



Open Type
13.2×15.3×18



Dust Covered
17.5×15×20

Features

- Superminiature, heavy power.
- Low coil power consumption.
- Switching current up to 20A.
- PC board mounting.
- Suitable for household appliances, electrical equipment, automation system, and automobile industry application.

Contact Data

Contact Arrangement	1A 1U	1B 1V	1C 1W
Contact Material	AgNi AgSnO ₂		
Contact Rating (resistive)	1A,1B,1C: 10A/120VAC,28VDC 20A/14VDC ; 1U,1V,1W: 2×10A/120VAC,28VDC 2×20A/14VDC ;		
Max. Switching Power	1C: 280W 1200VA 1W: 2×280W 2×1200VA		
Max. Switching Voltage	75VDC 380VAC		Max. Switching Current:20A
Contact Resistance or Voltage drop	<50mΩ		Item 4.12 of IEC 61810-7
Operation life	Electrical	10 ⁵ Item 4.30 of IEC 61810-7	
	Mechanical	10 ⁷ Item 4.31 of IEC 61810-7	

ORDERING DESIGNATION

Example: HR-AMR-Y/012Z1L

HR-AMR-Y	/	012	Z	1	L
Model		Coil Voltage	Contact Form	Version	Contact rating
HR-AMR-Y=AUTO.		006=6.0V 012=12V 024=24V	H=1A D=1B Z=1C SH=1U SD=1V SZ=1W	1=SEALED 2=OPEN 3=DUST COVER	L=Ag Sn O ₂

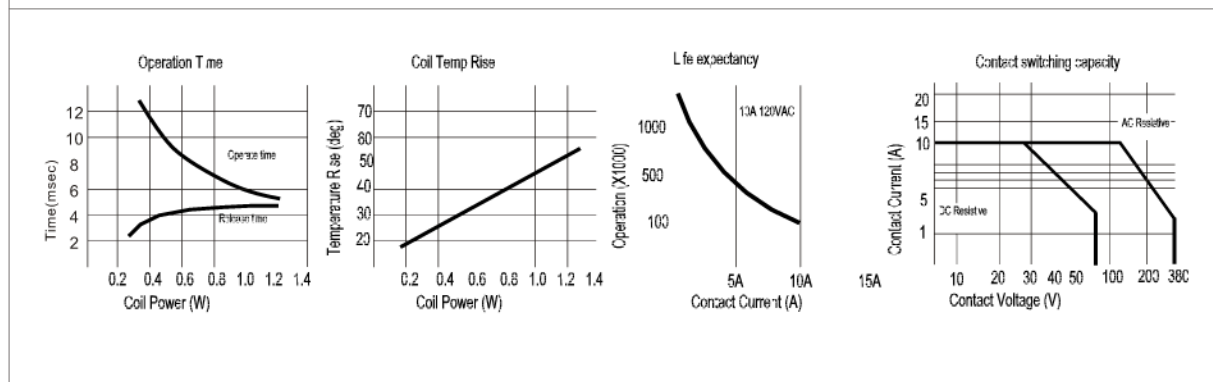
Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	Pickup voltage VDC(max) (75% of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
003-1000	3	3.9	9	2.25	0.3	1.0	≤ 10	< 5
005-1000	5	6.5	25	3.75	0.5			
006-1000	6	7.8	36	4.50	0.6			
009-1000	9	11.7	85	6.75	0.9			
012-1000	12	15.6	145	9.00	1.2			
018-1000	18	23.4	324	13.5	1.8			
024-1000	24	31.2	576	18.0	2.4			
012-1200	12	15.6	120	9.00	1.2	1.2	< 10	< 5

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

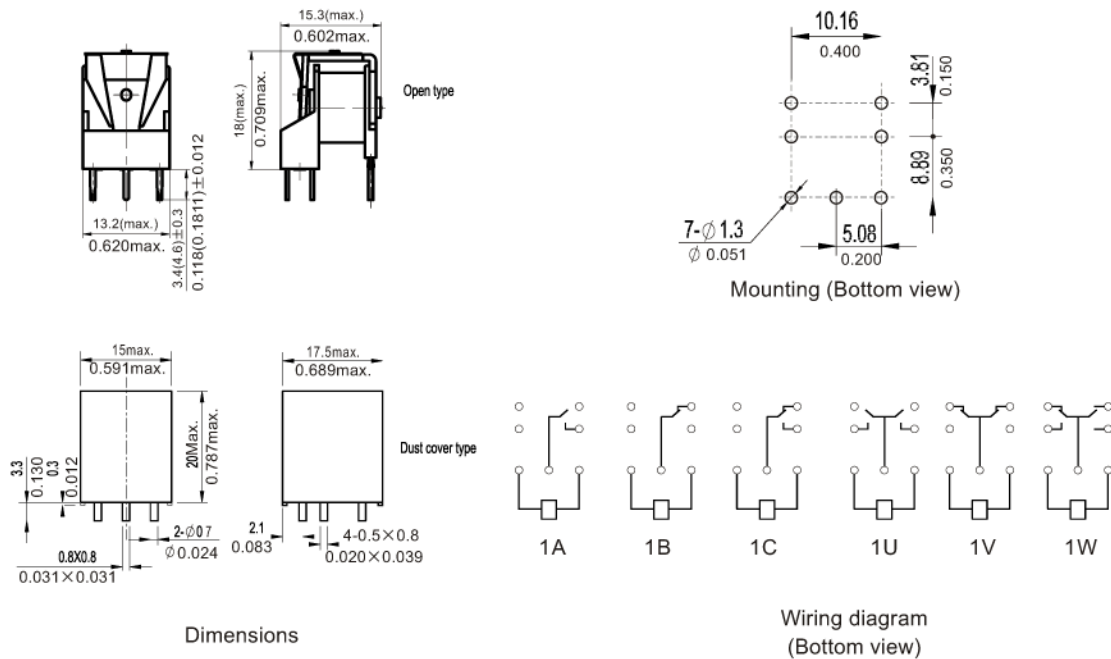
Operation condition

Insulation Resistance	100M Ω min (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength Between contacts Between contact and coil	50Hz 750V 50Hz 1500V	Item 6 of IEC 61810-5 Item 6 of IEC 61810-5
Shock resistance	100m/s ² 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~40Hz double amplitude 1.27mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	235 $^{\circ}$ C \pm 2 $^{\circ}$ C 3 \pm 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC68-2-3 Test Ca
Mass	9g (Open type) 12g	

Reference Data


Dimensions

mm /inch



Dimensions

Wiring diagram
(Bottom view)

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

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