



29.6×18×20

4117-2

Patent No. 95319882.0

Features

- Twin structure of 4117 type.
- Small size, light weight.
- Low coil power consumption.
- PC board mounting.

Contact Data

Contact Arrangement	2A, 2C, 2U, 2W	
Contact Material	AgNi Ag-SnO ₂ AgCdO	
Contact Rating (resistive)	2A, 2C: 2×10A/120VAC,28VDC ; 2U, 2W: 2×(2×10A)/120VAC, 28VDC	
Max. Switching Power	280W 1200VA	
Max. Switching Voltage	75VDC 380VAC	Max. Switching Current:10A
Contact Resistance or Voltage drop	≤50mΩ	Item 3.12 of IEC255-7
Operation life	Electrical	10 ⁵ Item 3.30 of IEC255-7
	Mechanical	10 ⁷ Item 3.31 of IEC255-7

Coil Parameter

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.						
3	3.9	9×2	2.25	0.3	2×1.0	≤10	≤5
5	6.5	25×2	3.75	0.5			
6	7.8	36×2	4.50	0.6			
9	11.7	85×2	6.75	0.9			
12	15.6	145×2	9.00	1.2			
18	23.4	324×2	13.5	1.8			
24	31.2	576×2	18.0	2.4			

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 IEC255-5
Dielectric Strength		
Between contacts	50Hz 750V	Item 6 of IEC255-5
Between contact and coil	50Hz 1500V	Item 6 of IEC255-5
Shock resistance	100m/s ² 11ms	IEC68-2-27 Test Ea method 1
Vibration resistance	10~40Hz double amplitude 1.27mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	230℃ ±2℃ 10 ±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3Test Ca
Mass	20g	

Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Ordering Information			
4117-2	2A	S	DC12V
Coil rated DC Voltage 3V, 5V, 6V, 9V, 12V, 18V, 24V			
S: Sealed type, Z: Dust Covered			
Contact Arrangement: 2A: 2A, 2C: 2C, 2U: 2U, 2W: 2W			
Part number: 4117-2			

Dimensions (Unit: mm)

The technical drawings include a side view with dimensions 20mm width and 18mm height. A top view shows a 29.6mm width with mounting holes spaced 5.08mm apart. A bottom view shows 14 mounting holes with a diameter of 1.4mm, arranged in a 2x7 grid with 8.89mm between rows and 4mm between columns. A conversion table is provided below the drawings.

mm	inch
0.3	0.012
1.4	0.055
2.1	0.083
2.4	0.094
3.81	0.150
4.0	0.157
5.08	0.200
8.89	0.350
10.16	0.400
18	0.709
20	0.787
29.6	1.165

Dimensions

Mounting (Bottom views)

Wiring diagram(Bottom views)

2U 2A 2W 2C

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

