

Description

- Phase Angle Solid State Relay PSA-Series: ON/OFF device for single-phase electrical circuits in speed control or acceleration type applications.
- Suitable for load types such as heater and light bulb.
- Input: 4-20 mA or Resistance 0-500k Ω
- Current Ratings: 24A (Input 0-500k Ω) 40A(Input 4-20mA).
- Suitable for applications that require accurate control, such as controlling the heat of a heater or an infrared bulb.

Operation

PSA-Series is a solid-state relay that operates as Phase Angle Control, controlling the phase angle of the sine wave. This causes the load power to vary according to the input signal. The device is suitable for high-accuracy applications. For PSA-02N1-25, it can be connected to the input using a volume POT.

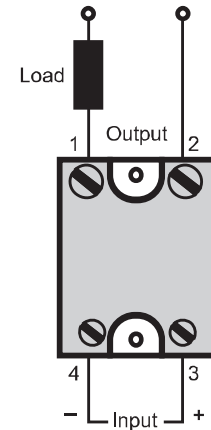
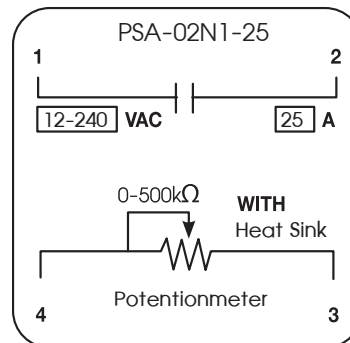
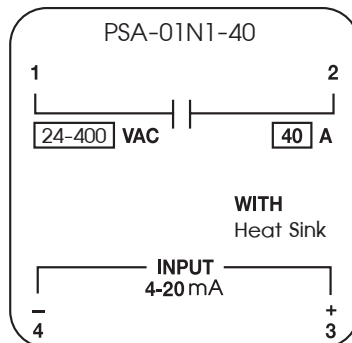
Because this device operate all the time and received high current PSA-SERIES need install with Heat Sink for cooling.

Specification

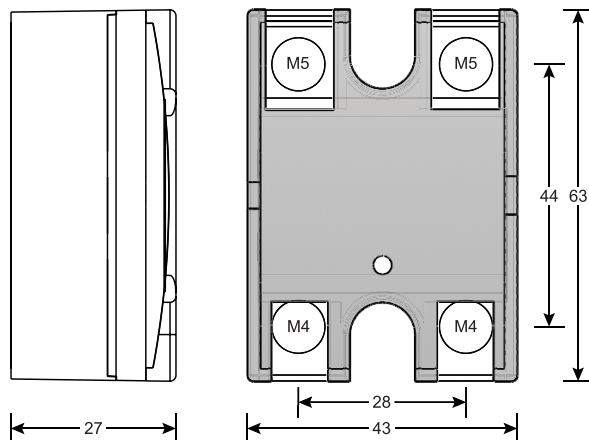


Model		PSA-01N1-40	PSA-02N1-25	PSA-A1
TYPE		Phase Angle Control		Amplifier
Power Supply		-	-	220VAC
Input	Show	LED (Red Show Input Control)		
	Type	Control Current 4-20mA	Resistance 0-500k Ω	Current 4-20mA
	Input Impedance	0.25k Ω	0.50k Ω	0.25k Ω
Output	Switching Voltage	24-400 VAC	12-240VAC	-
	Peak Voltage	400VAC	400VAC	-
	Switching Current	40A	25A	4-20mA (Max 3 Output)
	Frequency	Operating Frequency Range 47 to 100 Hz		
Ambient Operation	Temperature	-10 °C to 60 °C		
	Humidity	85 % RH Non-Condensing		
Ambient Storage	Temperature	-20 °C to 80 °C		
	Humidity	85 % RH Non-Condensing		
Protection Degree		IP40		
Installation		Screw with Heat Sink		DIN RAIL Mounting
Material		ABS-V0		
Size (mm.)		63 x 43 x 27	63 x 43 x 27	30 x 90 x 58
Weight (kg.)		100	100	160

Wiring Diagram



Dimension



Unit: mm.

Output Signal

PSA-01N1-40

Input 100% (20 mA)



Input 50% (12 mA)



Input 25% (8 mA)



PSA-02N1-25

Input 100% (500 kΩ)



Input 50% (250 kΩ)



Input 25% (125 kΩ)



Accessory

PSA-A1



Amplifier model PSA-A1 receives an input signal of 4-20 mA (1 input) and can be connected to a maximum of 3 PSA-01N1-40 devices.

