

10/25/40/60/80 Amp AC Output Three Phase Solid State Relay

PCS35



CULUS E93379

INPUT PARAMETERS (Ta = 25°C)

Control Voltage Range	DC Input Max 35 VDC	4 VDC - 32 VDC
	VAC Input	90 VAC - 250 VAC
Must Turn-On Voltage	DC Input	4 VDC
	VAC Input	90 VAC
Must Turn-Off Voltage	DC Input	1 VDC
	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 (Heatsink may be required)
Storage Temperature	-30°C to 80°C
Relative Humidity	45 - 85%
Weight	365(10A)-500(80A)g

FEATURES

- Three Phase Output SSR
- 4-32 VDC or 90-250 VAC Control
- 440 VAC Load Voltage Option
- Zero Cross or Random Switching
- Built In RC Snubber Output
- Triac Output Design
- Built In Finger Guard Cover
- LED Indicator
- RoHS Compliant

CROSS REFERENCES

Carlo Gavazzi: RZ3A
Example: RZ3A40D75 Crosses to PCS35-D-380A-80ZL
Example: RZ3A40D25 Crosses to PCS35-D-380A-25ZL

OUTPUT PARAMETERS (Ta = 25°C)

Rated Load Current	10 A	25 A	40 A	60 A	80 A
Load Voltage Range	220 A	24 VAC - 240 VAC			
	380 A	24 VAC - 440 VAC			
Max. Transient Overvoltage	220 A	900 Vpk			
	380 A				
Rated Load Current	10 A	25 A	40 A	60 A	80 A
Max. Surge Current (10 ms)	120 A	300 A	410 A	780 A	1,000 A
Max I ² t for Fusing (10ms, A ² s)	85	450	840	1,800	3,200
Min. Load Current	100 mA				
Max. Off-state Leakage Current	7 mA				
Max. On-state Voltage Drop	1.5 Vrms				
Max. Turn-on Time	DC Input (Zero)	1/2 Cycle + 1 ms			
	DC Input (Random)	10 ms			
	250 VAC Input	10 ms			
Max. Turn-off Time	DC Input	1/2 Cycle + 1 ms			
	250 VAC Input	10 ms			
Frequency Range	47 H - 63 Hz				
Min. Power Factor	0.5				
Min. Off-state dv/dt	500 V/μs				

ORDERING INFORMATION

Example:	PCS35	-250A	-380A	-25	Z	L
Model:	PCS35 (Three Phase)					
Control Voltage:	D: 4 - 32 VDC; 250A: 90 - 250 VAC					
Load Voltage:	220A: 24 - 240 VAC; 380A: 24 - 440 VAC					
Load Current:	10: 10 Amp; 25: 25 Amp; 40: 40 Amp; 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

