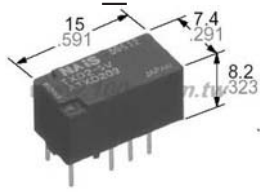




Relays & Solenoids

NAIS PCB Relays

Detailed product specifications are available on: us.100y.com.tw



FEATURES

- 1. Low profile type with height of 15.7 mm**
Slim, low profile type with dimensions of 28.8 (L) × 12.5 (W) × 15.7 (H) mm
1.134 (L) × .492 (W) × .618 (H) inch.
- 2. High insulation resistance** Superior insulation characteristics have been achieved by maintaining an insulation distance between coil and contacts of at least 10 mm for both creepage distance and clearances. Furthermore, anti-surge voltage is 10 kV and higher. (Supports European reinforced insulation requirement.)
- 3. Superior heat resistance**
Can be used in ambient temperatures up to 85°C 185°F for the class B and 105°C 221°F for the class F.

- 4. Low operating power**
Power saved with a nominal operating power of only 400 mW.
- 5. Conforms to the various safety standards:**
UL, C-UL, VDE approved.
- 6. Superior heat resistance and tracking resistance**
EN60335-1 GWT compliant (Tested by VDE) type available (Class B insulation type only, excluding TMP type)
- 7. TMP type also available.**

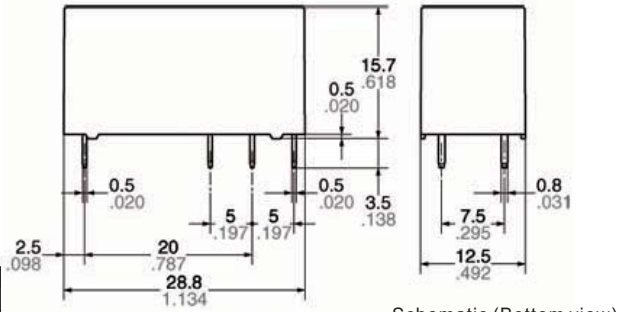
SPECIFICATIONS

Contact

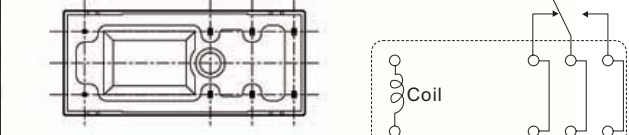
Initial contact resistance, max. (By voltage drop 6V DC 1A)	100mΩ	
Contact material	AgSnO ₂ type	
Rating (resistive load)	Nominal switching capacity	16A 250V AC
	Max. switching power	4,000VA
	Max. switching voltage	440V AC
	Max. switching current	16A
	Min. switching capacity	100mA, 5V DC
Expected life (min. Operations)	Mechanical (at 180 cpm)	1 Form A/1 Form C: 1 × 10 ⁷ 1 Form A (TMP type) 5 × 10 ⁶
	Electrical (at 20 cpm) (Rated load)	Form A/1 Form C: N.O.: 10 ⁵ , N.C.: 5 × 10 ⁴ 1 Form A (TMP type) 10 ⁵

Characteristics

Max. operating speed	20 cpm (at rated load)	
Initial insulation resistance*1	Min. 1,000 MΩ (at 500V DC)	
Initial breakdown voltage*2	Between open contacts	1,000 Vrms for 1 min.
	Between contacts and coil	5,000 Vrms for 1 min.
Initial surge voltage between contact and coil*3	10,000 V	
Operate time*4 (at nominal voltage)	Max. 15ms (at 20°C 68°F)	
Release time (without diode)*4 (at nominal voltage)	Max. 5ms (at 20°C 68°F)	
Temperature rise (20°C 68°C)	Max. 55°C with nominal coil voltage and at 16A contact carrying current (resistance method)	
Shock resistance	Functional*5	100 m/s ² {approx. 10 G}
	Destructive*6	1,000 m/s ² {approx. 100 G}
Unit weight	1 Form A/1 Form C: Approx. 12 g .42 oz 1 Form A (TMP type): Approx. 13 g .46 oz	



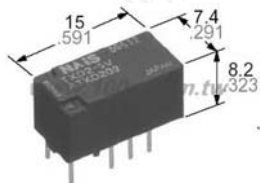
Schematic (Bottom view)



Coil

Nominal operating power	400mW
-------------------------	-------

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
46961	ALZ11B24W	NAIS	16A LOW PROFILE POWER RELAY	24V	LZ



FEATURES

- Slim size**
28 mm (L)×5 mm (W)×15 mm (H)
1.102 inch (L)×.197 inch (W)×.591 inch (H)
permits high density mounting
- Wide switching capacity:**
100 mA/12 V DC-6A/250 V AC

- High sensitivity: 170mW**
- High breakdown (4,000 V) and surge (6,000 V) voltage between contacts and coil**
- Clearance/creepage distance: 8/8 mm**
- 1 Form A/1 Form C contact.**

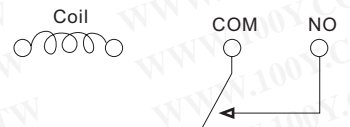
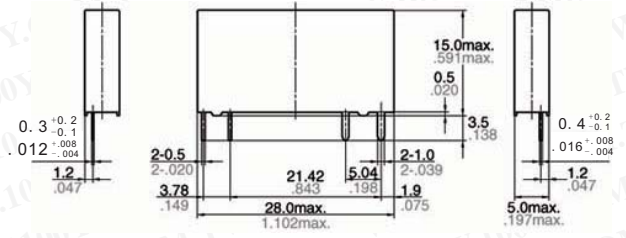
SPECIFICATIONS

Contacts

Contact material	AgSnO ₂ type	
Initial contact resistance, max. (By voltage drop 6 V DC 1 A)	100 mΩ	
Rating (resistive)	Nominal switching capacity	6 A 250 V AC
	Maximum switching power	1,500 VA
	Maximum switching voltage	250V AC
	Max. switching current	6 A (AC)
	Min. switching capacity (Reference value)*1	100 mA, 5 V DC
Expected life (min. Operations)	Mechanical (at 180 cpm)	5 × 10 ⁶
	Electrical (at 6 cpm) (at rated load)	N.O.: 5 × 10 ⁴ N.C.: 3 × 10 ⁴

Characteristics

Initial insulation resistance*1	Min. 1,000 MΩ at 500 V DC	
Initial breakdown voltage*2	Between open contacts	1,000 Vrms
	Between contacts and coil	4,000 Vrms
Surge voltage between contacts and coil*3	Min. 6,000 V (Initial)	
Operate time*4 (at nominal voltage)	Max. 8 ms (approx. 5 ms)	
Release time (without diode)*4 (at nominal voltage)	Max. 4 ms (approx. 2.5 ms)	
Temperature rise	Max. 30°C with nominal coil voltage across coil and at nominal switching capacity	
Shock resistance	Functional*5	1 Form C: Min. 49 m/s ² {5 G} 1 Form A: Min. 98 m/s ² {10 G}
	Destructive*6	Min. 980 m/s ² {100 G}
Vibration resistance	Functional*7	10 to 55 Hz at double amplitude of 1.0 mm/6 G
	Destructive	10 to 55 Hz at double amplitude of 1.5 mm/9 G
Conditions for operation, transport and storage*8 (Not freezing and condens-ing at low temperature)	Ambient temp.	-40°C to +85°C -40°F to +185°F
	Humidity	5 to 85% R.H.
Unit weight	Approx. 4 g .14 oz	



Schematic (Bottom view)

Coil (at 25°C 77°F, 50% R.H.)

Nominal operating power	170 mW (4.5 to 24 V DC) 217 mW (48 V DC)
-------------------------	---

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
46920	APE10024	NAIS	THE SLIM POWER RELAY	24V	PE

