HAP01 SERIES

LATCHING RELAY



CONTACT RATINGS

Contact Arrangement 1A Contact Resistance ≤100mΩ (1A 6VDC) AgSnO Contact Material Contact Rating(Resistive) 16A 277VAC, 2×104 (Resistive, 85°C) 600W 120VAC, 2.5×104(Incandescent lamp, 50°C) 8A 277VAC, 6×103 (Standard ballast, 50°C) 5A 120VAC, 6×103(Electronic ballast, 40°C) 5A 240VAC, 2.5×104(TV-5, 40°C) Max. Switching Voltage 277VAC

F:Class F-1A=1 Form A-16:16A — Coil Voltage -2:2 coils Blank:1 coil -1×10⁶ operations See more details at "safety approval ratings"

CHARACTERISTICS

Max. Switching Current

Max. Switching Power

Mechanical Life

Electrical Life

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Insulation Resistance		1000MΩ (at 500VDC)	
Dielectric Strength	Between coil & contacts	5000VAC 1min	
	Between open contacts	1000VAC 1min	
Operate time (at nomi. volt.)		≤15ms	
Release time (at nomi. volt.)		≤15ms	
Humidity		5 to 85% R.H.	
Operation temperature		-40°C~+85°C	
UL Class F		Insulation System Class F	
Shock	Functional	$100 m/s^2 \ (half-wave pulse of sine wave:10ms, Detection time:10 \mu s)$	
Resistance	Destructive	1000m/s ² (half-wave pulse of sine wave:6ms)	
Vibration	Functional	10Hz to 55Hz 1.5mm DA(Detection time:10µs)	
Resistance	Destructive	10Hz to 55Hz 3mm DA	
Unit weight		Approx. 7.7g	
Construction		Flux Tight Type, Sealed Type,	

16A

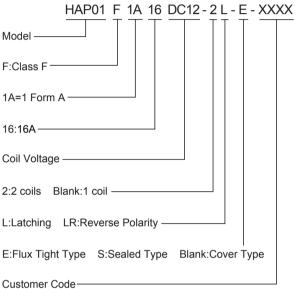
4432VA

ORDERING INFORMATION

16A switching capacity

FEATURES

5000V



· Dielectric strength(between contact and coil):

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: The data shown above are initial values.

RELAYS & ELECTRONICS INT'L. CORP.

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





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HAP01 SERIES

LATCHING RELAY

COIL DATA

at 25°C

Nominal	Set/Reset	Width				
Voltage	Voltage (Max.)		(Max.) (Min.) 1 Coil	1 Coil	2 C	oils
VDC				1 001	Set coil	Reset coil
3	2.4	30	45	22.5	22.5	
5	4.0	30	125	62.5	62.5	
6	4.8	30	180	90.0	90.0	
9	7.2	30	405	202.5	202.5	
12	9.6	30	720	360.0	360.0	
24	19.2	30	2880	1440.0	1440.0	

* For the Set time/Reset time it is recommended to use a minimum 30 ms pulse duration for the nominal coil voltage to compensate for varying ambient temperature and relay aging.

COIL

Coil Power	1 Coil: 200mW
	2 Coils: 400mW

SAFETY APPROVAL RATINGS

Other agency approval (Pending)	Resistive:16A 277VAC, 85°C Resistive:5A 30VDC, 85°C Incandescent lamp:600W 120VAC, 50°C Standard ballast:8A 277VAC, 50°C Electronic ballast:5A 120VAC, 40°C TV-5:5A 240VAC, 40°C
TüV	N.O.:16A 277VAC, 85°C, 2×10 ⁴ OPS N.O.:16A 277VAC, 60°C, 5×10 ⁴ OPS N.O.:8A 125VAC, 85°C, 5×10 ⁴ OPS N.O.:5A 347VAC, 85°C, 5×10 ⁴ OPS N.O.:5A 30VDC, 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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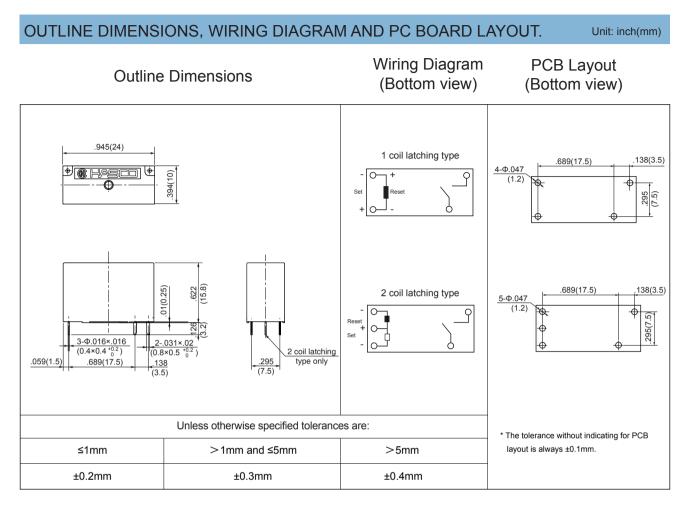
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HAP01 SERIES

LATCHING RELAY



Notice

- 1. Relay is on the "reset" or "set" status when being released form stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" or "reset" status, therefore, when application (connecting the power supply), please reset the relay to "set" or "reset" status on request.
- 2. Do not energize voltage to "set" coil and "reset" coil simultaneously. And also long energized time (more than 1 min) should be avoided.

PACKAGING SPECIFICATION

BLISTER BOX	OUTER CARTON	OUTER CARTON SIZE
100PCS	1000PCS	L390mm*W270mm*H140mm

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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	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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