



technical datasheet

## ZoneDefender Curve

Surge protection for Type 1 or Type 2 applications and systems

- Wide range of voltage applications
- UL 1449 Type 1 and Type 2 applications
- 200kA short circuit current rating
- LED status indication
- UL 1449 3rd Edition Listed
- 10 year product warranty



The **ZoneDefender Curve Series** surge suppressor is specifically designed for applications that require a Type 1 or Type 2 SPD. Type 1 models are available that meet UL96A Master Label Program requirements. This device eliminates the need for additional overcurrent protection providing substantial cost savings. These compact and durable devices offer cost effective, high capacity protection along with application versatility, features which make the Series the ultimate surge protection solution.

**ZoneDefender Curve units**, with a 50kA surge handling capability per phase, provide protection between Line to Neutral, Line to Ground/Earth and Line to Line. Utilizing Metal Oxide Varistor (MOV) technology, the ZoneDefender's protection circuits are highly reliable, dual-redundant varistor networks ensuring your site is never unprotected. Fully automatic in operation, the ZoneDefender Curve reacts immediately, clamping voltage surges without causing undue leakage losses under normal operation. No operator intervention is required, ZoneDefender Curve resets automatically and is maintenance free.

**Thermal fusing** is incorporated into each ZoneDefender Curve as an additional safety feature. Short circuit protection is also supplied, as standard, for added peace of mind.

**ZoneDefender Curve offers an LED Status** indication facility allowing each varistor network to be continually monitored and indicated by LEDs on the front panel of the device.

**The ZoneDefender Curve Series is UL 1449 Listed** and boasts an unrivalled 10 year 'no questions asked' manufacturers product warranty. These devices also exceed the requirements of ANSI/IEEE C62.45 and ANSI/IEEE C62.41.

901-170 Rev A- 170710

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## SPECIFICATION

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

### Maximum surge current

50kA 8/20

### Leakage current

<5µA

### Working voltage

See table

### Maximum continuous operating voltage

125% x nominal

### Ambient temperature limits

-40°F to 185°F (-40°C to +85°C)

### Humidity

95% R-H non-condensing

### LED indication

Red LED = failure

### Installation

Nipple mount

### Ordering information

See table

Model	ZD13700*	ZD13701*	ZD13703*	ZD13704	ZD13705	ZD13706	ZD13712*
Nominal Voltage	120/240	120/208	240	277/480	347/600	480	120
System Type	Split phase	3 ph WYE	3 ph DELTA	3 ph WYE	3 ph WYE	3 ph DELTA	1 phase
Nominal Discharge Current ( $I_n$ , kA)	20	20	20	10	10	10	20
Max. Discharge Current ( $I_{max}$ , kA)	50	50	50	50	50	50	50
Max. Discharge Current ( $I_{imp}$ , kA)	15	15	15	15	15	15	15
Short circuit current rating (SCCR, kA)	200	200	200	200	200	200	200
Voltage Protection Level (VPR) L-N	700	700	—	1200	1500	—	700
Voltage Protection Level (VPR) L-G	—	—	1000	—	—	1800	1200
Voltage Protection Level (VPR) L-L	1200	1200	1800	2000	2500	3000	—
UL 1449 Listing Type	UL Type 1			US/CN Type 2		UL Type 1	
Enclosure Type	NEMA 2						

\* Meets UL96A Master Label Requirements

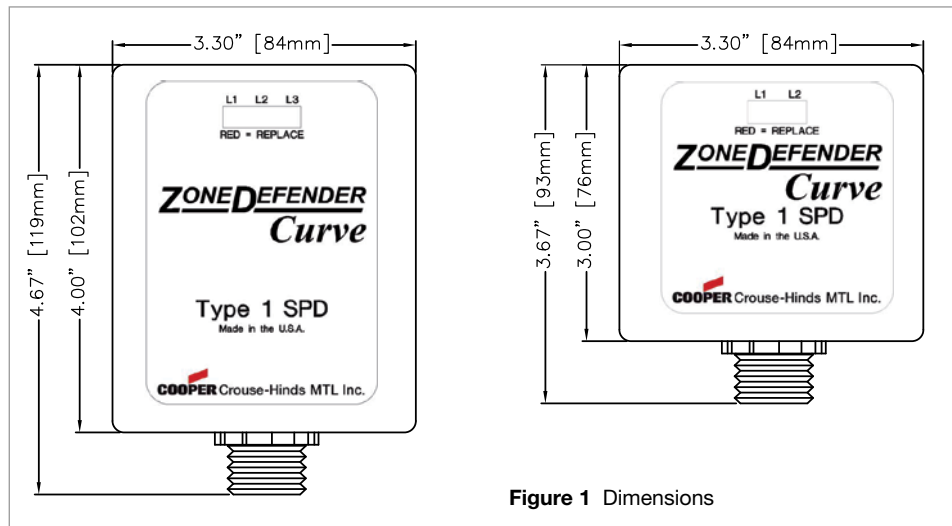


Figure 1 Dimensions

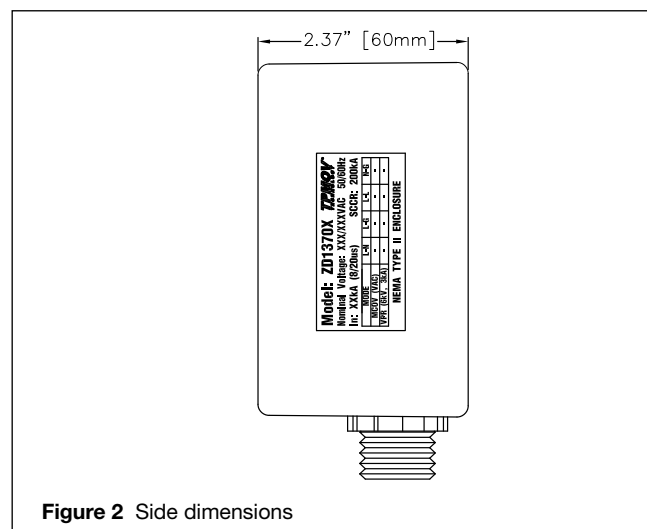


Figure 2 Side dimensions

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.



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