

# Surge Protection

## Engineering Specification Submittal

**Model:** ZoneMaster 170

**Order Code:** 11204

### Applicable Standards

NEMA LSI - 1992  
UL 1449 3rd Edition

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

### General Electrical

SPD Category	Service Entrance
Nominal service voltage	277/480V
Maximum continuous operating voltage	320V
Remote indication	Isolated, NO/NC contacts 60W DC, 120VA AC, 3A rated
Module diagnostics	Protection present
	Fault warning
	High voltage neutral to ground
	Green LED
	Red LED
	Green & Red LED

### Maximum Surge Current

Maximum Surge Current in per Protection Mode				Maximum Surge Current Per Phase
L-N	L-G	L-L	N-G	
170,000A	----	170,000A	170,000A	170,000A

### Clamping Voltage

ANSI/IEEE C62.41 ANSI/IEEE C62.45 Clamping Voltage	B3 (500A) Ringwave	B3 (3,000A)	C3 (10,000A)
	760V	760V	886V

### Agency Approvals

UL 1449 3rd Edition  
CE  
C-UL-US

Independent UL 1449 Suppressed Voltage Ratings				UL 3rd Edition VPR			
L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
800V	---	1500V	400V	1000V	---	1800V	1000V

**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") (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)

