



22×16.5×16.5

N4099



Features
<ul style="list-style-type: none"> ▪ 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 <u>12D</u> <u>E</u> 1 2 3
1 Part number : N4099 2 Coil rated voltage(V) : DC:3,5,6,9,12,24,48 3 Enclosure : E: Sealed type ; NIL:Dust cover

Contact Data	
Contact Arrangement	2A(DPSTNO) 2B (DPSTNC) 2C (DPDT(B-M))
Contact Material	AgCdO (Au clad) AgSnO ₂ (Au clad) AgNi (Au clad)
Contact Rating (resistive)	1A,2A,3A/277VAC,30VDC; 0.6W:3A,5A,10A/277VAC,30VDC 6A/125VAC
Max. Switching Power	0.5W:90W 850VA; 0.6W:300W 2770VA
Max. Switching Voltage	50VDC 380VAC Max. Switching Current:10A
Contact Resistance or Voltage drop	<50mΩ Item 4.12 of IEC 61810-7
Operational life	Electrical 10 ⁵ Item 4.30 of IEC 61810-7
	Mechanical 10 ⁷ Item 4.31 of IEC 61810-7

CAUTION N: 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

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.						
003-450	3	3.9	20	2.25	0.3	0.45	<10	<5
005-450	5	6.5	55.5	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			
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			
048-500	48	62.4	4608	36.0	4.8			
003-600	3	3.9	15	2.25	0.3	0.6	<10	<5
005-600	5	6.5	41.7	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			
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.



Operation condition

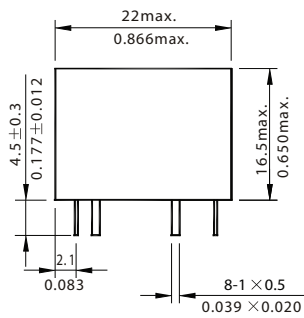
Insulation Resistance	100M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 750V 50Hz 1000V	Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	100m/s ² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 Test Ua1
Solderability	235 $^{\circ}$ C \pm 2 $^{\circ}$ C 3s \pm 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40 $^{\circ}$ C ~70 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC 68-2-3 Test Ca
Mass	12g	

Safety approvals

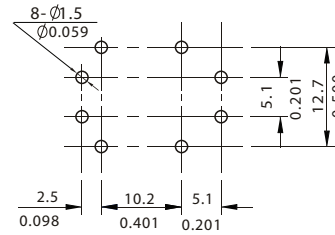
Safety approval	UL&CUR
Load	5A/277VAC 30VDC 6A/125VAC,30VDC

Dimensions

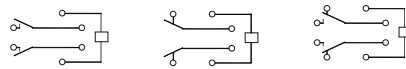
mm /inch



Dimensions



Mounting (Bottom view)



2A 2B 2C

Wiring diagram (Bottom view)

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

Reference Data

