

# 60/80 Amp AC Output Solid State Relay W/ Integrated Heatsink

PCS47



**CA** US E93379

## INPUT PARAMETERS (Ta = 25°C)

Control Voltage Range	DC Input Max 35 VDC	4 VDC - 32 VDC
	250 VAC Input	90 VAC - 250 VAC
Must Turn-On Voltage	DC Input	3.5 VDC
	250 VAC Input	90 VAC
Must Turn-Off Voltage	DC Input	2 VDC
	250 VAC Input	10 VAC
Input Current	<20 mA	

## CHARACTERISTICS

Dielectric Strength	2,500 VAC, 1 minute, Input/Output
Insulation Resistance	500 MΩ at 500 VDC, 50% RH
Operating Temperature	-30°C to 80°C
Storage Temperature	-30°C to 100°C
Relative Humidity	45 - 85% RH
Weight	940g

## FEATURES

- 3-32 VDC or 90-250 VAC Control
- 40-440 VAC Load Voltage
- Zero Cross or Random Switching
- Built In RC Snubber Output
- Triac Output Design
- Built In Finger Guard Cover
- LED Indicator
- RoHS Compliant
- Integrated Heatsink
- 35mm Din Rail or Panel Mount

## OUTPUT PARAMETERS (Ta = 25°C)

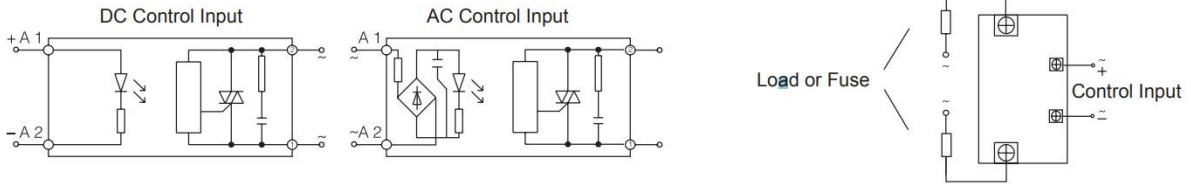
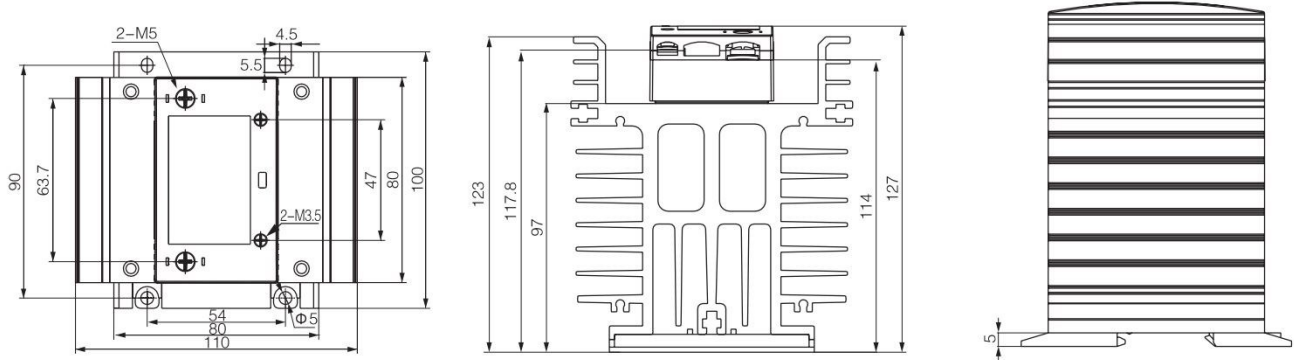
Rated Load Current	60 A	80 A
Load Voltage Range	380 A	40 VAC - 480 VAC
Max. Transient Overvoltage	380 A	900 Vpk
Rated Load Current	60 A	80 A
Max. Surge Current (10 ms)	650 Apk	900 Apk
Max I <sup>2</sup> t for Fusing (10ms, A <sup>2</sup> s)	2,100	4,050
Min. Load Current	100 mA	
Max. Off-state Leakage Current	10 mA	
Max. On-state Voltage Drop	1.6 Vrms	
Max. Turn-on Time	DC Input (Zero)	1/2 Cycle + 1 ms
	DC Input (Random)	1 ms
	250 VAC Input	12 ms
Max. Turn-off Time	DC Input	1/2 Cycle + 1 ms
	250 VAC Input	40 ms
Frequency Range	47 H - 63 Hz	
Min. Power Factor	0.5	
Min. Off-state dv/dt	500 V/μs	

## ORDERING INFORMATION

Example:	PCS45	-250A	-380A	-20	Z	L
Model:	PCS45 (SSR with Built In Heat Sink)					
Control Voltage:	D: 3 - 32 VDC; 250A: 90 - 250 VAC					
Load Voltage:	380A: 40 - 440 VAC					
Load Current:	60: 60 Amp; 80: 80 Amp					
Switching Type:	Z: Zero Crossing, R: Random Turn-On					
Status LED:	L: LED Indicator					
Terminal Type:	Nil: Screw Terminal					

Box Quantity: XXX; Inner Box YYY

# Dimensions



Dimensions in mm

# Derating Curves

