

# Surge Diverter, 24/48 DC



## FEATURES

40 kA 8/20µs surge rating per mode, 80 kA per line, 120 kA total per pair

Suitable for exposed DC wiring

Indication flag provides clear visual indication of life status

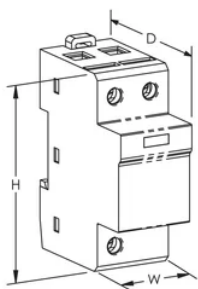
Suitable for both 24 VDC and 48 VDC distribution systems

## SPECIFICATIONS

| Catalog Number                             | DSD1402BR24/48              |
|--------------------------------------------|-----------------------------|
| Article Number                             | 702750                      |
| Nominal System Voltage (Un)                | 0 - 48 VDC                  |
| Max Continuous Operating Voltage (Uc)      | 60 VAC<br>60 VDC            |
| Max Discharge Current (Imax), Per Mode     | 40kA 8/20 µs                |
| Nominal Discharge Current (In)             | 20kA 8/20 µs                |
| Voltage Protection Level (Up), + to - @ In | 600V                        |
| Voltage Protection Level (Up), L-N         | 280 V @ 3 kA                |
| Frequency                                  | 0 - 60 Hz                   |
| Protection Modes                           | Common<br>Differential      |
| Short Circuit Current Rating (SCCR)        | 25kA                        |
| Technology                                 | MOV with thermal disconnect |

| Catalog Number       | DSD1402BR24/48                                                                                                                                                |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection, Solid    | 35 mm <sup>2</sup> Max                                                                                                                                        |
| Connection, Stranded | 25 mm <sup>2</sup> Max                                                                                                                                        |
| Mounting             | 35 mm top hat DIN rail                                                                                                                                        |
| Enclosure Material   | UL® 94V-0 Thermoplastic                                                                                                                                       |
| Enclosure Rating     | IP 20<br>NEMA®-1                                                                                                                                              |
| Status Indication    | Mechanical flag                                                                                                                                               |
| Terminal Torque      | 3.5 N·m Max                                                                                                                                                   |
| Remote Contacts      | Yes                                                                                                                                                           |
| Temperature          | -40 to 80 °C                                                                                                                                                  |
| Module Width         | 2 M                                                                                                                                                           |
| Depth (D)            | 68mm                                                                                                                                                          |
| Height (H)           | 90 mm                                                                                                                                                         |
| Width (W)            | 36 mm                                                                                                                                                         |
| Unit Weight          | 0.15 kg                                                                                                                                                       |
| Complies With        | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C<br>ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 2, 20 kA<br>8/20 µs, 2 kA 10/350 µs<br>IEC® 61643-1 Class II |

## 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.

#### North America

+1.800.753.9221

Option 1 – Customer Care

Option 2 – Technical

Support

#### Europe

Netherlands:

+31 800-0200135

France:

+33 800 901 793

#### Europe

Germany:

800 1890272

Other Countries:

+31 13 5835404

#### APAC

Shanghai:

+ 86 21 2412 1618/19

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