4117



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.

Ordering Information

4117	C	S	10	12VDC	1.0
1	2	3	4	5	6

1 Part number：4117
2 Contact arrangement：A:1A;B:1B;C:1C;U:IU;V:1V;W:1W
3 Enclosure：S: Sealed type；Z: Dust cover
O: Open type
4 Contact Current：10:10A；20:20A
5 Coil rated Voltage(V)：DC:3,5,6,9,12,18,24
6 Coil power consumption：1.0:1.0W；1.2:1.2W

Contact Data

Contact Arrangement		1A(SPSTNO) 1B(SPSTNC) 1C (SPDT(B-M)) 1U(SPSTNODM) 1V(SPSTNCDB) 1W(SPDTNC-NO)
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

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω±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

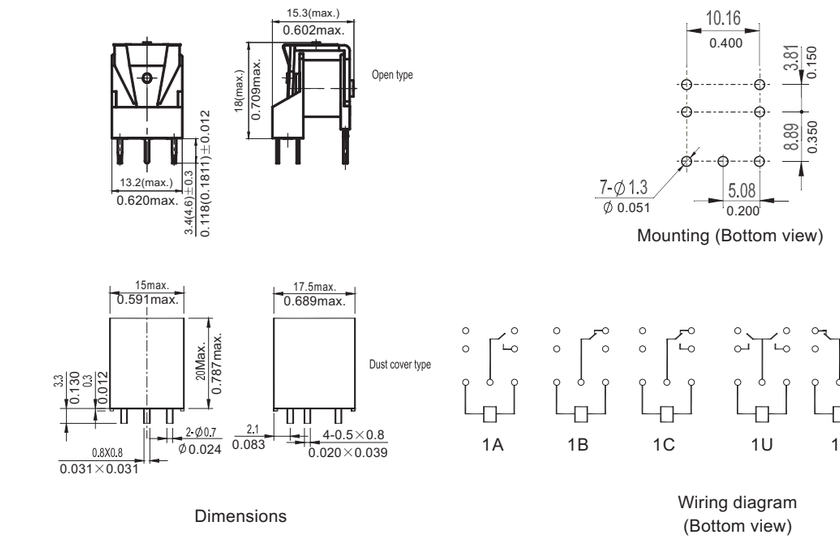
CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	100MΩ 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℃±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3Test Ca
Mass	9g (Open type) 12g	

Dimensions

mm /inch



Mounting (Bottom view)

Dimensions

Wiring diagram
(Bottom view)

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

Reference Data

