

# Transient Discriminating MOVTEC



## CERTIFICATIONS



## FEATURES

Transient Discriminating (TD) Technology provides increased service life

Built-in features include TD Technology, thermal protection and short circuit current fusing

LED status indication and voltage-free contacts provide remote status monitoring

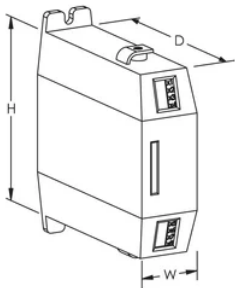
100 kA 8/20  $\mu$ s maximum surge rating provides protection suitable for smaller main-distribution panels and an extended operational life

## SPECIFICATIONS

| Catalog Number                           | TDSMT277          | TDSMT120          |
|------------------------------------------|-------------------|-------------------|
| Article Number                           | 700230            | 700725            |
| Nominal System Voltage (Un)              | 230 - 277 V       | 110 - 120 V       |
| Nominal Discharge Current (In), Per Mode | 80kA 8/20 $\mu$ s | 80kA 8/20 $\mu$ s |
| Max Continuous Operating Voltage (Uc)    | 400 VAC           | 170 VAC           |
| Stand-off Voltage                        | 480 V             | 240 V             |
| Frequency                                | 50 - 60 Hz        | 50 - 60 Hz        |

| Catalog Number                                      | TDSMT277                                                                                                                            | TDSMT120                                                                                                                            |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Connection, Stranded                                | 16 mm <sup>2</sup> Max                                                                                                              | 16 mm <sup>2</sup> Max                                                                                                              |
| Impulse Current (I <sub>imp</sub> )                 | 20kA 10/350 μs                                                                                                                      | 20kA 10/350 μs                                                                                                                      |
| Max Discharge Current (I <sub>max</sub> ), Per Mode | 100kA 8/20 μs                                                                                                                       | 100kA 8/20 μs                                                                                                                       |
| Voltage Protection Rating (VPR)                     | 700 V @ 3 kA<br>980 V @ 20 kA                                                                                                       | 400 V @ 3 kA<br>760 V @ 20 kA                                                                                                       |
| Aggregate Surge Rating                              | 200                                                                                                                                 | 200                                                                                                                                 |
| Back-Up Overcurrent Protection                      | 100A                                                                                                                                | 100A                                                                                                                                |
| Max Operating Current                               | 25mA                                                                                                                                | 25mA                                                                                                                                |
| Protection Modes                                    | Single                                                                                                                              | Single                                                                                                                              |
| Status Indication                                   | 5 segment LED bar graph per phase                                                                                                   | 5 segment LED bar graph per phase                                                                                                   |
| Technology                                          | TD technology with thermal disconnect                                                                                               | TD technology with thermal disconnect                                                                                               |
| Temperature                                         | -35 to 55 °C                                                                                                                        | -35 to 55 °C                                                                                                                        |
| Enclosure Material                                  | UL® 94V-0 Thermoplastic                                                                                                             | UL® 94V-0 Thermoplastic                                                                                                             |
| Enclosure Rating                                    | IP 20<br>NEMA®-1                                                                                                                    | IP 20<br>NEMA®-1                                                                                                                    |
| Depth (D)                                           | 140mm                                                                                                                               | 140mm                                                                                                                               |
| Height (H)                                          | 150 mm                                                                                                                              | 150 mm                                                                                                                              |
| Width (W)                                           | 45 mm                                                                                                                               | 45 mm                                                                                                                               |
| Unit Weight                                         | 0.6 kg                                                                                                                              | 0.6 kg                                                                                                                              |
| Certification Details                               | UL® 1449 Edition 3 Recognized<br>Component Type 2                                                                                   | UL® 1449 Edition 3 Recognized<br>Component Type 2                                                                                   |
| 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 8/20 μs, 10 kA 10/350 μs | 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 8/20 μs, 10 kA 10/350 μs |

## 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  
Sydney:  
+61 2 9751 8500



Our powerful portfolio of brands:

**CADDY   ERICO   HOFFMAN   ILSCO   SCHROFF   TRACHTE**