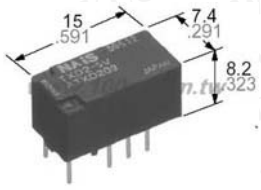
NAIS_PCB Relays

Characteristics

Release time*3 (at nominal voltage) (at 20°C)		Max. 5 ms (without diode)*4 Max. 20 ms (with diode)*4
Temperature rise, max. (at 70°C) (at nominal voltage)		60°C
Shock resistance	Functional*5	Min. 100 m/s² {10 G}
	Destructive*6	Min. 1,000 m/s² {100 G}
Vibration resistance	Functional*7	10 to 55 Hz at double amplitude of 1.5 mm
	Destructive	10 to 55 Hz at double amplitude of 1.5 mm
Conditions for operation, transport and storage*8 (Not freezing and condensing at low temperature)	Ambient temp.	–40°C to +70°C –40°F to +158°F
	Humidity	5 to 85% R.H.
Unit weight		For 1 Form C and 1 Form A types:approx. 19 g .67 oz For 2 Form C type: approx. 17 g .60 oz

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
47006	AHN110Y2	NAIS	SLIM AND COMPACT RELAY FOR WIDER APPLICATIONS	220/240V AC	HN



FEATURES

1. 2 Form A slim type

24(L) × 12(W) × 25(H) mm. 945(L)×.472(W)×.984(H) inch

2. 3A type and 5A TV type

3A type: Contact reliability and break performance best suited for protecting and switching speakers.

5A TV type: Tough against inrush current and optimal for turning on and off the power supply. Rated TV-4 (UL/CSA).

3. High insulation resistance

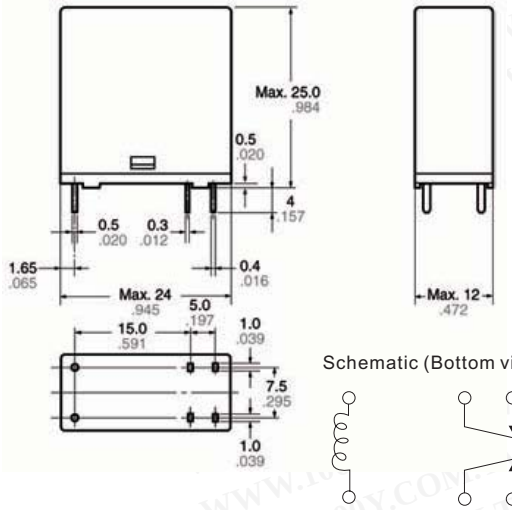
• Creepage distance and clearancesbetween contact and coil: Min. 6 mm .236 inch (In compliance with IEC65)

• Surge withstand voltage between contact and coil: 10,000 V or more.

4. High noise immunity realized by the card separation structure between contact and coil

5. Conforms to the various safety standards

• UL/CSA, VDE, TÜV, SEMKO, SEV approved



SPECIFICATIONS

Contact

Type		5A TV rated
Arrangement		2 Form A
Initial contact resistance, max. (By voltage drop 6 V DC 1 A)		Max. 100 mΩ
Contact material		$AgSnO_2$ type
Rating (resistive load)	Nominal switching capacity	5 A 277 V AC
	Max. switching power	1,385 V A
	Max. switching voltage	277 V AC
	Max. switching current	5 A (AC)
	Min. switching capacity*1	100 mA, 5 V DC
Expected life (min. Operations)	Mechanical (at 180 cpm)	10^6
	Electrical (at 20 cpm) (at rated load)	5×10^4 (ON: OFF=1.5s: 1.5s)

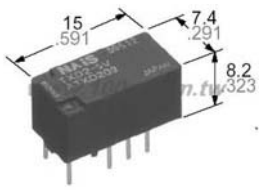
Characteristics

Type		5A TV rated
Max. operating speed		20 cpm
Initial insulation resistance*1		Min. 1,000 MΩ (at 500 V DC)
Initial *2 breakdown voltage	Between contact sets	1,000 Vrms for 1 min.
	Between open contacts	1,000 Vrms for 1 min.
	Between contact and coil	4,000 Vrms for 1 min.
Surge voltage between contact and coil*3		Min. 10,000 V
Operate time*4 (at nominal voltage)		Max. 15ms (at 20°C 68°F)
Release time (with diode)*4 (at nominal voltage)		Max. 15ms (at 20°C 68°F)
Temperature rise (at 70°C)		Max. 45°C with nominal coil voltage and at 5 A contact carrying current
Shock resistance	Functional*5	Min. 200 m/s²{approx. 20 G}
	Destructive*6	Min. 1,000 m/s²{approx. 100 G}
Vibration resistance	Functional*7	10 to 55Hz at double amplitude of 1.5mm
	Destructive	10 to 55Hz at double amplitude of 1.5mm
Unit weight		Approx. 13 g .46 oz

Coil

Nominal operating power	530 mW

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
46965	ALA2PF12	NAIS	2 FORM A SLIM POWER RELAY	12V	LA



FEATURES

1. Slim type: Width 7 mm .276 inch.

20.3(L)×7.0(W)×15.0(H) mm .799(L)×.276(W)×.591(H) inch

2. Perfect for small load switching of home appliances

10^5 switching operations possible with a 3A 250V AC resistive load.

3. Low operating power

Compact size, nominal operating power as low as 200mW

4. High shock resistance

The relay withstands a functional shock resistance of 300m/s² [approx. 30 G more]

5. High insulation resistance

• Creepage distance and clearances between contact and coil:Min. 6 mm .236 inch (In compliance with IEC65)

• Surge withstand voltage between contact and coil: 10,000 V or more.

6. UL/CSA, VDE, TÜV approved.

TYPICAL APPLICATIONS

• Air conditioner
• Refrigerator
• Hot water units
• Microwave ovens
• Fan heaters