## **PS-SERIES**

#### SINGLE PHASE SOLID STATE RELAY

# PRIMUS

### DESCRIPTION

- Single phase circuit breaker, 12-400VAC
- Can be used with load types.
  - ZERO CROSS (Resistive Load): Heater, Light bulb
  - RANDOM (Inductive Load): Motor
- Input voltage: 4-30VDC and 90-240VAC
- Current: 25A, 40A, 50A, 75A
- Suitable for ON/OFF jobs often.
  - There is no contact, so do There is no spark in the contactor.
  - long service life

## **OPERATION**

PS-Series (Single Phase Solid State Relay): A single phase solid state relay. When input signal comes along in the range of voltage then output will be activated

The interior is composed of Semiconductor No contact with the Arc is suitable for work with ON/OFF often. Available in both Resistive Load, such as Heater, Light bulb and Inductive Load, such as Motor, etc. Can be used to replace the Magnetic Contactor, which provides long service life

Due to frequent ON/OFF contact and high current Therefore, the installation of Solid State Relay must be installed with Heat Sink for cooling

### TECHNICAL SPECIFICATION











Model		PS-01N-25	PS-01N-40	PS-01N-50	PS-01N-75	
TYPE		Zero Cross (Resistive Load)				
		LED (Red Show Input Control )				
Input		Control Voltage 4-30VDC				
		Input Impedance > 1k $\Omega$				
		Switching Voltage 12 to 400 VAC ( 1-Phase)				
Output		Peak Voltage 400V				
		Switching Current				
		25A	40A	50A	75A	
		Max Drop Voltage 1.4Vrms				
		Maximum Leakage Current 15 mA rms				
		Power Factor 0 up to 1				
		Operating Frequency Range 10 up to 440 Hz				
		$1^2t = 340A^2s$	$I^2t = 880A^2s$	$1^2t = 680A^2s$	$1^2t = 1760A^2s$	
Ambient Operation	Temperature	-10 °C to 60 °C				
Ambieni Operation	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				
Material		ABS-V0				
Size		45.2 x 58.8 x 21.36mm.				
Weight		90 g.				



## TECHNICAL SPECIFICATION (CONTINUE)

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Model		PS-02-25	PS-02-40	PS-02-50	PS-02-75		
TYPE		Zero Cross (Resistive Load)					
Input		LED (Red Show Input Control )					
		Control Voltage 90-240VAC					
		Input Impedance > 150k $\Omega$					
		Switching Voltage 12 to 400 VAC ( 1-Phase)					
			Peak Voltage 400V				
		Switching Current					
Output	Outroit		40A	50A	75A		
Culpui		Max Drop Voltage 1.4Vrms					
		Maximum Leakage Current 15 mA rms					
		Operating Frequency Range 10 up to 440 Hz					
			$1^2t = 880A^2s$	$1^2t = 680A^2s$	$I^2t = 1760A^2s$		
Ambient Operation	Temperature	-10 °C to 60 °C					
	Humidity	85 % RH Non-Condensing					
	Temperature	-20 °C to 80 °C					
Ambient Storage	Humidity	85 % RH Non-Condensing					
Protection Degree		IP40					
Installation		Screw with Heat Sink					
Material		ABS-V0					
Size		45.2 x 58.8 x 21.36mm.					
Weight		90 g.					

# **PS-SERIES**

## SINGLE PHASE SOLID STATE RELAY



## TECHNICAL SPECIFICATION (CONTINUE)

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Model		PS-03N-25	PS-03N-40	PS-03N-50	PS-03N-75	
ТҮРЕ		RANDOM (Inductive Load)				
Input		LED (Red Show Input Control)				
		Control Voltage 4-30VDC				
		Input Impedance > $1 k\Omega$				
		Switching Voltage 12 to 400 VAC (1-Phase)				
		Peak Voltage 400V				
		Switching Current				
Output		25A	40A	50A	75A	
- G 4. P 4.		Max Drop Voltage 1.4Vrms				
		Maximum Leakage Current 15 mA rms				
		Operating Frequency Range 10 up to 440 Hz				
		$1^2t = 340A^2s$	$1^2t = 880A^2s$	$1^2t = 680A^2s$	$1^2t = 1760A^2s$	
Ambient Operation Tempe	rature	-10 °C to 60 °C				
Humidi	ity	85 % RH Non-Condensing				
Ambient Storage	rature	-20 °C to 80 °C				
Ambient storage Humidi	ity	85 % RH Non-Condensing				
Protection Degree		IP40				
Installation		Screw with Heat Sink				
Material		ABS-V0				
Size		45.2 x 58.8 x 21.36mm.				
Weight		90 g.				

## SINGLE PHASE SOLID STATE RELAY

## TECHNICAL SPECIFICATION (CONTINUE)

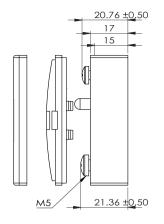
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Model		PS-04-25	PS-04-40	PS-04-50	PS-04-75		
ТҮРЕ		RANDOM (Inductive Load)					
Input		LED (Red Show Input Control)					
		Control Voltage 90-240VAC					
			Input Impedance > 150k $\Omega$				
			Switching Voltage 12 to 400 VAC ( 1-Phase)				
		Peak Voltage 400V					
		Switching Current					
Output		25A	40A	50A	75A		
		Max Drop Voltage 1.4Vrms					
		Maximum Leakage Current 15 mA rms					
		Operating Frequency Range 10 up to 440 Hz $I^2t = 340A^2s$ $I^2t = 880A^2s$ $I^2t = 680A^2s$ $I^2t = 1760A^2s$					
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Ambient Operation	Temperature	-10 °C to 60 °C					
Ambient Operation	Humidity	85 % RH Non-Condensing					
	Temperature	-20 °C to 80 °C					
Ambient Storage	Humidity	85 % RH Non-Condensing					
Protection Degree		IP40					
Installation		Screw with Heat Sink					
Material		ABS-V0					
Size		45.2 x 58.8 x 21.36mm.					
Weight		90 g.					

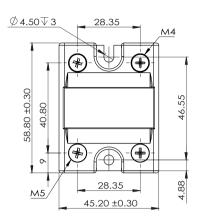
## **PS-SERIES**

### SINGLE PHASE SOLID STATE RELAY



## DIMENSION

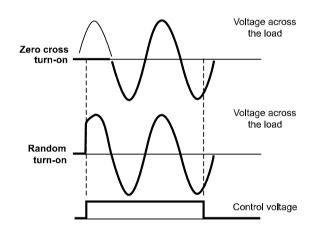


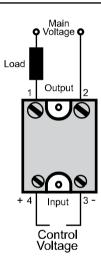






### WIRING DIAGRAM





## **ACCESSORIES**

