

# Service Entrance Suppressor with Triggered Spark Gap, 200 kA



## FEATURES

Primary protection suitable for high exposure sites and point-of-entry facility protection

Modular design allows easy replacement of surge modules

Five segment electronic status indication displays percentage of capacity remaining

Lug connection allows Kelvin (in and out) connection of large cables

Transient Discriminating (TD) Technology provides increased service life

## SPECIFICATIONS

| Catalog Number                           | TDSMPM277              |
|------------------------------------------|------------------------|
| Article Number                           | 700250                 |
| Nominal System Voltage (Un)              | 240/415 V<br>277/480 V |
| Distribution System                      | 3Ph Y 4W+G             |
| Max Continuous Operating Voltage (Uc)    | 400/692 VAC            |
| Stand-off Voltage, L-N                   | 480/831 V              |
| Stand-off Voltage, N-PE                  | 440 V                  |
| Frequency                                | 50 - 60 Hz             |
| Nominal Discharge Current (In), Per Mode | 80kA 8/20 $\mu$ s      |
| Max Discharge Current (Imax), L-N        | 100kA 8/20 $\mu$ s     |

| Catalog Number                                  | TDSMPM277                                                                          |
|-------------------------------------------------|------------------------------------------------------------------------------------|
| Max Discharge Current (I <sub>max</sub> ), N-PE | 130kA 8/20 µs                                                                      |
| Impulse Current (I <sub>imp</sub> ), L-N        | 20kA 10/350 µs                                                                     |
| Impulse Current (I <sub>imp</sub> ), N-PE       | 50kA 10/350 µs                                                                     |
| Aggregate Surge Rating                          | 200                                                                                |
| Back-Up Overcurrent Protection                  | 100A                                                                               |
| Max Operating Current                           | 25mA                                                                               |
| Protection Modes                                | All modes protected                                                                |
| Status Indication                               | 5 segment LED bar graph per phase                                                  |
| System Compatibility                            | TN-C<br>TN-C-S<br>TN-S<br>TT                                                       |
| Technology, L-N                                 | TD<br>MOV/Silicon                                                                  |
| Technology, N-PE                                | Triggered Spark Gap                                                                |
| Voltage Protection Level (Up)                   | 750 V @ 3 kA L-N<br>1500 V @ 3 kA N-PE<br>980 V @ 20 kA L-N<br>2300 V @ 20 kA N-PE |
| Lead Size                                       | 16 mm <sup>2</sup> Max                                                             |
| Temperature                                     | -35 to 55 °C                                                                       |
| Enclosure Material                              | Metal                                                                              |
| Enclosure Rating                                | IP 33<br>NEMA®-3R                                                                  |
| Mounting                                        | Wall mount                                                                         |
| Unit Weight                                     | 5 kg                                                                               |
| Complies With                                   | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C                                      |
| Depth                                           | 170mm                                                                              |
| Height                                          | 306 mm                                                                             |
| Width                                           | 241 mm                                                                             |

## 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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