



technical datasheet

ZoneMaster PRO Series

Designed for all types of switchgear, distribution & branch panels, plus available with numerous options for a broad range of applications.

- Enhanced redundancy built into each module
- Thermal and short circuit fusing
- Surge counter with fault monitor and audible alarm
- Low let-through performance with high current impulses
- 100k AIC short circuit rating
- Replaceable bolt-in modules
- UL 1449 3rd Edition Listed
- 15 year product warranty



ZoneMaster PRO Series of surge protection devices combines all the advantages of all mode protection with features and options to meet the needs of the most complex protection requirements. The ZoneMaster PRO series is available with surge current capacities of 200kA, 240kA, 340kA and 400kA. This along with the different international voltages available make the ZoneMaster PRO the most versatile product on the market.

ZoneMaster PRO Series features modular construction, individual modules are bolted to a large surge return plate to minimize transient impedance. These color coded replaceable modules with a UL94-5V rated plastic casing are supplied mounted within a durable metal enclosure. The ZoneMaster PRO units are easy to install via simple surface mounting or optional flush mounting.

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

Status indication is provided through a front panel display, audible, and NO/NC remote alarm contacts. Individual module status is provided by LED status indication on each module. An optional remote monitoring unit is also available providing audible and visual indication of protection 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 200 volts. This power filter is UL1283 Listed and all ZoneMaster PRO devices are UL1449 3rd Edition Listed.

901-160 Rev E 110511

**COOPER** Crouse-Hinds

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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 PRO 200

L-N 100kA, L-G 100kA, L-L 200kA, N-G 200kA
Delta — L-G 200kA, L-L 200kA

ZoneMaster PRO 240

L-N 120kA, L-G 120kA, L-L 240kA, N-G 240kA
Delta — L-G 240kA, L-L 240kA

ZoneMaster PRO 340

L-N 170kA, L-G 170kA, L-L 340kA, N-G 170kA
Delta — L-G 340kA, L-L 340kA

ZoneMaster PRO 400

L-N 200kA, L-G 200kA, L-L 400kA, N-G 200kA
Delta — L-G 400kA, L-L 400kA

Duty cycle performance (8/20μs)

100,000A >4 impulses
10,000A >8,000 impulses
200A 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 (standard)

Terminals

2 AWG (32mm²)

Mounting

Surface mount via 0.31" (8mm) diameter holes or optional flush mount available

Indication

Continuous visual status monitoring

Green LED Lit = Full protection
Red LED Lit = Reduced (Standby)
OR No protection

Remote contacts

NO/NC

Weight

25.4 lbs (11.2kg)

Dimensions

Enclosure — see figure 1

NEMA 4X: 507 x 508 x 255mm (approx.)

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)

ORDERING INFORMATION

Model number as per specification table

Add suffix X for EMI/RFI filter

Add suffix F for flush mount options

Add suffix D for disconnect

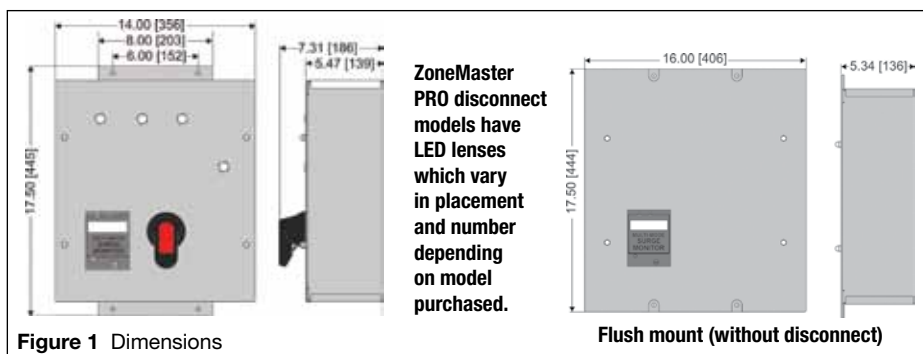
Add suffix O for NEMA 4 enclosure

Add suffix S for NEMA 4X enclosure

Add suffix R for battery powered remote monitor unit

Model	Maximum surge current I _{max} (kA)	Working voltage (V)	UL 3rd Edition VPR (V)	Limiting voltage @3kA* @10kA (In) (V)		Phase types
ZM15100	200	120/240 split	700	416	528	Split phase 3 wire
ZM15101	200	120/208	700	416	528	Three phase 4 wire WYE
ZM15102	200	120/240	700/1200	416	528	Three phase 4 wire Delta
ZM15103	200	240	1200	832	1056	Three phase 3 wire Delta
ZM15104	200	277/480	1200	776	904	Three phase 4 wire WYE
ZM15106	200	480	2000	1552	1800	Three phase 3 wire Delta
ZM15107	200	220/380	1200	776	904	Three phase 4 wire WYE
ZM15108	200	240/415	1200	776	904	Three phase 4 wire WYE
ZM15000	240	120/240 split	700	416	528	Split phase 3 wire
ZM15001	240	120/208	700	416	528	Three phase 4 wire WYE
ZM15002	240	120/240	700/1200	416	528	Three phase 4 wire Delta
ZM15003	240	240	1200	832	1056	Three phase 3 wire Delta
ZM15004	240	277/480	1200	776	904	Three phase 4 wire WYE
ZM15006	240	480	2000	1552	1800	Three phase 3 wire Delta
ZM15007	240	220/380	1200	776	904	Three phase 4 wire WYE
ZM15008	240	240/415	1200	776	904	Three phase 4 wire WYE
ZM15200	340	120/240 split	700	416	528	Split phase 3 wire
ZM15201	340	120/208	700	416	528	Three phase 4 wire WYE
ZM15202	340	120/240	700/1200	416	528	Three phase 4 wire Delta
ZM15203	340	240	1200	832	1056	Three phase 3 wire Delta
ZM15204	340	277/480	1200	776	904	Three phase 4 wire WYE
ZM15206	340	480	2000	1552	1800	Three phase 3 wire Delta
ZM15207	340	220/380	1200	776	904	Three phase 4 wire WYE
ZM15208	340	240/415	1200	776	904	Three phase 4 wire WYE
ZM15300	400	120/240 split	700	416	528	Split phase 3 wire
ZM15301	400	120/208	700	416	528	Three phase 4 wire WYE
ZM15302	400	120/240	700/1200	416	528	Three phase 4 wire Delta
ZM15303	400	240	1200	832	1056	Three phase 3 wire Delta
ZM15304	400	277/480	1200	776	904	Three phase 4 wire WYE
ZM15306	400	480	2000	1552	1800	Three phase 3 wire Delta
ZM15307	400	220/380	1200	776	904	Three phase 4 wire WYE
ZM15308	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	UL 1449 3rd Edition Listed	AC power product	ZoneMaster PRO
Canada	(C-UL-US Listed)		

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.



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