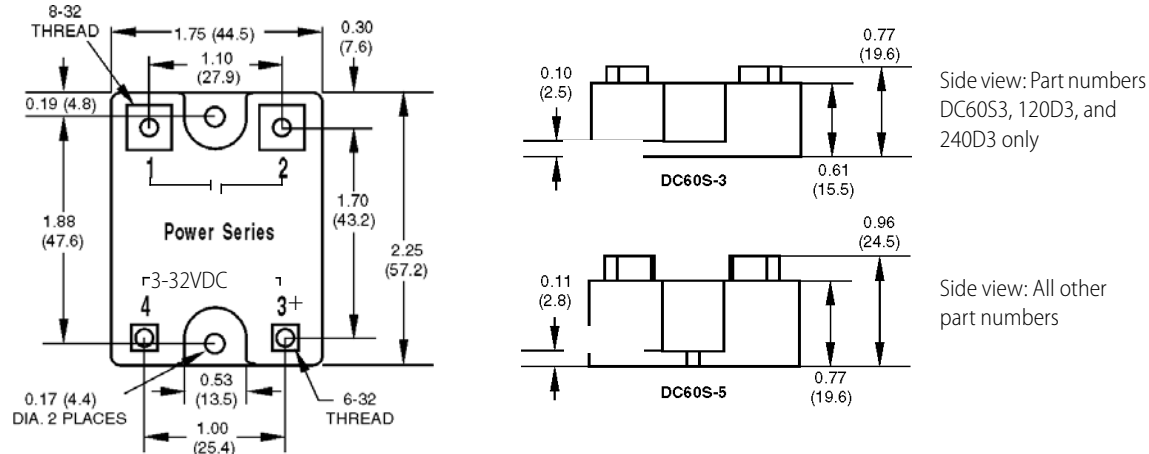


480/575 Volt (cont)

Dimensional Drawings

NOTE: All dimensions are nominal. We do not recommend mounting the terminal side of the SSR to a flat PCB (printed circuit board) or other flat surface, because there may be some variation in terminal height from one terminal to another and from one SSR to another.



Z SERIES SPECIFICATIONS

AC Power: 120/240 Volt

The Z Series employs a unique heat transfer system that makes it possible for Opto 22 to deliver a low-cost, 10-amp, solid-state relay in an all-plastic case. The push-on tool-free quick-connect

terminals make the Z Series ideal for high-volume OEM applications. Operating temperature is -40°C to 100°C . (Ambient temperature will affect the current rating.)

	Z120D10	Z240D10
Nominal AC Line Voltage Nominal	120	240
Current Rating (Amps)	10*	10*
1 cycle Surge (Amps) Peak	110	110
Nominal Signal Input Resistance (Ohms)	1000	1000
Signal Pick-up Voltage	3VDC (32V allowed)	3VDC (32V allowed)
Signal Drop-out Voltage	1 VDC	1 VDC
Peak Repetitive Voltage Maximum	600	600
Maximum Output Voltage Drop	1.6 volts	1.6 volts
Off-State Leakage (mA) Maximum**	6 mA	12 mA
Operating Voltage Range (Volts AC)	12–140	24–280
I^2t Rating $t=8.3$ (ms)	50	50
Isolation Voltage	4,000 V_{RMS}	4,000 V_{RMS}
θ_{jc}^{***} ($^{\circ}\text{C}/\text{Watt}$) Dissipation (Watts/Amp)	4	4

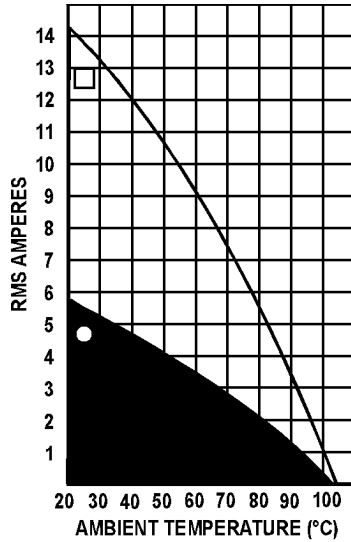
Notes: * Ambient temperature will affect the current rating. For details, see the Thermal Ratings chart.
 ** Operating Frequency: 25 to 65 Hz (operates at 400 Hz with 6 times the offstate leakage).
 *** θ_{jc} = Thermal resistance from internal junction to base. Maximum internal junction temperature is 110°C .

NOTE: Part number Z240D10-17 is a replacement part only. Its specifications are identical to Z240D10.

AC Power: 120/240 Volt (cont.)

Thermal Ratings

Ambient temperature will affect the current rating.



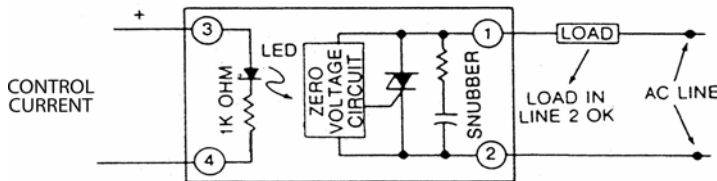
- FREE AIR
- MOUNTED ON A HEATSINK WITH 2°C/WATT RATING

Surge Current Data

Time Second	Time* (Cycles)	Peak Amps
0.017	1	110
0.050	3	85
0.100	6	70
0.200	12	60
0.500	30	50
1	60	40
2	120	33
3	180	32
4	240	31
5	300	30
10	600	28

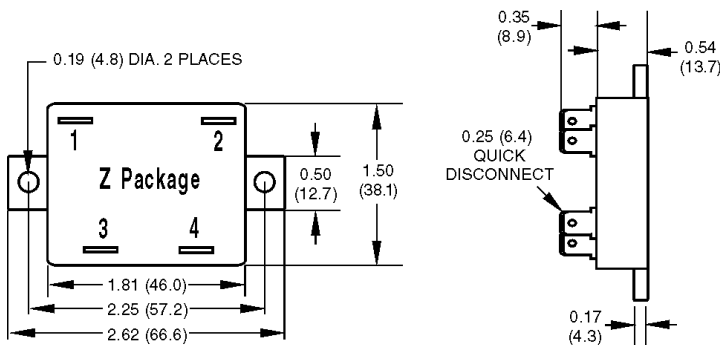
Note: *60 Hz

Connection Diagram



Control Current varies with control voltage. For details, see "Control Current Calculation" on page 17.

Dimensional Drawings



NOTE: All dimensions are nominal. We do not recommend mounting the terminal side of the SSR to a flat PCB (printed circuit board) or other flat surface, because there may be some variation in terminal height or alignment from one terminal to another and from one SSR to another.