# ZoneMaster range

Ideally suited to protect small to medium service entrance panels from induced surges and transients

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



The ZoneMaster range of surge protection devices combines unparalleled power handling capability, application versatility, proven circuitry along with simple installation, features which make these units the ultimate mains power protection solution. With configurations suitable for all International supply voltages, ZoneMaster is truly a versatile and flexible protection range.

**ZoneMaster devices are modular in construction.** Individual modules are bolted to a large surge return plate to minimise transient impedance. These colour coded, replaceable modules, with a UL 94-5V rated plastic casing are supplied mounted within a durable IP66 rated enclosure. ZoneMaster units are easy to install via simple wall mounting, although flush mounting is also an option.

Large block, 3 terminal Metal Oxide Varistor (MOV) protection technology is utilised within the ZoneMaster range. The dual protection

circuits of ZoneMaster 150 devices provide full redundancy ensuring the site is never unprotected. All ZoneMaster units also include thermal and short circuit fusing for additional safety.

**Status indication is supplied as standard,** normally open/ normally closed contacts change state to indicate a fault. An optional remote monitoring unit is also available providing audio and visual indication of protector status, along with features such as a test switch for checking the monitoring circuitry and an audio alarm silence switch.

The optional mains power filter has a noise attenuation of 75dB at 100KHz-100MHz and will attenuate 6kV transients down to just 200V. This mains power filter is UL 1283 Listed and all ZoneMaster devices have UL 1449 Listing for added peace of mind.



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## ZoneMaster range

September 2016

### **SPECIFICATION**

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

### Maximum continuous operating voltage

120V — 140Vac 240V — 280Vac 277V — 320Vac

### Lines protected

ZoneMaster 170 L-N 170kA, L-L 170kA, N-G 170kA ZoneMaster 200 L-N 200kA, L-L 200kA, N-G 200kA

#### Duty cycle performance (8/20µs)

100,000A >4 impulses 10,000A >8,000 impulses 170A infinite

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

50kA (10/350us)

### 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

# Remote contacts

NO/NC

# Weight

Approx. 7 lbs (3.2 kg)

### **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



Powering Business Worldwide

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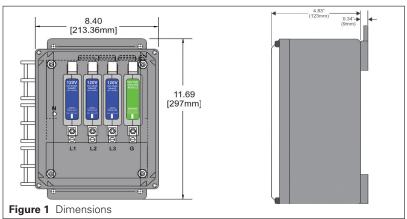
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Imax (kA) Edition\* (V) (In) (V) ZM11200 120/240 split 170 600 350 446 Split phase 3 wire ZM11201 120/208 170 600 350 446 Three phase 4 wire WYE ZM11202 170 120/240 600/1000 446 Three phase 4 wire Delta ZM11203 170 240 1000 760 886 Three phase 3 wire Delta ZM11204 170 277/480 1000 760 886 Three phase 4 wire WY ZM11206 170 480 1800 1480 Three phase 3 wire Delta 1680 ZM11207 170 220/380 1000 760 886 Three phase 4 wire WYE ZM11208 170 240/415 1000 760 886 Three phase 4 wire WYE ZM11300 200 120/240 split 600 350 446 Split phase 3 wire ZM11301 200 120/208 600 350 446 Three phase 4 wire WYE ZM11302 200 120/240 600/1000 350 446 Three phase 4 wire Delta ZM11303 200 240 1000 760 886 Three phase 3 wire Delta ZM11304 200 277/480 1000 760 886 Three phase 4 wire WYF ZM11306 200 480 1800 1480 1680 Three phase 3 wire Delta Three phase 4 wire WYE ZM11307 200 220/380 1000 760 886 ZM11308 200 240/415 1000 760 886 Three phase 4 wire WYE \*Tested as per ANSI/IEEE C62.45; IEC 61643-1 U<sub>oc</sub> = 6kV



# **APPROVALS**

Model

**Maximum** 

surge current Working

voltage

(V)

UL

**VPR** 

3rd

**Limiting voltage** 

@10kA

@ 3kA

Phase types

Country	Standard/Authority	Approved for	Product
United States Canada	UL 1449 Listed	AC power product	ZoneMaster

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.