



Relays & Solenoids

NAIS_PCB Relays

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



FEATURES

- **Compact and high-capacity**
1 Form C: 15A, 2 Form C: 10A high capacity controlled
- **Wide line-up**
With LED indication type, built-in diode and CR for surge suppression type available
- **Cadmium-free contacts**
- **Conforms to the various safety standards** UL/C-UL, TÜV, approved

SPECIFICATIONS

TYPICAL APPLICATIONS

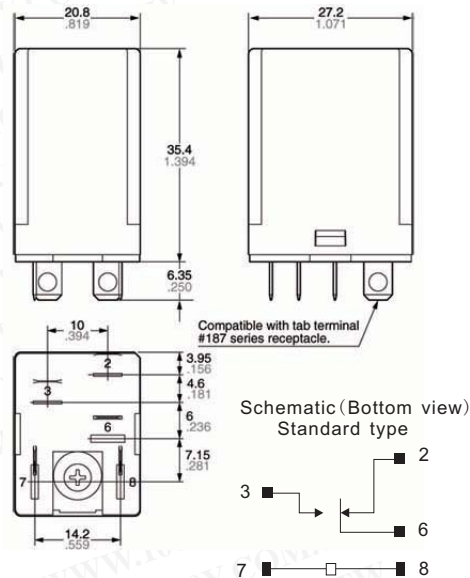
- Control panels
- Power supply units
- Molding machines
- Machine tools
- Welding equipment
- Agricultural equipment

- Office equipment
- Vending machines
- Communications equipment
- Amusement machines

		Contacts
Initial contact resistance, max. (By voltage drop 6 V DC 1 A)		50mΩ
Contact material		AgSnO ₂ type
Rating (resistive load)	Nominal switching capacity	1 Form C: 15A 125V AC 2 Form C: 10A 125V AC
	Min. switching capacity (Reference value)*1	100 mA, 5 V DC
Expected life (min. Operations)	Mechanical (at 180 cpm)	AC type: 5×10 ⁷ DC type: 10 ⁸
	Electrical (resistive load)(AC load)	1 Form C: 15A 125V AC (cosφ=1), 2×10 ⁷ 2 Form C: 10A 125V AC (cosφ=1), 5×10 ⁷

Characteristics

Max. operating speed		20 cpm (at max. Rating)
Initial insulation resistance*1		Min. 100 MΩ at 500 V DC
Initial breakdown voltage*2	Between open contacts	1,000 Vrms for 1 min.
	Between contact sets	2,000 Vrms for 1 min.
	Between contact and coil	2,000 Vrms for 1 min.
Operate time*3 (at 20°C)(at nominal voltage)		Max. 25 ms*4
Release time (without diode)*3 (at 20°C)(at nominal voltage)		Max. 25 ms*4
Temperature rise, max. (at nominal voltage, nominal rating)		80°C
Shock resistance	Functional*5	Min. 196 m/s ² (20 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
	Destructive	10 to 55 Hz at double amplitude of 2.0 mm
Unit weight		Approx. 35g 1.23 oz



Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
47013	AHK110Y2	NAIS	COMPACT AND HIGH CAPACITY GENERAL PURPOSE POWER RELAYS	220/240V AC	HK



FEATURES

- 1. Slim and compact size**
20% smaller (width and height) than existing model* (with the condition of screw terminal socket for DIN rail)* Compared with our HC/HJ relay.
- 2. High-capacity and high reliability**
Max. switching current: 16 A (for 1 Form C type at AC load) Uses gold-flashed contacts for highly reliable contact (for 2 Form C type).
- 3. Environmentally friendly**
Cadmium-free contacts and lead-free solder are used.
- 4. Slim screw terminal socket and PC board terminal socket**
Utilizes relay-securing hook for easy relay removal. One-touch relay removal possible. Terminal sockets with finger protect function available.

SPECIFICATIONS

Contacts

Contact arrangement		1 Form C
Initial contact resistance, max. (By voltage drop 6 V DC 1 A)		100mΩ
Contact material		AgSnO ₂ type
Rating (resistive load)	Nominal switching capacity	10A 250V AC, 10A 30V DC
	Max. switching power	4,000 VA, 300W
	Max. switching voltage	250V AC, 30V DC
	Max. switching current	16 A (at AC load), 10 A (at DC load)
	Min. switching capability (Reference value)*9	5V 100mA DC
Expected life (min. Operations)	Mechanical (at 300 cpm)	AC: 10 ⁷ DC: 2×10 ⁷
	Electrical (at rated load)	10 ⁵ (at 20 cpm)

Characteristics

Max. operating speed		1 Form C and 2 Form C types: 20 cpm (at max. Rating) 1 Form A type: 10 cpm (at max. Rating)
Initial insulation resistance*1		Min. 1,000 MΩ at 500 V DC
Initial breakdown voltage*2	Between open contacts	1,000 Vrms for 1 min.
	Between contact sets	3,000 Vrms for 1 min. (2 Form C type only)
	Between contact and coil	5,000 Vrms for 1 min.
Operate time*3 (at nominal voltage) (at 20°C)		Max. 15 ms*4

5. Full lineup

We added a direct mount type that can be built into devices.

TYPICAL APPLICATIONS

- Control panels
- Power supply units
- Molding machines
- Machine tools
- Welding equipment
- Agricultural equipment
- Office equipment
- Vending machines
- Communications equipment
- Amusement machines, etc.

