



Relays & Solenoids

Plug-In Interface DC To AC Solid State Relays

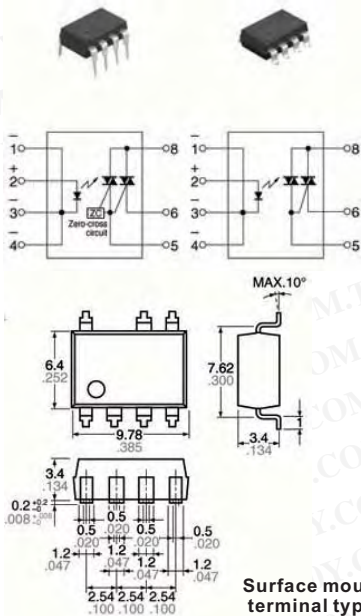
Detailed product specifications are available on: us.100y.com.tw



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

Item	Zero-cross type	Remarks
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	Using 500 V DC megger
Breakdown voltage	3,000 Vrms between input and output	Initial for 1 min.
Vibration resistance	10 to 55 Hz double amplitude of 0.75 mm	X, Y, Z axes
Shock resistance	1,000 m/s ²	X, Y, Z axes
Ambient temperature	-30°C to +80°C -22°F to +176°F	Non-condensing at low temperatures
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	Vin	Irms	Vrms
47532	AQG12105	NAIS	NAIS_AQ-G SOLID STATE RELAY	5 V DC	1A	75 to 264 V AC



FEATURES

1. Compact DIP type SSR that's ideal for AC load control
2. Supports 0.3 A, 0.6 A, 0.9 A and 1.2 A ON-state RMS currents.
3. The 1.2 A type saves space with a DIP 8-pin package. (Competitor only provides a 16-pin type.)

4. Handles both 100 and 200 V AC loads
This relay handles both voltages in a single product. It is not necessary for users that use both types to manage separate part numbers.
5. High dielectric strength: 5,000 V AC (between input and output)
6. Two types available: Zero-cross type and Random type

TYPICAL APPLICATIONS

1. Home appliances (air conditioners, microwave ovens, washing machines, personal hygiene systems, refrigerators, fan heaters, inductive heating cooker, and water heaters, etc.)
2. Industrial equipment market.



Part No.	Product No.	Manufacturer	Description	Irms	Vrms
47508	AQH0213	NAIS	AQ-H SOLID STATE RELAY	0.3A	600V
47523	AQH0223	NAIS	NAIS_AQ-H SOLID STATE RELAY	0.3A	600V
47511	AQH1213	NAIS	AQ-H SOLID STATE RELAY	0.6A	600V
47525	AQH1223	NAIS	NAIS_AQ-H SOLID STATE RELAY	0.6A	600V
47512	AQH2213	NAIS	AQ-H SOLID STATE RELAY	0.9A	600V
47527	AQH2223	NAIS	NAIS_AQ-H SOLID STATE RELAY	0.9A	600V
47513	AQH3213	NAIS	NAIS_AQ-H SOLID STATE RELAY	1.2A	600V
47530	AQH3223	NAIS	NAIS_AQ-H SOLID STATE RELAY	1.2A	600V

GENERAL CHARACTERISTICS

DESCRIPTION	TYPES	ESR200		ESR210	
		Z	R	Z	R
Zero-on or Random-on					
Max. Turn-on Time		8.3ms	100µs	8.3ms	100µs
Max. Turn-off Time		8.3ms			
Insulation Resistance		DC 500V 10 ⁹ ΩMin. (Between Input & Output, Input / Output & Case)			
Dielectric Strength		2.5K VAC (Between Input & Output)			
Capacitance		10pF Max. (Between Input & Output)			
Operating Temperature		-20°C~+85°C			
Storage Temperature		-40°C~+100°C			

FEATURES

- PCB Mount; Single in Line Package.
- Optically Isolated.
- Input LED Indicator.
- High dv/dt and High Blocking Voltage.
- Low Input power Consumption, TTL and CMOS Compatible.
- Zero Voltage Turn-on, Zero Current Turn-off (minizes EMI/RFI)
- High Surge Rating Allows Lamp and Motor Load Switching
- Built-in Snubber Network

