

# Surge Diverter, 100 kA Single Mode



## CERTIFICATIONS



## FEATURES

100 kA 8/20  $\mu$ s maximum surge rating provides protection suitable for smaller main-distribution panels and an extended operational life

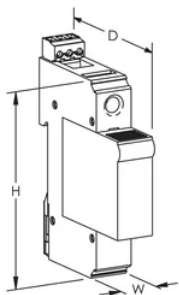
Indication flag provides clear visual indication of life status

## SPECIFICATIONS

| Catalog Number                        | DSD11001S275                   |
|---------------------------------------|--------------------------------|
| Article Number                        | 702440                         |
| Nominal System Voltage (Un)           | 220 - 240 V                    |
| Max Continuous Operating Voltage (Uc) | 275 VAC<br>350 VDC             |
| Max Discharge Current (Imax)          | 100kA 8/20 $\mu$ s             |
| Nominal Discharge Current (In)        | 40kA 8/20 $\mu$ s              |
| Voltage Protection Level (Up)         | 850 V @ 3 kA<br>1600 V @ 40 kA |
| Voltage Protection Level (Up) @ In    | 1600V                          |

| Catalog Number                      | DSD11001S275                                                                                                                                                             |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Impulse Current (Iimp)              | 12kA 10/350 µs                                                                                                                                                           |
| Distribution System                 | TN-C<br>TN-C-S<br>TN-S<br>TT                                                                                                                                             |
| Frequency                           | 0 - 60 Hz                                                                                                                                                                |
| Protection Modes                    | Single                                                                                                                                                                   |
| Short Circuit Current Rating (SCCR) | 25kA                                                                                                                                                                     |
| Technology                          | MOV with thermal disconnect                                                                                                                                              |
| 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                                                                                                                                                         |
| Remote Contacts                     | No                                                                                                                                                                       |
| Status Indication                   | Mechanical flag                                                                                                                                                          |
| Terminal Torque                     | 3.5 N·m Max                                                                                                                                                              |
| Module Width                        | 1 M                                                                                                                                                                      |
| Temperature                         | -40 to 80 °C                                                                                                                                                             |
| Depth (D)                           | 68mm                                                                                                                                                                     |
| Height (H)                          | 90 mm                                                                                                                                                                    |
| Width (W)                           | 18 mm                                                                                                                                                                    |
| Unit Weight                         | 0.13 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 3, 100 kA<br>8/20 µs, 10 kA 10/350 µs<br>IEC® 61643-1 Class I, 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.

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