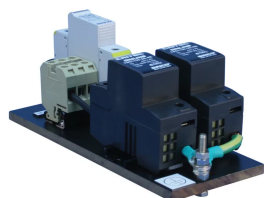


# Rail Diverter Panel



## FEATURES

Effective two-mode surge protection for rail power circuits

Rugged 130 kA triggered spark gaps divert surge currents effectively to earth, ensuring long product service life

Fine line-to-line protection clamps damaging voltage transients ensuring effective protection of your sensitive equipment

Line-to-line protection features separate plug and base design that facilitates replacement of a failed surge module

Separate line and equipment terminals reduce effective lead length, thus reducing let-through voltage

## SPECIFICATIONS

| Catalog Number                        | RDP120V                                                                            | RDP240V                                                                             |
|---------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Nominal System Voltage (Un)           | 100 - 120 VAC                                                                      | 220 - 240 V                                                                         |
| Max Continuous Operating Voltage (Uc) | 150 VAC L-L<br>440 VAC L-PE                                                        | 275 VAC L-L<br>440 VAC L-PE                                                         |
| Voltage Protection Level (Up)         | 480 V @ 3 kA L-L<br>700 V @ 20 kA L-L<br>1500 V @ 3 kA L-PE<br>2300 V @ 20 kA L-PE | 850 V @ 3 kA L-L<br>1400 V @ 20 kA L-L<br>1500 V @ 3 kA L-PE<br>2300 V @ 20 kA L-PE |
| Max Discharge Current (Imax), L-L     | 40kA 8/20 $\mu$ s                                                                  | 40kA 8/20 $\mu$ s                                                                   |
| Max Discharge Current (Imax), L-PE    | 130kA 8/20 $\mu$ s                                                                 | 130kA 8/20 $\mu$ s                                                                  |
| Impulse Current (Iimp), L-PE          | 50kA 10/350 $\mu$ s                                                                | 50kA 10/350 $\mu$ s                                                                 |
| Max Operating Current, L-L            | 1mA                                                                                | 1mA                                                                                 |
| Max Operating Current, L-PE           | 1 $\mu$ A                                                                          | 1 $\mu$ A                                                                           |
| Frequency                             | 50 - 60 Hz                                                                         | 50 - 60 Hz                                                                          |

| Catalog Number                               | RDP120V                                                                                                                             | RDP240V                                                                                                                             |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Protection Modes                             | L-L<br>L-PE                                                                                                                         | L-L<br>L-PE                                                                                                                         |
| Technology                                   | Metal Oxide Varistor (MOV)<br>Triggered Spark Gap                                                                                   | Metal Oxide Varistor (MOV)<br>Triggered Spark Gap                                                                                   |
| Distribution System                          | TT<br>TN-C                                                                                                                          | TT<br>TN-C                                                                                                                          |
| Follow Current Extinguishing Capability @ Un | 43kA                                                                                                                                | 43kA                                                                                                                                |
| Status Indication                            | Mechanical flag                                                                                                                     | Mechanical flag                                                                                                                     |
| Temperature                                  | -40 to 80 °C                                                                                                                        | -40 to 80 °C                                                                                                                        |
| Humidity                                     | 0 - 90                                                                                                                              | 0 - 90                                                                                                                              |
| Complies With                                | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C<br>ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C<br>ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs |
| Replacement Module                           | DSD140M150                                                                                                                          | DSD140M275                                                                                                                          |
| Replacement Part                             | TSG11302SNE                                                                                                                         | TSG11302SNE                                                                                                                         |

## 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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