

# Rail Primary Power Surge Protector



## FEATURES

Modular design allows easy replacement of surge modules

Terminals provided within panel

Viewing window for safe inspection

Internal high interrupt capacity fusing for added safety

## SPECIFICATIONS

Table 1/2

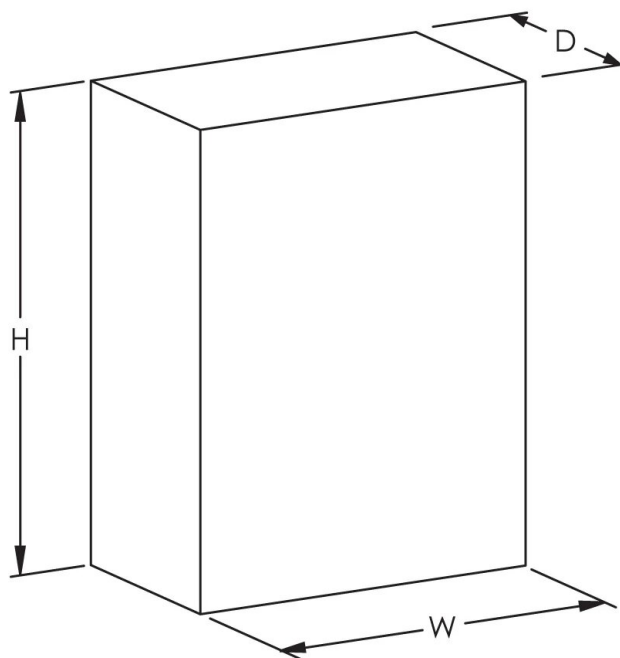
| Catalog Number                           | EPD100HZ120S           | EPD100HZ120V             | EPD100HZ120240V          |
|------------------------------------------|------------------------|--------------------------|--------------------------|
| Nominal System Voltage (Un)              | 120 VAC                | 120 VAC                  | 120/240 V                |
| Max Continuous Operating Voltage (Uc)    | 150 VAC                | 150 VAC                  | 150/300 VAC              |
| Max Discharge Current (Imax), Per Mode   | 15kA 8/20 $\mu$ s      | 15kA 8/20 $\mu$ s        | 15kA 8/20 $\mu$ s        |
| Nominal Discharge Current (In), Per Mode | 40kA 8/20 $\mu$ s      | 40kA 8/20 $\mu$ s        | 40kA 8/20 $\mu$ s        |
| Frequency                                | 0 - 100 Hz             | 0 - 100 Hz               | 0 - 100 Hz               |
| Voltage Protection Level (Up)            | 1200 V @ 15 kA         | 1200 V @ 15 kA           | 1400 V @ 15 kA           |
| Short Circuit Current Rating (SCCR)      | 25kA                   | 25kA                     | 25kA                     |
| Connection, Stranded                     | 2 - 50 mm <sup>2</sup> | 2.5 - 16 mm <sup>2</sup> | 2.5 - 16 mm <sup>2</sup> |
| Protection Modes                         | Differential<br>Common | Differential<br>Common   | Differential<br>Common   |
| Status Indication                        | Mechanical flag        | Mechanical flag          | Mechanical flag          |

| Catalog Number     | EPD100HZ120S                | EPD100HZ120V                | EPD100HZ120240V             |
|--------------------|-----------------------------|-----------------------------|-----------------------------|
| Technology         | MOV with thermal disconnect | MOV with thermal disconnect | MOV with thermal disconnect |
| Humidity           | 0 - 90                      | 0 - 90                      | 0 - 90                      |
| Temperature        | -40 to 80 °C                | -40 to 80 °C                | -40 to 80 °C                |
| Enclosure Material | Metal                       | Metal                       | Metal                       |
| Enclosure Rating   | NEMA®-4                     | NEMA®-4                     | NEMA®-4                     |
| Depth (D)          | 116.84mm                    | 116.84mm                    | 116.84mm                    |

Table 2/2

| Catalog Number | EPD100HZ120S                                                            | EPD100HZ120V                                                            | EPD100HZ120240V                                                         |
|----------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Height (H)     | 203.2 mm                                                                | 203.2 mm                                                                | 203.2 mm                                                                |
| Width (W)      | 292.1 mm                                                                | 292.1 mm                                                                | 292.1 mm                                                                |
| Unit Weight    | 5.35 kg                                                                 | 5.35 kg                                                                 | 5.35 kg                                                                 |
| Complies With  | ANSI®/IEEE® C62.41.2-2002<br>Cat A, Cat B, Cat C<br>AREMA® requirements | ANSI®/IEEE® C62.41.2-2002<br>Cat A, Cat B, Cat C<br>AREMA® requirements | ANSI®/IEEE® C62.41.2-2002<br>Cat A, Cat B, Cat C<br>AREMA® requirements |

## DIAGRAMS



## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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