

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 (8/20µs)

50,000A	>4 impulses
10,000A	>6,000 impulses
100A	infinite

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

20kA (10/350µs)

### Long duration current pulse (10/1,000µs) 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 8/20µs)

### 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

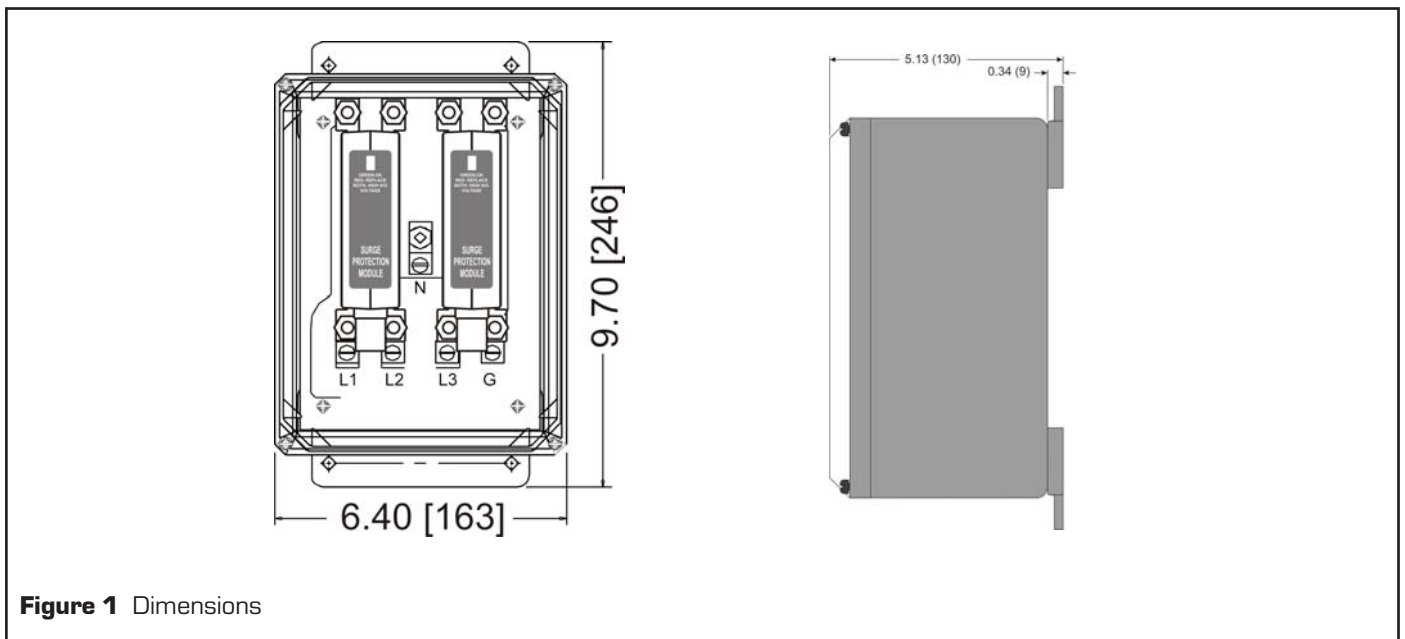
ZM11101 — Battery operated

ZM11102 — AC powered

Model	Maximum surge current I <sub>max</sub> (kA)	Working voltage (V)	ULUL SVR 2nd Edition (V)	VPR 3rd Edition (V)	Limiting voltage		Phase types
					@ 3kA (V)	@10kA (In) (V)	
ZS12100	100	120/240 split	330	600	456	550	Split phase 3 wire
ZS12101	100	120/208	330	600	456	550	Three phase 4 wire WYE
*ZS12103	100	240	—	—	825	950	Three phase 3 wire Delta
ZS12104	100	277/480	700	1000	825	950	Three phase 4 wire WYE
ZS12107	100	220/380	700	1000	825	950	Three phase 4 wire WYE
ZS12108	100	240/415	700	1000	825	950	Three phase 4 wire WYE
*ZS12110	100	240	—	—	825	950	Single phase 2 wire

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

\* NOT UL Listed



**Figure 1** Dimensions

## Approvals

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

**For more information please contact your local MTL sales office:**

<b>The Americas:</b>	+1 800 835 7075
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<b>The Netherlands:</b>	+31 (0)481 450250
<b>Italy:</b>	+39 (0)2 6180 2011
<b>Australia:</b>	+61 (0)8 9455 2994
<b>India:</b>	+91 (0)44 450 1660

**Local sales office information is also available on our web site at:**  
[www.mtlurge.com/support/distribution/index.htm](http://www.mtlurge.com/support/distribution/index.htm)

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

