

# Surge Diverter, 20 kA Single Mode DC



## CERTIFICATIONS



## FEATURES

General purpose barrier protection of 12 or 24 VDC systems and equipment

Large surge rating to 20 kA 8/20μs suitable for exposed DC wiring

Two stage protection suitable for the protection of power supply feeds

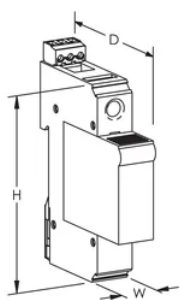
High series current rating of 10 A

## SPECIFICATIONS

| Catalog Number                        | DSD1201S12   | DSD1201S24   |
|---------------------------------------|--------------|--------------|
| Article Number                        | 702670       | 702680       |
| Nominal System Voltage (Un)           | 12 VDC       | 24 VDC       |
| Max Continuous Operating Voltage (Uc) | 15 VDC       | 28 VDC       |
| Nominal Discharge Current (In)        | 10kA 8/20 μs | 10kA 8/20 μs |
| Max Discharge Current (Imax)          | 20kA 8/20 μs | 20kA 8/20 μs |
| Voltage Protection Level (Up), L-L    | 30 V @ 3 kA  | 40 V @ 3 kA  |
| Rated Load Current (IL)               | 10A          | 10A          |

| Catalog Number       | DSD1201S12                                                | DSD1201S24                                                |
|----------------------|-----------------------------------------------------------|-----------------------------------------------------------|
| Protection Modes     | Common<br>Differential                                    | Common<br>Differential                                    |
| Technology           | Gas Discharge Tube (GDT)<br>Silicon Avalanche Diode (SAD) | Gas Discharge Tube (GDT)<br>Silicon Avalanche Diode (SAD) |
| Connection, Solid    | 6 mm <sup>2</sup> Max                                     | 6 mm <sup>2</sup> Max                                     |
| Connection, Stranded | 6 mm <sup>2</sup> Max                                     | 6 mm <sup>2</sup> Max                                     |
| Loop Resistance      | 0.5 $\Omega$                                              | 0.5 $\Omega$                                              |
| Mounting             | 35 mm top hat DIN rail                                    | 35 mm top hat DIN rail                                    |
| Enclosure Material   | UL® 94V-0 Thermoplastic                                   | UL® 94V-0 Thermoplastic                                   |
| Enclosure Rating     | IP 20<br>NEMA®-1                                          | IP 20<br>NEMA®-1                                          |
| Remote Contacts      | No                                                        | No                                                        |
| Terminal Torque      | 2.5 N·m Max                                               | 2.5 N·m Max                                               |
| Temperature          | -40 to 80 °C                                              | -40 to 80 °C                                              |
| Module Width         | 1 M                                                       | 1 M                                                       |
| Depth (D)            | 68mm                                                      | 68mm                                                      |
| Height (H)           | 90 mm                                                     | 90 mm                                                     |
| Width (W)            | 18 mm                                                     | 18 mm                                                     |
| Unit Weight          | 0.13 kg                                                   | 0.13 kg                                                   |
| Complies With        | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C             | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C             |
| Replacement Module   | DSD1201S12M                                               | DSD1201S24M                                               |

## 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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