.0	720
48	33.6	4.80	72.0	2880

Note:

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

COIL

Coil Power Approx. 800mW

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



Notes: The data shown above are initial values.

SAFETY APPROVAL RATINGS

UL & N.O.:16A/277VAC, Resistive, 5×10⁴ OPS, 85°C N.O.:5A 120VAC, E. Ballast, 6×10³ OPS, 40°C N.O.:1HP 240VAC, Horse Power, 6×10³ OPS, 40°C N.O.:TV-8 120VAC, 2.5×10⁴ OPS, 50°C N.C.:16A/277VAC, Resistive, 2×10⁴ OPS, 85°C N.O./N.C.:16A/277VAC, Resistive, 6×10³ OPS, 85°C

TüV N.O.:16A/277VAC, Resistive, 1×10⁵ OPS, 85°C N.O.:16A/277VAC, Resistive, 5×10⁴ OPS, 105°C N.C.:16A/277VAC, Resistive, 5×10⁴ OPS, 85°C N.O./N.C.:16A/277VAC, Resistive, 2×10⁴ OPS, 85°C

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.

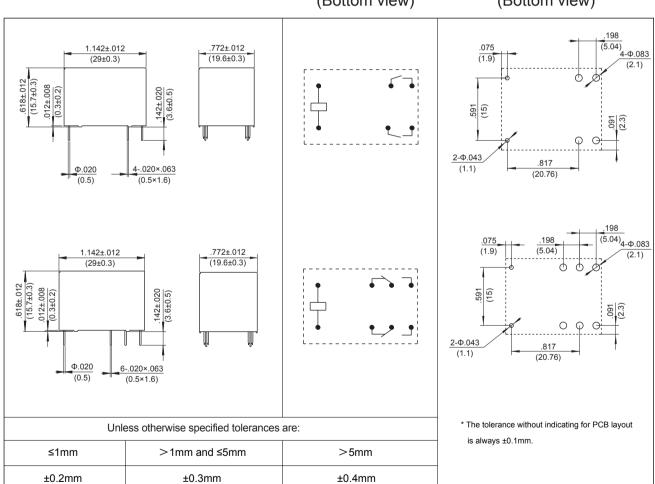
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

Outline Dimensions

Wiring Diagram (Bottom view)

PCB Layout (Bottom view)



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PACKAGING SPECIFICATION

BLISTER BOX	INNER CARTON	OUTER CARTON	OUTER CARTON SIZE
25PCS	650PCS	1300PCS	L580mm*W400mm*H175mm

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	Rising slope	Decreasing slope	Welding 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	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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