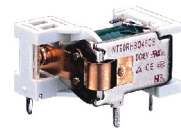


DB LECTRO ^{UN}

Présente / Presents:

NINGBO HUAGUAN ELECTRONICS CO., LTD.

NHG ^R



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; C:1C; U:1U; 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) 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 life	Electrical 10 ⁵ Item 3.30 of IEC255-7
	Mechanical 10 ⁷ Item 3.31 of IEC255-7

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			

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.

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; C:1C; U:1U; 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) 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 life	Electrical 10 ⁵ Item 3.30 of IEC255-7
	Mechanical 10 ⁷ Item 3.31 of IEC255-7

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.