

## ZoneDefender Pro

The ZoneDefender PRO is a versatile, high performance surge protector designed for use in a wide variety of industrial, institutional and commercial applications. This is the most compact, powerful, feature-rich surge protector on the market today. State-of-the-art circuitry protects equipment from high frequency noise as well as from damaging electrical transient and high-energy disturbances.

### SPECIFICATIONS

**Max. surge current:** 80kA/100kA/120kA, 160kA, 200kA, 240kA (8/20 $\mu$ s)

**Max. continuous operating voltage:** 120/240V versions 140Vac

120/208V versions 140Vac

277/480V versions 320Vac

220/380V versions 300Vac

240/415V versions 300Vac

**Lines protected AC:** L-N, L-G, L-L, N-G

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

10,000A - >6,500 impulses, 100A - infinite impulses

**Long duration current pulse (1/1,000 $\mu$ s) capability:** 3,600A (tested)

**Humidity:** 95% RH (non-condensing)

**Enclosure:** NEMA 1, 2, 12, and 13 (IP60)

**Terminals:** #10AWG & #8 AWG

**Remote Contacts:** Form C (NC, NO, C) 125 Vac, 3A rated

**Audible alarm:** 90dB

**EMI/RFI attenuation:** -75dB maximum 100kHz to 100MHz

**Weight:** from 5.2lbs

**Dimensions:** 9.30" x 3.00" x 4.93"

**SCCR Rating:** Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical Amperes, 480V maximum.

**EMC Compliance:** BS EN 60950: 1992

BS EN 61000-6-2: 1999

Ratings in compliance with IEC 61643-1

$I_{max}$  = 80kA, 100kA, 120kA

$I_{imp}$  = 6kA (10/350)\*

$I_{max}$  = 160kA, 200kA, 240kA

$I_{imp}$  = 10kA (10/350)\*

\*All current results are per phase



#### Indication

Green LED on } Power and ground present, full  
Red LED off } protection in all modes, all phases

Green LED off } Loss of power or loss of ground (remote)  
Red LED off } indication warning, via contacts

Green LED off } Protection fault (remote indication alarm)  
Red LED on } via contacts & audible alarm

#### Suitable for all AC power applications:

ZoneDefender PRO devices provide protection for AC power supplies with no restriction to the amount of load current.

ZoneDefender PRO offers an LED Status indication allowing each varistor network to be continually monitored and indicated by LEDs on the front panel of the device. In addition, remote monitoring is enabled by the unit's remote indication contacts.

(ZoneDefender Pro continued on next page)

# ZoneDefender Pro(cont.)

Model	Working Voltage	UL1449 Listing	Let-through Voltage		U <sub>p</sub>	Ringwave @ 200A	Phase Types
			@3kA*	@10kA* I <sub>n</sub>			
<b>80kA versions</b>							
AT16100	120V/240V	400V	470V	780V	0.8kV	60V	Split phase 3 wire
AT16101	120V/208V	400V	470V	780V	0.8kV	60V	Three phase 4 wire WYE
AT16104	277V/480V	800V	890V	1200V	1.2V	75V	Three phase 4 wire WYE
AT16107	220V/380V	800V	890V	1200V	1.2V	75V	Three phase 4 wire WYE
AT16108	240V/415V	800V	890V	1200V	1.2V	75V	Three phase 4 wire WYE
<b>100kA versions</b>							
AT16200	120V/240V	400V	470V	780V	0.8kV	60V	Split phase 3 wire
AT16201	120V/208V	400V	470V	780V	0.8kV	60V	Three phase 4 wire WYE
AT16202	120V/240V	400V/800V	470V/890V	780V/1200V	0.8kV/1.2kV	60V/75V	Three phase 4 wire Delta
AT16204	277V/480V	800V	890V	1200V	1.2V	75V	Three phase 4 wire WYE
AT16207	220V/380V	800V	890V	1200V	1.2V	75V	Three phase 4 wire WYE
AT16208	240V/415V	800V	890V	1200V	1.2V	75V	Three phase 4 wire WYE
<b>120kA versions</b>							
AT16300	120V/240V	400V	470V	780V	0.8kV	60V	Split phase 3 wire
AT16301	120V/208V	400V	470V	780V	0.8kV	60V	Three phase 4 wire WYE
AT16302	120V/240V	400V/800V	470V/890V	780V/1200V	0.8kV/1.2kV	60V/75V	Three phase 4 wire Delta
AT16304	277V/480V	800V	890V	1200V	1.2V	75V	Three phase 4 wire WYE
AT16307	220V/380V	800V	890V	1200V	1.2V	75V	Three phase 4 wire WYE
AT16308	240V/415V	800V	890V	1200V	1.2V	75V	Three phase 4 wire WYE
<b>160kA versions</b>							
AT16400	120V/240V	400V	430V	650V	0.7kV	50V	Split phase 3 wire
AT16401	120V/208V	400V	430V	650V	0.7kV	50V	Three phase 4 wire WYE
AT16402	120V/240V	400V/800V	430V/770V	650V/1180V	0.7kV/1.2kV	50V/68V	Three phase 4 wire Delta
AT16404	277V/480V	800V	770V	1180V	1.2V	68V	Three phase 4 wire WYE
AT16407	220V/380V	800V	770V	1180V	1.2V	68V	Three phase 4 wire WYE
AT16408	240V/415V	800V	770V	1180V	1.2V	68V	Three phase 4 wire WYE
<b>200kA versions</b>							
AT16500	120V/240V	400V	430V	650V	0.7kV	50V	Split phase 3 wire
AT16501	120V/208V	400V	430V	650V	0.7kV	50V	Three phase 4 wire WYE
AT16502	120V/240V	400V/800V	430V/770V	650V/1180V	0.7kV/1.2kV	50V/68V	Three phase 4 wire Delta
AT16504	277V/480V	800V	770V	1180V	1.2V	68V	Three phase 4 wire WYE
AT16507	220V/380V	800V	770V	1180V	1.2V	68V	Three phase 4 wire WYE
AT16508	240V/415V	800V	770V	1180V	1.2V	68V	Three phase 4 wire WYE
<b>240kA versions</b>							
AT16600	120V/240V	400V	430V	650V	0.7kV	50V	Split phase 3 wire
AT16601	120V/208V	400V	430V	650V	0.7kV	50V	Three phase 4 wire WYE
AT16602	120V/240V	400V/800V	430V/770V	650V/1180V	0.7kV/1.2kV	50V/68V	Three phase 4 wire Delta
AT16604	277V/480V	800V	770V	1180V	1.2V	68V	Three phase 4 wire WYE
AT16607	220V/380V	800V	770V	1180V	1.2V	68V	Three phase 4 wire WYE
AT16608	240V/415V	800V	770V	1180V	1.2V	68V	Three phase 4 wire WYE