

NINGBO HUAGUAN ELECTRONICS CO.,LTD.





























NHG RELAYS





4117



Open Type 13.2×15.3×18



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

Contact Data

	100						
Contact Arran	gement	1A (SPSTNO) 1C (SPDT(B-M)) 1U (SPSTNODM) 1W (SPDTNC-NO)					
Contact Mater	rial	AgSnO ₂					
Contact Ratin	g (resistive)	1A、1C: 10A/120VAC,28VDC 20A/14VDC;					
		1U: 2×10A/120VAC,28VDC 2×20A/14VDC;					
		1W: 2×10A/120VAC,28VDC 2×20A/14VDC					
Max. Switchin	g Power	1C: 280W 1200VA 1W: 2×280W 2×1200VA					
Max. Switchin	g Voltage	75VDC 380VAC Max. Switching Current:20A					
Contact Resis	stance or Voltage drop	≤50mΩ Item 3.12 of IEC255-7					
Operation	Electrical	10 ⁵ Item 3.30 of IEC255-7					
life	Mechanical	10 ⁷ Item 3.31 of IEC255-7					

Coil Parameter

Dash numbers		oltage DC	Coil resistance $\Omega\pm10\%$	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			
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	1.0	≤10	≪5
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.

FORWARD RELAYS





4117

Open Type 13.2×15.3×18

Dust Covered $17.5 \times 15 \times 20$

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1 Part number: 4117 2 Contact arrangement: A:1A; C:1C; U:IU; 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

Oomaot Data						
Contact Arrangement	1A (SPSTNO) 1C (SPDT(B-M)) 1U (SPSTNODM) 1W (SPDTNC-NO)					
Contact Material	AgSnO ₂					
Contact Rating (resistive)	1A、1C: 10A/120VAC,28VDC 20A/14VDC;					
	1U: 2×10A/120VAC,28VDC 2×20A/14VDC;					
	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 3.12 of IEC255-7					
Operation Electrical	10 ⁵ Item 3.30 of IEC255-7					
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