

The ZoneMaster 170 and 200 Series are ideally suited for small to medium service entrance panels. Their enhanced redundancy and surge current rating make these products well suited for installation in high lightning activity areas. The different voltage options allow these units to be installed in locations around the world.

Applications include industrial, commercial, traffic systems, military and telecommunications.



Features

- 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

Optional Features

- High performance UL 1283 EMI/RFI filter
- Flush mount capability
- Remote monitoring unit

Specifications

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
Red & Green LED Lit = High N-G voltage

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

ZM11102 — AC powered

Model	Maximum surge current I _{max} (kA)	Working voltage (V)	UL SVR 2nd Edition (V)	UL VPR 3rd Edition (V)	Limiting voltage		Phase types
					@ 3kA (V)	@10kA (I _n) (V)	
ZM11200	170	120/240 split	400	600	350	446	Split phase 3 wire
ZM11201	170	120/208	400	600	350	446	Three phase 4 wire WYE
ZM11202	170	120/240	400/800	600/1000	350	446	Three phase 4 wire Delta
ZM11203	170	240	800	1000	760	886	Three phase 3 wire Delta
ZM11204	170	277/480	800	1000	760	886	Three phase 4 wire WY
ZM11206	170	480	1200	1800	1480	1680	Three phase 3 wire Delta
ZM11207	170	220/380	800	1000	760	886	Three phase 4 wire WYE
ZM11208	170	240/415	800	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

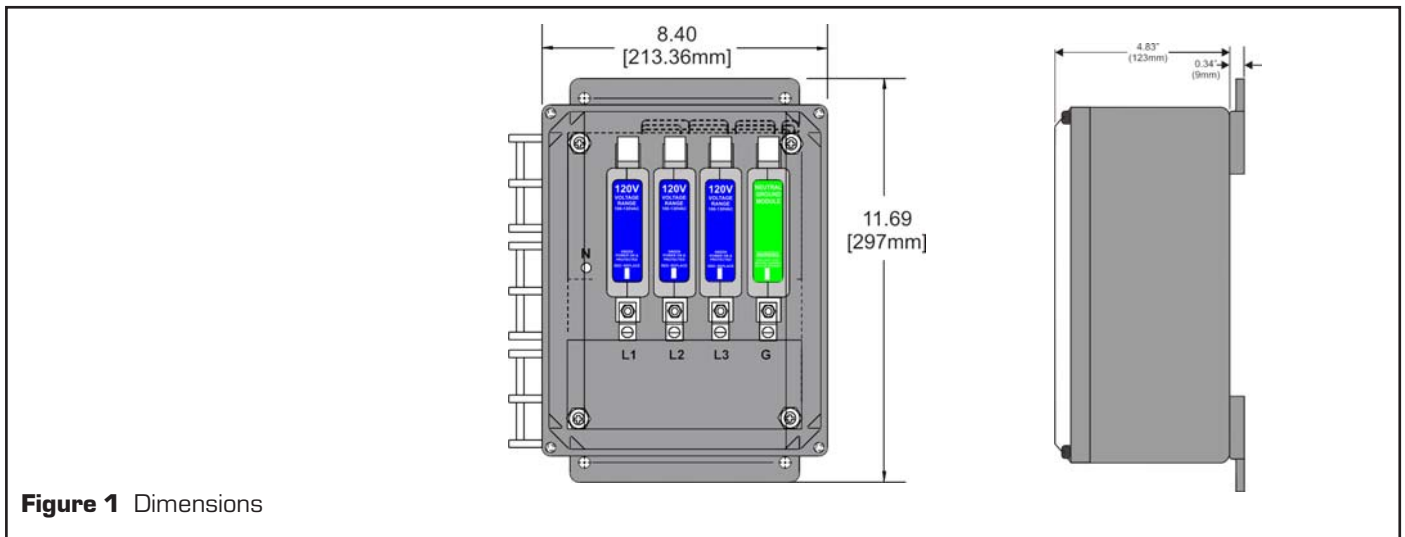


Figure 1 Dimensions

Approvals

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

For more information please contact your local MTL sales office:

The Americas: +1 800 835 7075
UK: +44 (0)1582 723633
Singapore: +65 6 487 7887
The Netherlands: +31 (0)481 450250
Italy: +39 (0)2 6180 2011
Australia: +61 (0)8 9455 2994
India: +91 (0)44 450 1660

Local sales office information is also available on our web site at:
www.mtl surge.com/support/distribution/index.htm

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

