

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 $8/20\mu s$ 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 Differential | Common Differential |
| Technology | Gas Discharge Tube (GDT) Silicon Avalanche Diode (SAD) | Gas Discharge Tube (GDT) Silicon Avalanche Diode (SAD) |
| Connection, Solid | 6 mm² Max | 6 mm² Max |
| Connection, Stranded | 6 mm² Max | 6 mm² Max |
| Loop Resistance | 0.5 Ω | 0.5 Ω |
| 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 NEMA®-1 | IP 20 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 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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