

The ZoneSentinel is a high performance modular suppressor designed for use on electrical distribution panels and small service entrance panels.

Applications include commercial, industrial, retail, government and IT computer room panels.



## Features

- Enhanced redundancy built into each module
- Easy to read status indication
- Thermal and short circuit fusing
- 100k AIC short circuit current rating
- Replaceable bolt-in modules
- UL 1449 3rd Edition Listed
- Large block MOV technology
- 15 year product warranty

## Optional Features

- High performance UL 1283 EMI/RFI filter
- Flush mount capability
- Remote monitoring unit

## Specifications

### Maximum continuous operating voltage

120V — 140Vac

277V — 320Vac

### Lines protected

L-N 50kA, L-G 50kA, L-L 100kA, N-G 50kA

### Duty cycle performance (8/20 $\mu$ s)

50,000A >4 impulses

10,000A >6,000 impulses

100A infinite

### Impulse current for class I (I<sub>imp</sub>)

20kA (10/350 $\mu$ s)

### Long duration current pulse (10/1,000 $\mu$ s) capability

3,600A (tested)

### Ambient temperature limits

-40°F to +185°F (working)

-40°C to +85°C (working)

### Humidity

95% RH (non-condensing)

### Enclosure

NEMA 1, 2, 3, 3S, 4, 4X, 12 & 13 (IP66)

### Terminals

2 AWG (32mm<sup>2</sup>)

### Mounting

Surface mount by 0.31" (8mm) diameter holes

### Indication

Continuous visual status monitoring

Green LED Lit = Full protection

Red LED Lit = Reduced (Standby) **OR**  
No protection

Green LED out = No power to protector

Red & Green LED Lit = High N-G voltage

### Remote contacts

NO/NC

### Weight

4 lbs (1.8Kg)

### Dimensions

Enclosure — see figure 1

### EMC compliance

BS EN 60950: 1992

BS EN 61000-6-2: 1999

## Optional Power Filter

### Limiting voltage

200V (@ 3kA 8/20 $\mu$ s)

### Maximum attenuation (typical)

-75dB (100kHz to 100MHz)

## To order specify -

Model number as per specification table

**Add suffix X for EMI/RFI filter**

**Add suffix F for flush mount options**

## Optional Remote Monitoring Unit

11101 — Battery operated

11102 — AC powered

Model	Maximum surge current I <sub>max</sub> (kA)	Working voltage (V)	UL SVR 2nd Edition (V)	UL VPR 3rd Edition (V)	Limiting voltage		Phase types
					@ 3kA (V)	@10kA (I <sub>n</sub> ) (V)	
12100	100	120/240 split	330	600	456	550	Split phase 3 wire
12101	100	120/208	330	600	456	550	Three phase 4 wire WYE
12104	100	277/480	700	1000	825	950	Three phase 4 wire WY
12107	100	220/380	700	1000	825	950	Three phase 4 wire WYE
12108	100	240/415	700	1000	825	950	Three phase 4 wire WYE

Tested as per ANSI/IEEE C62.45; IEC 61643-1 U<sub>oc</sub> = 6kV

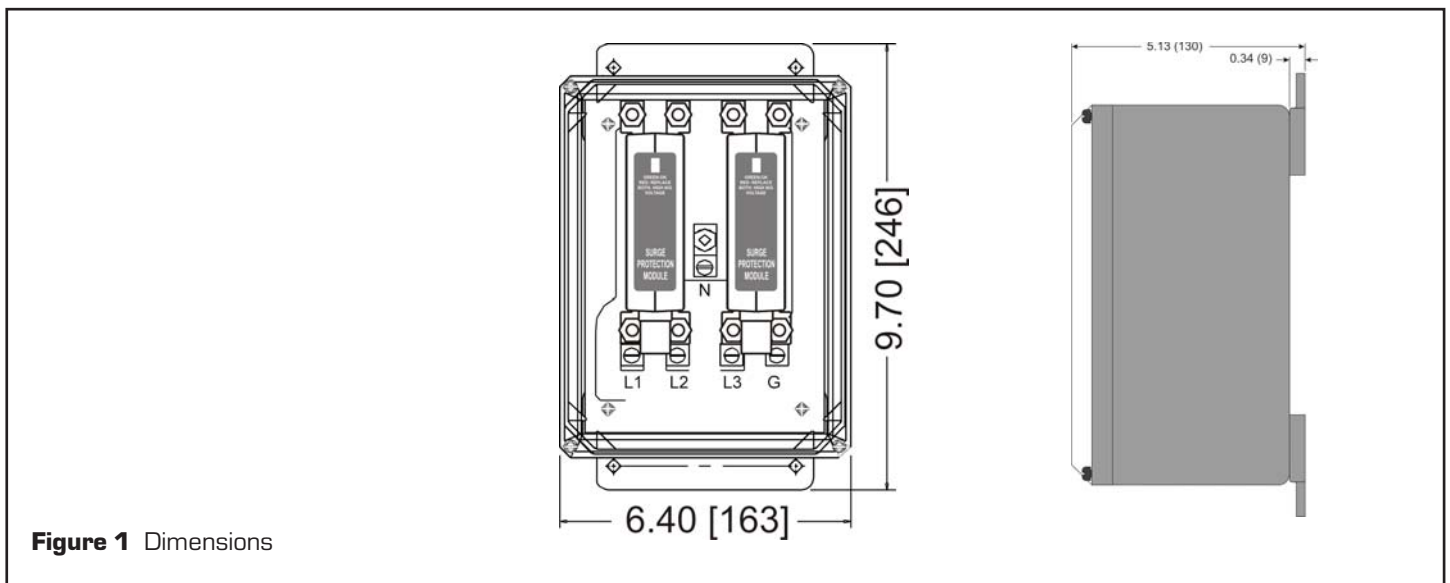


Figure 1 Dimensions

## Approvals

Country	Standard/Authority	Approved for	Product
United States Canada	UL 1449 3rd Edition Listed	AC power product	ZoneSentinel

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All figures typical at 77°F (25°C) unless otherwise stated

