

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

PCS35



FEATURES

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

INPUT PARAMETERS (Ta = 25°C) us E318155

| | | |
|-----------------------|------------------------|------------------|
| 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 | |

CROSS REFERENCES

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|---|
| 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 | | | | |

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 |

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 | | | | | |
| Status LED: | L: LED Indicator | | | | | |
| Terminal Type: | Nil: Screw Terminal | | | | | |

Box Quantity: XXX; Inner Box YYY

Dimensions

