

N4099



22×16.5×16.5

UL us E158859 CQC 06001015743

Features

- Small size, light weight, Low price.
- Sensitive operation, good synchronism.
- Low coil power consumption.
- PC board mounting.
- Suitable for electrical application, telecommunication, automatic control, wireless radio remote control and sound control toy application.

Ordering Information

N4099 12D E
 1 2 3

- 1 Part number: N4099
 2 Coil rated voltage(V): DC:3,5,6,9,12,24,48
 3 Enclosure: E: Wash tight ; NIL:Flux proof

Contact Data

Contact Arrangement	2A(DPSTNO) 2B(DPSTNC) 2C(DPDT(B-M))		
Contact Material	Ag Alloy(Au plated)		
Contact Rating (Resistive)	2A,3A/277VAC,30VDC; 0.6W:5A,10A/277VAC,30VDC;6A/125VAC		
Max. Switching Power	90W 850VA; 0.6W:300W 2770VA		
Max. Switching Voltage	30VDC 277VAC	Max. Switching Current:10A	
Contact Resistance or Voltage Drop	≤50mΩ	Item 4.12 of IEC 61810-7	
Operational Life	Electrical	1×10 ⁵	Item 4.30 of IEC 61810-7
	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 gold plated version, the min. switching current and min. switching voltage is 50mA/6VDC; for non gold plated version (standard type),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) (75%of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max.						
003-450	3	3.9	20	2.25	0.3	0.45	≤10	≤5
005-450	5	6.5	56	3.75	0.5			
006-450	6	7.8	80	4.50	0.6			
009-450	9	11.7	180	6.75	0.9			
012-450	12	15.6	320	9.00	1.2			
024-450	24	31.2	1280	18.0	2.4			
048-450	48	62.4	5120	36.0	4.8	0.5	≤10	≤5
003-500	3	3.9	18	2.25	0.3			
005-500	5	6.5	50	3.75	0.5			
006-500	6	7.8	72	4.50	0.6			
009-500	9	11.7	162	6.75	0.9			
012-500	12	15.6	288	9.00	1.2			
024-500	24	31.2	1152	18.0	2.4	0.6	≤10	≤5
048-500	48	62.4	4608	36.0	4.8			
003-600	3	3.9	15	2.25	0.3			
005-600	5	6.5	42	3.75	0.5			
006-600	6	7.8	60	4.50	0.6			
009-600	9	11.7	135	6.75	0.9			
012-600	12	15.6	240	9.00	1.2	960	18.0	2.4
024-600	24	31.2	960	18.0	2.4			
048-600	48	62.4	3840	36.0	4.8			

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

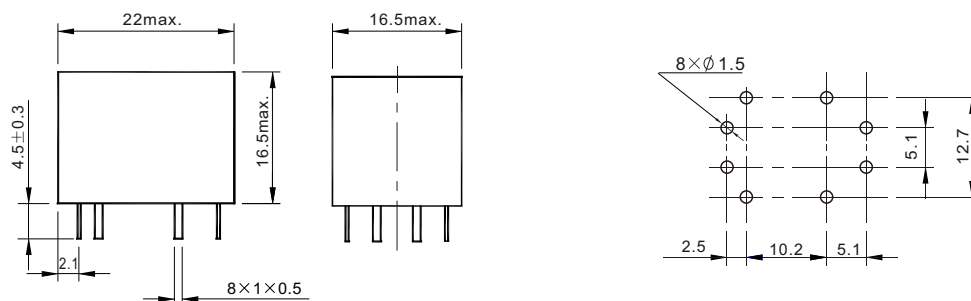
Insulation Resistance	100M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	50Hz 750V 50Hz 1000V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	98m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40 $^{\circ}$ C~70 $^{\circ}$ C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	12g	Item 4.7 of IEC 61810-7

Safety Approvals

Safety approval	UL&CUR	CQC
Load	5A/277VAC, 30VDC; 6A/125VAC,30VDC	5A/277VAC

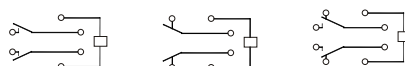
Dimensions

mm



Dimensions

Mounting (Bottom view)



2A 2B 2C
Wiring diagram(Bottom view)

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

