

ZoneMaster Pro Type 1 range

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**
- **200k AIC short circuit rating**
- **Replaceable bolt-in modules**
- **UL 1449 3rd Edition Listed**
- **UL Type1, $I_n = 20kA, 200kA$ SCCR**
- **Meets UL96A Master Label Requirements**
- **15 year product warranty**



ZoneMaster PRO range 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 340kA and 400kA. This along with the different international voltages available make the ZoneMaster PRO the most versatile product on the market.

ZoneMaster PRO range 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.

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 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

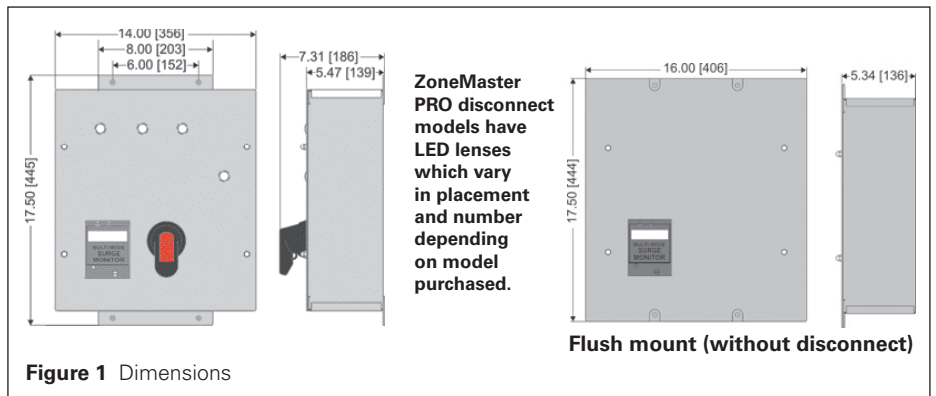
ORDERING INFORMATION

Model number as per specification table

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
				(V)	(V)	
ZM15600	340	120/240 split	700	416	528	Split phase 3 wire
ZM15601	340	120/208	700	416	528	Three phase 4 wire WYE
ZM15602	340	120/240	700/1200	416	528	Three phase 4 wire Delta
ZM15603	340	240	1200	832	1056	Three phase 3 wire Delta
ZM15604	340	277/480	1200	776	904	Three phase 4 wire WYE
ZM15606	340	480	2000	1552	1800	Three phase 3 wire Delta
ZM15607	340	220/380	1200	776	904	Three phase 4 wire WYE
ZM15608	340	240/415	1200	776	904	Three phase 4 wire WYE
ZM15700	400	120/240 split	700	416	528	Split phase 3 wire
ZM15701	400	120/208	700	416	528	Three phase 4 wire WYE
ZM15702	400	120/240	700/1200	416	528	Three phase 4 wire Delta
ZM15703	400	240	1200	832	1056	Three phase 3 wire Delta
ZM15704	400	277/480	1200	776	904	Three phase 4 wire WYE
ZM15706	400	480	2000	1552	1800	Three phase 3 wire Delta
ZM15707	400	220/380	1200	776	904	Three phase 4 wire WYE
ZM15708	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 /UL	AC power product	ZoneMaster PRO Type 1



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Publication No. EPS 901-179 rev B 220916
September 2016

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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.