



# Surge Protection

Engineering Specification Submittal

**Model:** ZoneMaster 400 All Mode

**Order Code:** 17402

**Applicable Standards**

NEMA LSI - 1992  
 UL 1449 3rd Edition  
 UL 1283

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

**General Electrical**

SPD Category  
 Nominal service voltage  
 Maximum continuous operating voltage  
 Remote indication

Service Entrance  
 120/240V High Leg  
 150/320V  
 Isolated, NO/NC contacts, 60W DC,  
 120VA AC, 3A rated

Module diagnostics	Protection present	Green LED
	Fault warning	Red LED
	High voltage neutral to ground	Green & Red LED

**Maximum Surge Current**

Maximum Surge Current in per Protection Mode				Maximum Surge Current
L-N	L-G	L-L	N-G	Per Phase
200,00A	200,000A	400,000A	200,000A	400,000A

**Clamping Voltage**

ANSI/IEEE C62.41 ANSI/IEEE C62.45 Clamping Voltage	B (500A) Ringwave	B (3,000A)	C High (10,000A)
	293V	416V	528V

**Agency Approvals**

UL 1449 3rd Edition  
 UL 1283  
 CE  
 C-UL-US

Independent UL 1449 Suppressed Voltage Ratings				UL 1449 Listed 3rd Edition VPR			
L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
400/700V	400/700V	700/1400V	400V	800/1200V	800/1200V	1200/1800V	900V

**Physical and General Data:**

- Enclosure:** NEMA 1, 2, 3, 3S, 4, 4X, 12 & 13 (IP66)
- Dimensions:** 12.4" x 13.7" x 7.3" (315mm x 347.7mm x 185mm)
- Weight:** Approx. 12.5lbs (3.7kg)
- 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 (16.75" x 12.00") (enclosure can be easily drilled for cable access)
- Module Replacement:** Remove two bolts, unplug remote indication connector and remove module. Estimated replacement time 2 minutes.
- Module Dimensions:** 1.25" x 5.3" x 2.5" (3.2cm x 13.5cm x 6.4cm)

