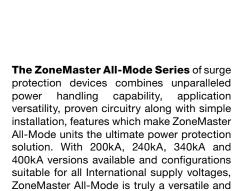


ZoneMaster All-Mode Series

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 3rd Edition Listed
- 15 year product warranty

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 3rd Edition Listed.

901-146 Rev G 110511



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 infinite

170A 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 240 10.5 lbs (4.8Kg)

Zonemaster All-Mode 340 12.5 lbs (5.7Kg)

Zonemaster All-Mode 400 12.5 lbs (5.7Kg)

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)

OPTIONAL REMOTE MONITORING UNIT

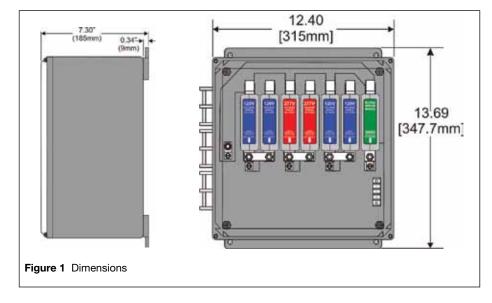
ZM11101 — Battery operated

TO ORDER SPECIFY -

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

Model	Maximum surge current	Working voltage	UL 3rd Edition VPR	Limiting voltage @ 3kA* @10kA (In)		Phase types
	lmax (kA)	(V)	(V)	(V)	(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
ZM17500	240	120/240 split	700	416	528	Split phase 3-wire
ZM17501	240	120/208	700	416	528	Three phase 4-wire WYE
ZM17502	240	120/240	700/1200	416	528	Three phase 4-wire Delta
ZM17504	240	277/480	1200	776	904	Three phase 4-wire WYE
ZM17507	240	220/380	1200	776	904	Three phase 4-wire WYE
ZM17508	240	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
ZM17400	400	120/240 split	600	416	528	Split phase 3-wire
ZM17401	400	120/208	600	416	528	Three phase 4-wire WYE
ZM17402	400	120/240	600/1200	416	528	Three phase 4-wire Delta
ZM17404	400	277/480	1200	776	904	Three phase 4-wire WYE
ZM17407	400	220/380	1200	776	904	Three phase 4-wire WYE
ZM17408	400	240/415	1200	776	904	Three phase 4-wire WYE

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



APPROVALS

Country	Standard/Authority	Approved for	Product
United States Canada	UL 1449 3rd Edition Listed	AC power product	ZoneMaster All-Mode

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.

