

ZoneMaster All-Mode range

Designed for all types of switchgear, distribution panels and branch panelboard applications.

- **Enhanced redundancy plus 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 4th Edition Listed**
- **15 year product warranty**



The ZoneMaster All-Mode range of surge protection devices combines unparalleled power handling capability, application versatility, proven circuitry along with simple installation, features which make ZoneMaster All-Mode units the ultimate power protection solution. With 200kA and 340kA versions available and configurations suitable for all International supply voltages, ZoneMaster All-Mode is truly a versatile and flexible protection range.

ZoneMaster All-Mode devices are modular in construction, individual modules are bolted to a large surge return plate to minimize transient impedance. These color coded, replaceable modules, with a UL 94-5V rated plastic casing are supplied mounted within a durable NEMA 4X (IP66) rated enclosure. ZoneMaster All-Mode units are easy to install via simple wall mounting.

Large block Metal Oxide Varistor (MOV) protection technology is utilized within the ZoneMaster All-Mode range. Each of the large block MOVs are individually fused for both thermal and short circuit protection. This produces redundancy ensuring the facility is never unprotected.

LED 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 power filter has a noise attenuation of 75dB at 100KHz-100MHz and will attenuate 6kV transients down to just 200V. This power filter is UL 1283 Listed and all ZoneMaster All-Mode devices are UL 1449 4th Edition Listed.

ZoneMaster All-Mode range

September 2022

SPECIFICATION

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

Maximum continuous operating voltage

120V — 150Vac
277V — 320Vac

Lines protected

ZoneMaster All-Mode 200
L-N 100kA, L-G 100kA, L-L 200kA, N-G 200kA
ZoneMaster All-Mode 240
L-N 120kA, L-G 120kA, L-L 240kA, N-G 240kA
ZoneMaster All-Mode 340
L-N 170kA, L-G 170kA, L-L 340kA, N-G 170kA
ZoneMaster All-Mode 400
L-N 200kA, L-G 200kA, L-L 400kA, 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})

ZoneMaster All-Mode 200 25kA (10/350µs)
ZoneMaster All-Mode 340 35kA (10/350µs)
ZoneMaster All-Mode 400 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

Zonemaster All-Mode 200 10.5 lbs (4.8Kg)
Zonemaster All-Mode 340 12.5 lbs (5.7Kg)

Dimensions

Enclosure — see figure 1

EMC compliance

EN 61326-1:2013

Model	Maximum surge current I _{max} (kA)	Working voltage (V)	UL 4th Edition VPR (V)	Limiting voltage		Phase types
				@ 3kA* (V)	@ 10kA(I _n) (V)	
ZM17200	200	120/240 split	700	416	528	Split phase 3-wire
ZM17201	200	120/208	700	416	528	Three phase 4-wire WYE
ZM17202	200	120/240	700/1200	416	528	Three phase 4-wire Delta
ZM17204	200	277/480	1200	776	904	Three phase 4-wire WYE
ZM17207	200	220/380	1200	776	904	Three phase 4-wire WYE
ZM17208	200	240/415	1200	776	904	Three phase 4-wire WYE
ZM17300	340	120/240 split	600	416	528	Split phase 3-wire
ZM17301	340	120/208	600	416	528	Three phase 4-wire WYE
ZM17302	340	120/240	600/1200	416	528	Three phase 4-wire Delta
ZM17304	340	277/480	1200	776	904	Three phase 4-wire WYE
ZM17307	340	220/380	1200	776	904	Three phase 4-wire WYE
ZM17308	340	240/415	1200	776	904	Three phase 4-wire WYE

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

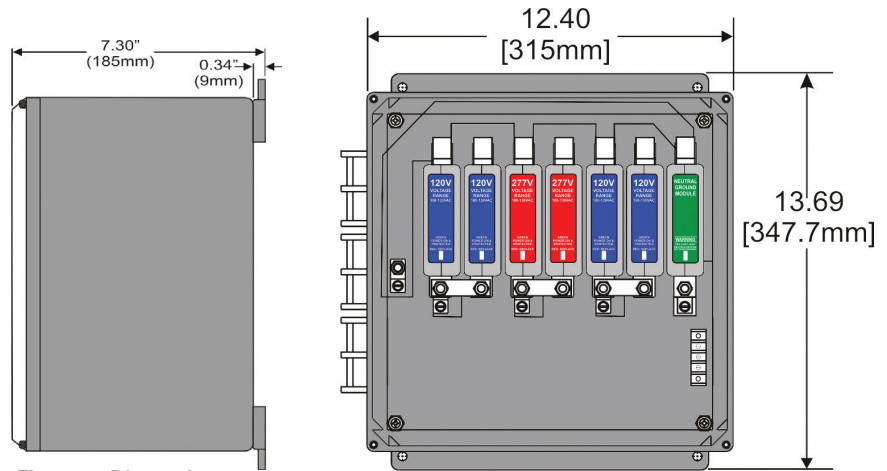


Figure 1 Dimensions

OPTIONAL POWER FILTER

Limiting voltage
200V (@ 3kA 8/20µs)
Maximum attenuation (typical)
-75dB (100kHz to 100MHz)

OPTIONAL REMOTE MONITORING UNIT

ZM11101 — Battery operated

TO ORDER SPECIFY -

Model number as per specification table
Add suffix X for EMI/RFI filter

APPROVALS

Country	Standard/Authority	Approved for	Product
United States Canada	UL 1449 4th Edition Listed	AC power product	ZoneMaster All-Mode



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