



Unenclosed
24×19×20



Wash tight
26.8×21.5×22.3

Features

- Small size, heavy contact load, capable of standing strong current of 45A at 14VDC.
- PC board mounting.
- Suitable for automatic control facilities and automobile application etc.
- Both European 11mm pole distance and American 8mm pole distance available.

Ordering Information

4120 C S 30 DC12V 1.6 U
 1 2 3 4 5 6 7

1 Part number: 4120
 2 Contact arrangement: A:1A; B:1B; C:1C
 3 Enclosure: S: Wash tight ; Z: Flux proof ;
 O: Unenclosed

4 Contact current: 30:30A; 40:40A; 45:45A
 5 Coil rated voltage(V): DC:6,9,12,18,24
 6 Coil power: 1.6:1.6W; 1.9:1.9W
 7 Terminal distance type: U:USA; E:European

Contact Data

Contact Arrangement	1A(SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))		
Contact Material	AgSnO ₂ , AgNi		
Contact Rating(Resistive)	1A: 40A,45A/14VDC;1B:30A/14VDC; 1C:NO:40A/14VDC;NC:30A/14VDC;20A/120VAC,15A/28VDC		
Max. Switching Power	630W 2400VA		
Max. Switching Voltage	75VDC 277VAC		
Max. Switching Current	Make:100A(Lamp,Inrush current) Break:60A(Resistive)		
Voltage Drop(Initial)	Typ. 50mV(at 10A)		Item 4.12 of IEC 61810-7
Operation	Electrical	1×10 ⁵	Item 4.30 of IEC 61810-7
Life	Mechanical	1×10 ⁷	Item 4.31 of IEC 61810-7

CAUTION: 1.For the intermediate current, it only applies to the room temperature.
 2.For the open type relays, the min. Switching current and min. Switching voltage is 100mA/6VDC.

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ± 10%	Pick-up voltage VDC(max) (70%of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max.						
006-1900 009-1900	6 9	7.8 11.7	19 42.6	4.20 6.30	0.6 0.9	1.9	≤7	≤5
012-1600 018-1600 024-1600	12 18 24	15.6 23.4 31.2	90 202.5 360	8.40 12.6 16.8	1.2 1.8 2.4	1.6		

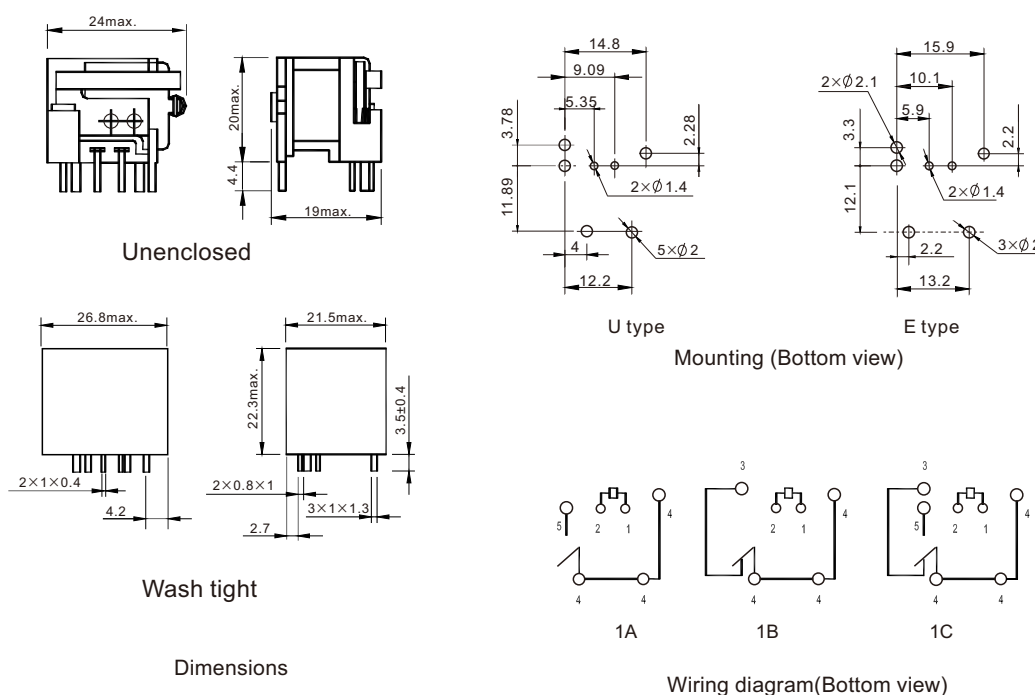
CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Insulation Resistance	100M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	50Hz 500V 50Hz 750V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	196m/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 $^{\circ}$ C~125 $^{\circ}$ C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	19g (Unenclosed) 21g	Item 4.7 of IEC 61810-7

Dimensions

mm



CAUTION: In case of no tolerance shown in outline dimension: outline dimension ≤ 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

