

# Surge Protection

## Engineering Specification Submittal

**Model:** ZoneMaster 200 Series

**Order Code:** 11303

### Applicable Standards

NEMA LSI - 1992  
UL 1449 3rd Edition

ANSI/IEEE C62.41  
ANSI/IEEE C62.45

### General Electrical

SPD Category  
Nominal service voltage  
Maximum continuous operating voltage  
Remote indication

Service Entrance  
240V Delta  
320V  
Isolated, NO/NC contacts  
60W DC, 120VA AC, 3A rated

Protection present      Green LED  
Fault warning            Red LED

### Maximum Surge Current

| Maximum Surge Current in per Protection Mode |          |          |      | Maximum Surge Current<br>Per Phase |
|--|----------|----------|------|------------------------------------|
| L-N  | L-G      | L-L      | N-G  |                                    |
| ----   | 200,000A | 200,000A | ---- | 200,000A                           |

### Clamping Voltage

| ANSI/IEEE C62.41<br>ANSI/IEEE C62.45<br>Clamping Voltage | B3<br>(500A)<br>Ringwave | B3<br>(3,000A) | C3<br>(10,000A) |
|--|--------------------------|----------------|-----------------|
|  | 1480V                    | 1480V          | 1680V           |

### Agency Approvals

UL 1449 3rd Edition  
CE  
C-UL-US

| Independent UL 1449<br>Suppressed Voltage Ratings |      |      |      | UL 3rd Edition<br>VPR |       |       |      |
|---|------|------|------|-----------------------|-------|-------|------|
| L-N   | L-G  | L-L  | N-G  | L-N                   | L-G   | L-L   | N-G  |
| ----  | 800V | 800V | ---- | ----                  | 1000V | 1800V | ---- |

**Physical and General Data:**

|                        |   |
|------------------------|---|
| Enclosure:             | NEMA 1, 2, 3, 3S, 4, 4X, 12, and 13. Transparent cover for maximum visibility and safety.   |
| Dimensions:            | 11.69" x 8.4" x 4.83" (297mm x 213.36mm x 123mm)  |
| Weight:                | Approx. 7 lbs.  |
| Operating Environment: | -40°C to 85°C, 95% relative humidity (non-condensing)   |
| Construction:          | Ultra low impedance assembly. Modules are bolted to a corrosion resistant, tin plated copper bus bar. No plug-in modules in the surge path. |
| Terminal Lugs:         | #2 AWG max wire size  |
| Mounting:              | 0.31" diameter holes (10.75" x 8.00")<br>(enclosure can be easily drilled for cable access)   |
| Module Replacement:    | Remove two bolts, unplug remote indication connector and remove module.<br>Estimated replacement time 2 minutes.                            |
| Module Dimensions:     | 1.25" x 5.3" x 2.5" (3.2cm x 13.5cm x 6.4cm)  |

