

# Modular TDX Panel Protector, 300 kA



## CERTIFICATIONS



## FEATURES

Transient Discriminating (TD) Technology provides increased service life

Modular design allows easy replacement of surge modules

Built-in features include TD Technology, thermal protection, short circuit current cartridge fusing and a surge counter

Status indication flag per mode, voltage presence LEDs, audible alarm and voltage-free contacts providing remote status monitoring

300 kA 8/20  $\mu$ s maximum surge rating provides protection suitable for service entrance, main-distribution panels and highly exposed applications

## SPECIFICATIONS

| Catalog Number                        | <b>TDX300S277/480T</b>            |
|---------------------------------------|-----------------------------------|
| Nominal System Voltage (Un)           | 277/480 V                         |
| Distribution System                   | 3Ph 4W+G (suitable for TT system) |
| Max Continuous Operating Voltage (Uc) | 320/550 VAC                       |
| Stand-off Voltage                     | 480/831 V                         |
| Frequency                             | 50 - 60 Hz                        |

| Catalog Number                          | TDX300S277/480T                                                                                                         |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Short Circuit Current Rating (SCCR)     | 200kA                                                                                                                   |
| Nominal Discharge Current (In), IEC     | 40kA 8/20 μs                                                                                                            |
| Nominal Discharge Current (In), UL      | 20kA 8/20 μs                                                                                                            |
| Max Discharge Current (Imax), Per Phase | 300kA 8/20 μs                                                                                                           |
| Impulse Current (Iimp), Per Mode        | 25kA 10/350 μs                                                                                                          |
| Voltage Protection Rating (VPR), L-N    | 1200 V @ 3 kA                                                                                                           |
| Protection Modes                        | L-N<br>N-PE                                                                                                             |
| Status Indication                       | LED<br>Mechanical flag<br>Audible alarm                                                                                 |
| Surge Counter                           | Yes                                                                                                                     |
| Technology                              | TD technology with thermal disconnect<br>Over-current replaceable cartridge fusing                                      |
| Remote Contacts                         | Yes                                                                                                                     |
| Lead Length                             | 30"                                                                                                                     |
| Lead Size imperial                      | #10                                                                                                                     |
| Ground Lead Length                      | 36"                                                                                                                     |
| Temperature                             | -40 to 176 °F                                                                                                           |
| Enclosure Material                      | Metal                                                                                                                   |
| Enclosure Rating                        | IP 20<br>NEMA®-12/3R                                                                                                    |
| Mounting                                | 3/4" straight nipple                                                                                                    |
| Depth (D)                               | 3 1/4"                                                                                                                  |
| Height (H)                              | 10.4"                                                                                                                   |
| Width (W)                               | 10.32"                                                                                                                  |
| Unit Weight                             | 13 lb                                                                                                                   |
| Certification Details                   | UL® 1449 Edition 5 Type 1/2, 20 kA Mode                                                                                 |
| Complies With                           | 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 |
| Replacement Module                      | TDS150M277<br>SGD125M                                                                                                   |

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



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