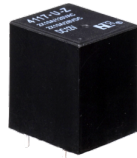




Unenclosed
13.2×15.3×18



Wash tight
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** **DC12V** **1.0**
1 2 3 4 5 6

- | | |
|---|--|
| 1 Part number: 4117 | 4 Contact rating: 10:10A; 20:20A |
| 2 Contact arrangement: A:1A; B:1B; C:1C; U:1U; V:1V; W:1W | 5 Coil rated voltage(V): DC:3,5,6,9,12,18,24 |
| 3 Enclosure: S: Wash tight; Z: Flux proof; O: Unenclosed | 6 Coil power: 1.0:1.0W; 1.1:1.1W; 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	AgSnO ₂ AgNi	
Contact Rating	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	30VDC 277VAC	Max. Switching Current:20A
Voltage Drop(Initial)	Typ.: 50mV(at 10A)	Item 4.12 of IEC 61810-7
Electrical Endurance	1×10 ⁵	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10 ⁷	Item 4.31 of IEC 61810-7

Notes: For the open type relays, the min. contact switching is 100mA/6VDC.

Coil Parameter

Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	Pick-up voltage VDC(max) (75% of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
Rated	Max.						
3	3.9	9	2.25	0.3	1.0	≤ 10	≤ 5
5	6.5	25	3.75	0.5			
6	7.8	36	4.50	0.6			
9	11.7	85	6.75	0.9			
12	15.6	145	9.00	1.2			
18	23.4	324	13.5	1.8			
24	31.2	576	18.0	2.4			
12	15.6	130.9	9.00	1.2	1.1	≤ 10	≤ 5
24	31.2	523.6	18.0	2.4			
12	15.6	120	9.00	1.2	1.2	≤ 10	≤ 5

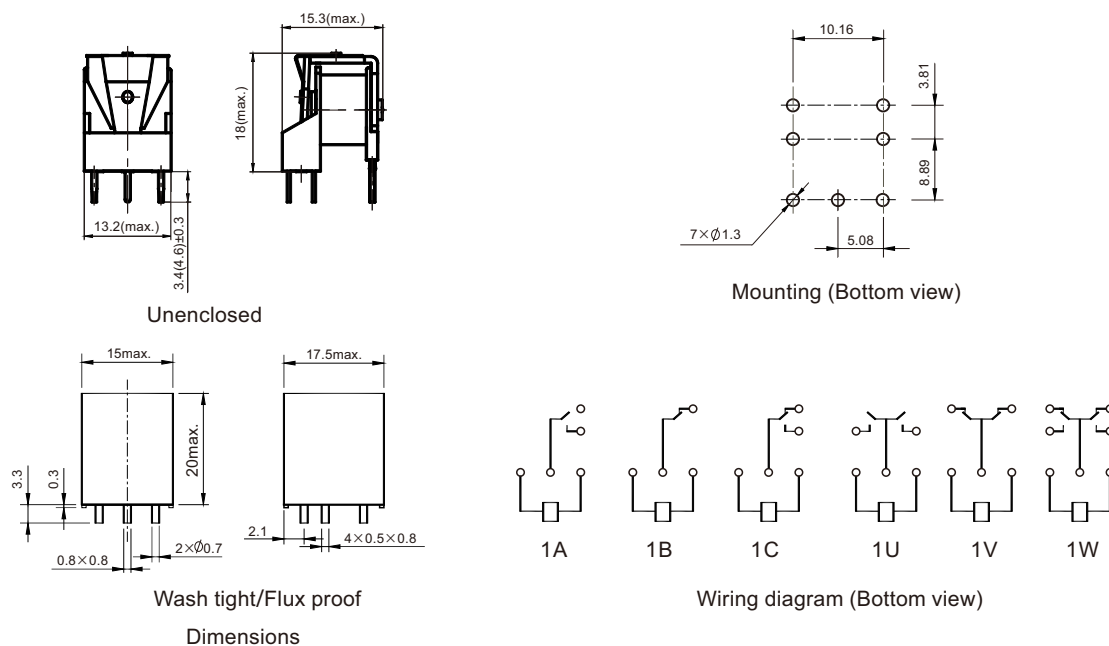
- Notes:** 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Insulation Resistance	100M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Open Contacts Between Contact and Coil	750VAC 1min 1500VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	98m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~40Hz Double amplitude 1.27mm	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~105℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	9g (Unenclosed) 12g	Item 4.7 of IEC 61810-7

Dimensions

mm



Remark: In case of no tolerance shown in outline dimension: outline dimensions ≤ 1 mm, tolerance should be ± 0.2 mm ;
outline dimension > 1 mm and ≤ 5 mm, tolerance should be ± 0.3 mm; outline dimension > 5 mm, tolerance should be ± 0.4 mm.

Reference Data

