



IOEC
In&Out Electronic Corp.



HA

► FEATURES

- Small size, light weight. Low coil power consumption, heavy contact load. Strong anti-shock and anti-vibration, high reliability, long life.
- Suitable for automobile, machine, electronic equipment, air conditioner and household appliance applications.
- PC board mounting.



32.5*27.6*20.5

► CONTACT DATA

Contact Arrangement	1A、1B、1C	
Contact Material	Ag·CdO Ag·SnO ₂ Ag·SnO ₂	
Contact Rating (resistive)	NO:30A/240VAC,14VDC; NC:20A/240VAC ;30A/14VDC NO:40A/250VAC,30VDC; NC:30A/250VAC,30VDC (0.9W)	
Max. Switching Power	1100W 7200VA	
Max. Switching Voltage	110VDC 250VAC	Max. Switching Current:40A
Contact Resistance or Voltage drop	≤30mΩ	
Operation life	Electrical	10 ⁵
	Mechanical	10 ⁷

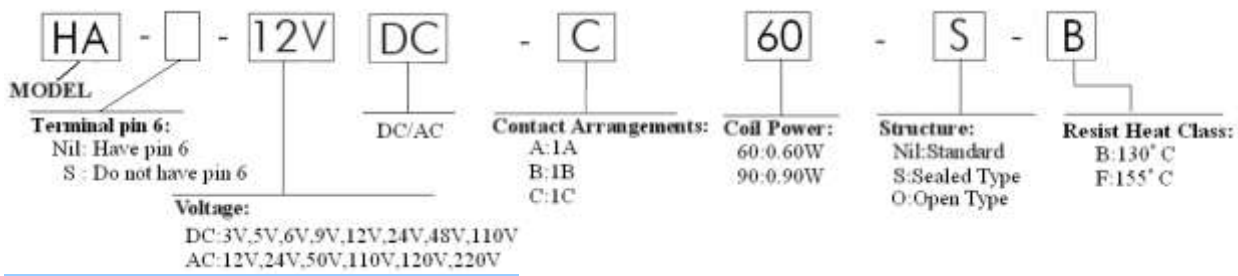
► COIL PARAMETER

Coil voltage		Coil resistance (Ω ±10%)	Pickup voltage(max)(VDC) (75%of rated voltage)	release voltage(min) (VDC) (10% of rated voltage)	Coil power consumption (W)	Operate Time (ms)	Release Time (ms)
Rated	Max.						
DC							
3	3.9	10/15	2.25	0.3	0.9/0.6	≤15	≤10
5	6.5	28/42	3.75	0.5			
6	7.8	40/60	4.50	0.6			
9	11.7	90/135	6.75	0.9			
12	15.6	160/240	9.00	1.2			
15	19.5	250/375	10.25	1.5			
18	23.4	360/540	13.50	1.8			
24	31.2	640/960	18.00	2.4			
48	62.4	2560/3840	36.00	4.8			
110	143	13445/20167	82.50	11.0			
AC			80%of rated voltage(VAC)	30% of rated voltage(VAC)	2VA	≤25	≤25
12		27	9.6	3.6			
24		120	19.2	7.2			
110		2360	88.0	33.0			
120		3040	96.0	36.0			
220		13490	176.0	66.0			

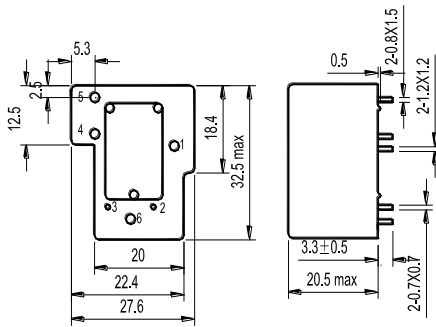
► OPERATION CONDITION

Insulation Resistance	1000MΩ min (at 500VDC)
Dielectric Strength	
Between contacts	50Hz 1500V
Between contact and coil	50Hz 2500V (do not have pin 6) 50Hz 1500V: (with pin 6)
Shock resistance	200m/s ² 11ms
Vibration resistance	10~55Hz double amplitude 1.5mm
Terminals strength	10N
Solder ability	250℃ ± 2℃ 3 ± 0.5s
Ambient Temperature	-55~100℃ -55~125℃
Relative Humidity	85% (at 40℃)
Weight	27g (Open type) . 30g

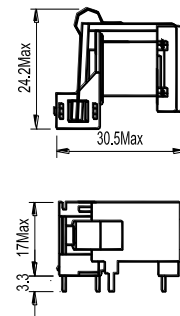
► ORDERING INFORMATION



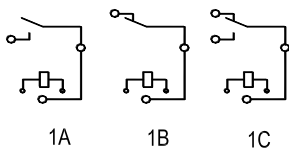
► DIMENSIONS (UNIT: mm)



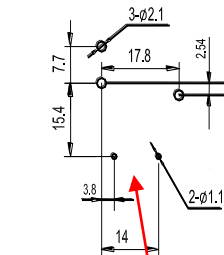
Dimensions



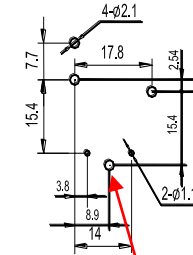
Dielectric Between



Wiring diagram(Bottom views)



(Do not have Pin6)
Contact & Coil 50Hz/2500V
Mounting (Bottom views)



(With Pin6)
50Hz/1500V
Mounting (Bottom views)

mm	inch
0.5	0.020
0.7	0.027
0.8	0.031
1.1	0.043
1.2	0.047
1.5	0.059
2.1	0.083
2.5	0.098
2.54	0.100
3.3	0.130
3.8	0.150
5.3	0.209
7.7	0.303
8.9	0.350
12.5	0.492
14	0.551
15.4	0.606
17	0.669
17.8	0.701
18.4	0.724
20	0.787
20.5	0.807
22.4	0.882
24.2	0.953
27.6	1.087
30.5	1.201
32.5	1.279

- NOTES** 1).Dimensions are in millimeter.
2).Inch equivalents are given for general information only.

► REFERENCE DATA

