September 2022 EPS 901-104_ZD Pro Rev Q

CROUSE-HINDS SERIES

ZoneDefender Pro range

The most compact, powerful, feature-rich AC surge protector available

- 80kA to 240kA surge current rating per phase
- Includes high-performance
 EMI/RFI filtering
- LED status indication via solid state diagnostics plus remote indication contacts
- Built-in audible alarm
- Thermal and short circuit fusing
- Short circuit current rating: 200k AIC
- UL 1449 4th Edition Listed
- 10 year product warranty
- UL1449 Type 2 SPD, In=20kA

The ZoneDefender PRO range is a versatile, high performance surge protector designed for use in a wide variety of industrial, institutional and commercial applications. The ZoneDefender PRO is the most compact, powerful, feature-rich surge protector on the market today. State-of-the-art circuitry protects equipment from high frequency noise as well as from damaging electrical transients and high-energy disturbances. In addition, the ZoneDefender PRO range offers costeffective high capacity protection along with application versatility; features which make the range the ultimate surge protection solution.

ZoneDefender PRO units provide protection between Line to Neutral, Line to Ground, Line to Line and Neutral to Ground. Utilizing Metal Oxide Varistor (MOV) technology, the ZoneDefender PRO's protection circuits are highly reliable, dual-redundant varistor networks ensuring your site is never unprotected. Fully automatic in operation, ZoneDefender PRO reacts immediately, clamping voltage surges without causing undue leakage losses under normal operation. No operator intervention is required, ZoneDefender PRO resets automatically and is maintenance free.



Suitable for all AC power applications, ZoneDefender PRO devices provide protection for AC power supplies with no restriction to the amount of load current.

Thermal fusing is incorporated into each ZoneDefender PRO as an additional safety feature. Short circuit protection with 200kA AIC rating is also supplied, as standard, for added peace of mind.

ZoneDefender PRO offers an LED status indication allowing each varistor network to be continually monitored and indicated by LEDs on the front panel of the device. In addition, remote monitoring is enabled by the unit's remote indication contacts.

Installation is simple- the ZoneDefender PRO devices can be easily surface or nipple mounted.

The ZoneDefender PRO range is UL 1449 4th Edition Listed and boasts an unrivaled 10 year 'no questions asked' manufacturers product warranty. ZoneDefender PRO devices also exceed the requirements of ANSI/IEEE C62.45 and ANSI/IEEE C62.41.

Meets UL96A installation requirements for lightning protection systems for master label certification.



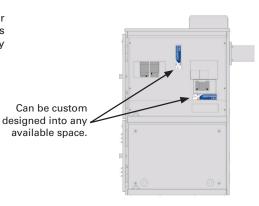
Eaton Electric Limited, Great Marlings, Butterfield, Luton Beds, LU2 8DL, UK. Tel: + 44 (0)1582 723633 Fax: + 44 (0)1582 422283 E-mail: mtlenguiry@eaton.com www.mtl-inst.com

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SMALL SIZE MAKES INTEGRATION INTO CUSTOM EQUIPMENT A BREEZE

ZoneDefender PRO saves money by facilitating smaller AC power cabinets. Once the ZoneDefender Pro has been engineered in, there is no re-engineering needed to meet customers changing surge capacity requirements. Great for:

- Telecom power distribution cabinets
- Industrial control panels
- Motor drive panels
- Automatic transfer switch
- Facility distribution panels



ADVANCED INDICATION AND MONITORING



Red LED = Fault warning Advanced circuitry monitors every suppression component in the ZoneDefender PRO.

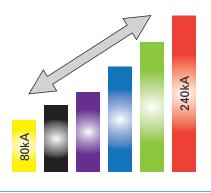
Green LED = Protection operational and ground present Assures user that full protection is present. Advanced circuitry continuously monitors the presence of a ground connection.

Any fault in the unit triggers an audible alarm. Great for units hidden from view.

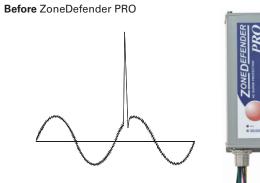
Normally open, normally closed, voltage free contacts are a standard feature on all ZoneDefender PROs.

POWERFUL SURGE PROTECTION

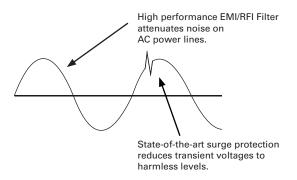
- Surge capacity options to cover every requirement and budget.
- An unmatched range of surge current capacities available in the same compact package.
- The same small footprint (236mm x 76mm) for all six (6) surge capacity types.



PRECISE POWER PROTECTION



After ZoneDefender PRO



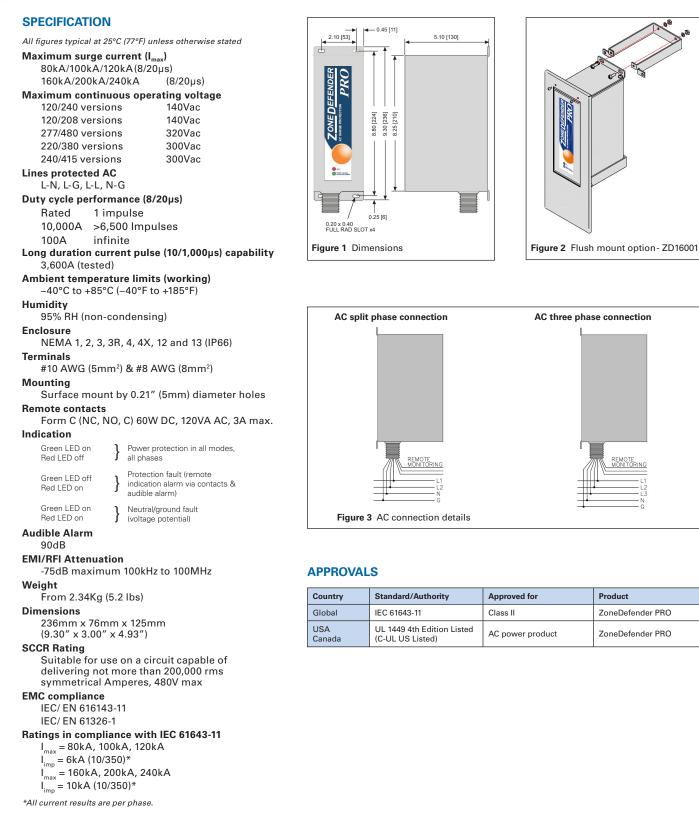
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| Model | Working voltage (V) | UL1449 4th edition VPR (kV) | | | | | | | Limiting V | /oltage(kV) | Up (kV) | Ring- wave@200A | Phase Types |
|----------------|------------------------|-----------------------------|-----|-----|-----|-----|-----|-----|------------|-------------|---------|--------------------|--------------------------|
| | | ĿL | L-N | L-G | N-G | H-L | H-N | H-G | @ 3kA | @ 10kA(In) | | (V) | |
| 80KA Versions | | | | | | | | | | | | | |
| ZD16100 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.47 | 0.78 | 0.8 | 60 | Split phase 3 wire |
| ZD16101 | 120/208 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.47 | 0.78 | 0.8 | 60 | Three phase 4 wire WYE |
| ZD16104 | 277/480 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.89 | 1.2 | 1.2 | 75 | Three phase 4 wire WYE |
| ZD16107 | 220/380 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.89 | 1.2 | 1.2 | 75 | Three phase 4 wire WYE |
| ZD16108 | 240/415 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.89 | 1.2 | 1.2 | 75 | Three phase 4 wire WYE |
| 100kA Versions | | | | | | | | | | | | | |
| ZD16200 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.47 | 0.78 | 0.8 | 60 | Split phase 3 wire |
| ZD16201 | 120/208 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.47 | 0.78 | 0.8 | 60 | Three phase 4 wire WYE |
| ZD16202 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | 1.8 | 1.2 | 1.2 | 0.47/0.89 | 0.78/1.2 | 0.8/1.2 | 60/75 | Three phase 4 wire Delta |
| ZD16204 | 277/480 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.89 | 1.2 | 1.2 | 75 | Three phase 4 wire WYE |
| ZD16207 | 220/380 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.89 | 1.2 | 1.2 | 75 | Three phase 4 wire WYE |
| ZD16208 | 240/415 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.89 | 1.2 | 1.2 | 75 | Three phase 4 wire WYE |
| 120kA Versions | | | | | | | | | | | | | |
| ZD16300 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.47 | 0.78 | 0.8 | 60 | Split phase 3 wire |
| ZD16301 | 120/208 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.47 | 0.78 | 0.8 | 60 | Three phase 4 wire WYE |
| ZD16302 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | 1.8 | 1.2 | 1.2 | 0.47/0.89 | 0.78/1.2 | 0.8/1.2 | 60/75 | Three phase 4 wire Delta |
| ZD16304 | 277/480 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.89 | 1.2 | 1.2 | 75 | Three phase 4 wire WYE |
| ZD16307 | 220/380 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.89 | 1.2 | 1.2 | 75 | Three phase 4 wire WYE |
| ZD16308 | 240/415 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.89 | 1.2 | 1.2 | 75 | Three phase 4 wire WYE |
| 160kA Versions | | | | | | | | | | | | | |
| ZD16400 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.43 | 0.65 | 0.7 | 50 | Split phase 3 wire |
| ZD16401 | 120/208 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.43 | 0.65 | 0.7 | 50 | Three phase 4 wire WYE |
| ZD16402 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | 1.8 | 1.2 | 1.2 | 0.43/0.77 | 0.65/1.18 | 0.7/1.2 | 50/68 | Three phase 4 wire Delta |
| ZD16404 | 277/480 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.77 | 1.18 | 1.2 | 68 | Three phase 4 wire WYE |
| ZD16407 | 220/380 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.77 | 1.18 | 1.2 | 68 | Three phase 4 wire WYE |
| ZD16408 | 240/415 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.77 | 1.18 | 1.2 | 68 | Three phase 4 wire WYE |
| 200kA Versions | | | | | | | | | | | | | |
| ZD16500 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.43 | 0.65 | 0.7 | 50 | Split phase 3 wire |
| ZD16501 | 120/208 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.43 | 0.65 | 0.7 | 50 | Three phase 4 wire WYE |
| ZD16502 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | 1.8 | 1.2 | 1.2 | 0.43/0.77 | 0.65/1.18 | 0.7/1.2 | 50/68 | Three phase 4 wire Delta |
| ZD16504 | 277/480 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.77 | 1.18 | 1.2 | 68 | Three phase 4 wire WYE |
| ZD16507 | 220/380 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.77 | 1.18 | 1.2 | 68 | Three phase 4 wire WYE |
| ZD16508 | 240/415 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.77 | 1.18 | 1.2 | 68 | Three phase 4 wire WYE |
| 240kA Versions | | | | | | | | | | | | | |
| ZD16600 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.43 | 0.65 | 0.7 | 50 | Split phase 3 wire |
| ZD16601 | 120/208 | 0.9 | 0.6 | 0.6 | 0.5 | - | - | - | 0.43 | 0.65 | 0.7 | 50 | Three phase 4 wire WYE |
| ZD16602 | 120/240 | 0.9 | 0.6 | 0.6 | 0.5 | 1.8 | 1.2 | 1.2 | 0.43/0.77 | 0.65/1.18 | 0.7/1.2 | 50/68 | Three phase 4 wire Delta |
| ZD16604 | 277/480 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.77 | 1.18 | 1.2 | 68 | Three phase 4 wire WYE |
| ZD16607 | 220/380 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.77 | 1.18 | 1.2 | 68 | Three phase 4 wire WYE |
| ZD16608 | 240/415 | 1.8 | 1.2 | 1.2 | 1 | - | - | - | 0.77 | 1.18 | 1.2 | 68 | Three phase 4 wire WYE |

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