N68F

28.5×10.1×12.5

c UL us E169380

Features

- Slim type and small occupying area can offer high density PCB technique.
- Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
- Dielectric strength 5000V.
- Creepage distance >8mm.

Ordering Information

N68F	C	S	8	DC12V	F
1	2	3	4	5	6

1 Part number: N68F
2 Contact arrangement: A:1A; C:1C
3 Enclosure: S:Wash tight; Z:Flux proof
4 Contact rating: 8:8A
5 Coil rated voltage(V): DC:5,6,12,18,24,48
6 Insulation standard: B:130℃; F:155℃

Contact Data

Contact Arrangement	1A (SPSTNO) 1C (SPDT(B-M))	
Contact Material	$AgSnO_2$ AgNi	
Contact Rating	8A/250VAC,30VDC	
Max. Switching Power	240W 2000VA	
Max. Switching Voltage	300VDC 440VAC	Max. Switching Current:10A
Contact Resistance	≤100mΩ	Item 4.12 of IEC 61810-7
Electrical Endurance	1×10^5	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10^7	Item 4.31 of IEC 61810-7

Notes: 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

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.						
5 6 12 18 24	6.5 7.8 15.6 23.4 31.2	114 164 655 1473 2618	3.75 4.5 9.0 13.5 18.0	0.5 0.6 1.2 1.8 2.4	0.22	≤7	≤3
48	62.4	9216	36.0	4.8	0.25	≤7	≤3

Notes: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.
3.Unless otherwise stated, the rated coil voltage specified in coil parameter and its suitable polarity(if applicable) shall be used for all tests and its application to the relay.

Characteristics

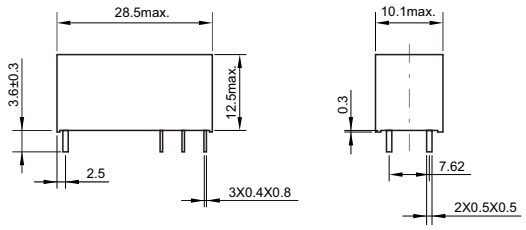
Insulation Resistance	1000MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Open Contacts Between Contact and Coil	 1000VAC 1min 5000VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	Functional: NO:98m/s^2 NC:49m/s^2 Destructive: 980m/s^2	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm 200m/s^2	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~85℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	8.2g	Item 4.7 of IEC 61810-7

Safety Approvals

Safety approval	UL & CUR
Load	8A/250VAC,30VDC

Dimensions

mm



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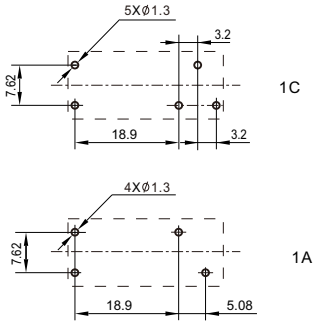

Mounting (Bottom view)

1A 1C

Wiring diagram
(Bottom view)

Remark: In case of no tolerance shown in outline dimension: outline dimension≤1mm,tolerance should be ±0.2mm ; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

Reference Data