

ZoneSentinel

Engineered specifically for application at distribution boards and small service entrance locations. The **ZoneSentinel** provides cost effective, high capacity surge protection. When used at a local panel, in combination with a ZoneMaster at the service entrance, ZoneSentinel provides the lowest suppression voltages available today, as well as full protection in all ten modes (L-N, L-G, L-L, and N-G).



Product Features

- 90,000A per phase (tested capacity)
- Modular Construction
- Remote indication
- NO/NC dry contacts for remote monitoring
- Replaceable modules
- Protects all equipment supplied from the same distribution board
- Assures protection to 90,000A of surge current in a small package
- NEMA 1, 2, 3, 3S, 4, 4X, 12, 13 rated enclosure
- Low impedance construction
- High N/G voltage warning
- TEN mode protection
- Ten Year - No fuss warranty
- Patented Technology (No. 5,311,393)

Product Specifications

Electrical	
Maximum Surge Current Capacity Per Ø	90,000 A (8/20 ms)
Maximum Surge Current Capacity	45,000 (8/20 ms)
Duty Cycle Performance	45,000A (8/20 ms): >4 impulses 10,000A (8/20 ms): >1500 impulses 100A (8/20 ms): infinite
Maximum Continuous Operating Voltage	25% above nominal
Remote Indication Contacts	NO/NC 125 VAC, 2A rated
Module Diagnostics	Protection present: Green LED Fault warning: Mechanical (fuse link operated) flag High voltage neutral to ground: Red LED
Protection Technology	Patented large block, three terminal MOV
Module Protection	Dual thermal and short circuit fusing mechanisms, UL94-5V rated plastic enclosure
EMI/RFI Noise Attenuation	75dB maximum 100 kHz to 100 mHz
Mechanical	
Enclosure	Durable, lightweight, corrosion resistant, high impact plastic. Ultraviolet stabilized UL94-5V rated NEMA 1, 2, 3, 3S, 4, 4X, 12, and 13. Transparent cover for maximum visibility.
Operating Environment	-40°C to 85°C, 95% relative humidity (non-condensing) Construction: Low impedance assembly. Modules are bolted (¼" bolts) to a large surge return plate to minimize transient impedance and suppression voltage.
Terminal Lugs	#2 AWG max wire size
Mounting	Diameter: 0.31"; Distance between holes: 8.75" x 4.00"
Module Replacement	Remove four ¼" nuts, unplug remote indication connector and remove module. Estimated replacement time 2.5 minutes.
Module Dimensions	1.25" x 5.3" x 2.5" (3.2cm x 13.5cm x 6.4cm)
Dimensions	16" x 14" x 7" (42cm x 37cm x 18cm)
Weight	Approximately 4 lbs (1.8 kg)

Model Selection Guide

Models	Service Voltage	UL 1449	Cat B3:3kA	Cat C3:10kA
12100	120V/240V Split Ø 3 Wire	330 Volts	395V	533V
12101	120V/208V 3Ø 4 Wire WYE	330 Volts	395V	533V
12102	120V/240V 3Ø 4 Wire Delta	330/700 Volts	395V	533V
12103	240V 3Ø 3 Wire Delta	700 Volts	740V	1000V
12104	277V/480V 3Ø 4 Wire WYE	700 Volts	875V	1030V
12106	480V 3Ø 3 Wire Delta	1400 Volts	1600V	1880V
12107	220V/380V 3Ø 4 Wire WYE	700 Volts	875V	1030V
12108	240V/415V 3Ø 4 Wire WYE	700 Volts	875V	1030V