



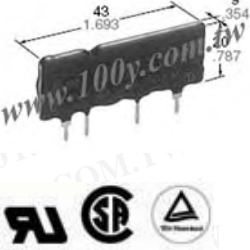
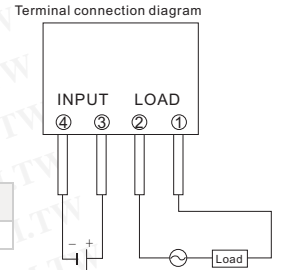
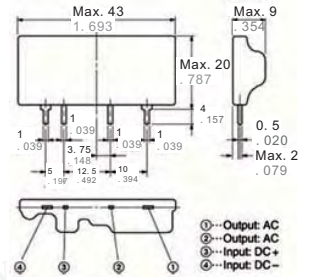
Relays & Solenoids

Plug-In Interface DC To AC Solid State Relays

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

Characteristics (at 20°C 68°F, Input voltage ripple: less than 1%)

Item	Zero-cross type		Remarks
	Standard type	Reinforced type	
Operate time, max.	(1/2 cycle of voltage sine wave) + 1 ms		
Release time, max.	(1/2 cycle of voltage sine wave) + 1 ms		
Insulation resistance, min.	10 ⁹ Ω between input and output		
Breakdown voltage	1,500 V AC between input and output	4,000 V AC between input and output	For 1 minute
Vibration resistance	Functional	10 to 55 Hz at double amplitude of 3 mm	10 minutes for X, Y, Z axes
	Destructive	10 to 55 Hz at double amplitude of 3 mm	1 hour for X, Y, Z axes
Shock resistance	Functional	Min. 980 m/s ² {100 G}	4 times for X, Y, Z axes
	Destructive	Min. 980 m/s ² {100 G}	5 times for X, Y, Z axes
Ambient temperature	-20°C to +80°C -4°F to +176°F		
Storage temperature	-25°C to +85°C -13°F to +185°F		
Operational method	Zero-cross Turn-ON	Zero-cross Turn-OFF	

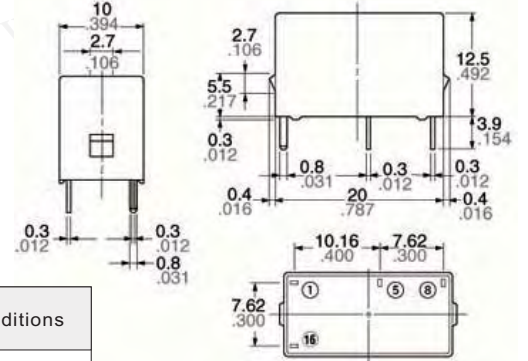


Part No.	Product No.	Manufacturer	Description	Vin	Irms	Vrms
47557	AQB2A1-ZT3/6VDC	NAIS	NAIS_AQ-B SOLID STATE RELAY	3/6VDC	2A	75 to 125 V AC

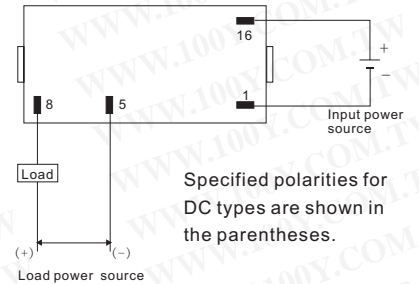
FEATURES

- Compact DIL type: 20 mm (length) × 10 mm (width) × 12.8 mm (height) (.787×.394×.504 inch)
- Excellent in noise resistance
- Snubber circuit integrated
- High dielectric strength: 2,500 V between input and output
- Reverse polarity type available

- AC output
 ⑤-Output: AC
 ⑧-Output: AC
 ⑩-Input: DC+
 ①-Input: DC-
 Case color: black
- DC output
 ⑤-Output: DC-
 ⑧-Output: DC+
 ⑩-Input: DC+
 ①-Input: DC-
 Case color: Red



Schematic



Specified polarities for DC types are shown in the parentheses.

Output module

Item	Type	AC output	DC output	Conditions
		Zero-cross		
Operate time, max.		(1/2 cycle of voltage sine wave)+1ms	0.5 ms	
Release time, max.		(1/2 cycle of voltage sine wave)+1ms	1 ms	
Insulation resistance, min.		10 ⁹ Ω between input and output		at 500 V DC
Breakdown voltage		2,500 Vrms between input and output		For 1 minute
Vibration resistance	Functional	10 to 55Hz double amplitude of 3 mm		10 minutes for X, Y, Z, axis
	Destructive	10 to 55Hz double amplitude of 3 mm		1 hour for X, Y, Z, axis
Shock resistance	Functional	Min. 980 m/s ² {100 G}		4 time each for X, Y, Z axis
	Destructive	Min. 980 m/s ² {100 G}		5 time each for X, Y, Z axis
Ambient temperature		-30°C to +80°C -22°F to +176°F		
Storage temperature		-30°C to +100°C -22°F to +212°F		
Operational method		Zero-cross (Turn-ON and Turn-OFF)	—	

Part No.	Product No.	Manufacturer	Description	Irms	Vrms
47555	AQC1A1 - ZT5 V DC	NAIS	NAIS_AQ-C SOLID STATE RELAY	0.1 to 25 mA	75 to 125 V AC

FEATURES

1. Conforms to European safety standards (VDE0110) dielectric distance between input and output
 - Creepage distance: Min. 3.0 mm
 - Clearances distance: Min. 2.5 mm
2. The small-sized vertical type 28 mm (L)×5 mm (W)×15 mm (H) 1.063 inch (L)×.197 inch (W)×.591 inch permits high density mounting to PC board
3. High dielectric strength: 2,500V AC (between input and output)

4. Two load types available:

- DC output type (3A)
- AC output type (1A)

5. Zero-cross type are available (AC type)

The zero-cross type generates minimal noise

6. Snubber circuit integrated (AC type)

The snubber circuit is integrated to prevent malfunction caused by the rapid rise of voltage on the output side, such as inductive load and current.

TYPICAL APPLICATIONS

- Interface relays for programmable controllers
- Industrial equipment
- Timers and counters
- Air conditioners



mm inch

