

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.

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_{imp})

50kA (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 (32mm²)

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



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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.

Model	Maximum surge current I _{max} (kA)	Working voltage (V)	UL VPR 3rd Edition*	Limiting voltage		Phase types
				@ 3kA (V)	@ 10kA (I _n) (V)	
ZM11200	170	120/240 split	600	350	446	Split phase 3 wire
ZM11201	170	120/208	600	350	446	Three phase 4 wire WYE
ZM11202	170	120/240	600/1000	350	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	1680	Three phase 3 wire Delta
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 WYE
ZM11306	200	480	1800	1480	1680	Three phase 3 wire Delta
ZM11307	200	220/380	1000	760	886	Three phase 4 wire WYE
ZM11308	200	240/415	1000	760	886	Three phase 4 wire WYE

*Tested as per ANSI/IEEE C62.45; IEC 61643-1 U_{OC} = 6kV

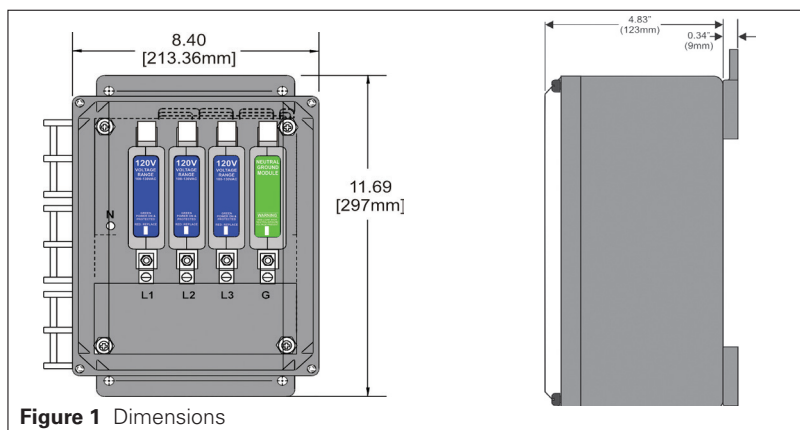


Figure 1 Dimensions

APPROVALS

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