

# Compact TDX Panel Protector, 50 kA



## CERTIFICATIONS



## FEATURES

Transient Discriminating (TD) Technology provides increased service life

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

Compact NEMA®-4 enclosure design can be flush mounted or installed in a small space

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

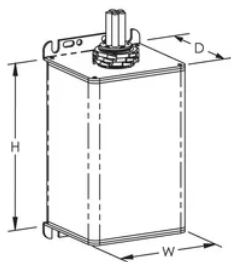
50kA 8/20µs maximum surge rating provides protection suitable for sub-distribution panels and a long operational life

## SPECIFICATIONS

| Catalog Number                        | <b>TDX50C277/480</b> |
|---------------------------------------|----------------------|
| Nominal System Voltage (Un)           | 277/480 V            |
| Distribution System                   | 3Ph 4W+G             |
| Max Continuous Operating Voltage (Uc) | 320/550 VAC          |
| Stand-off Voltage                     | 480/831 VAC          |
| Frequency                             | 50 - 60 Hz           |
| Short Circuit Current Rating (SCCR)   | 200kA                |

| Catalog Number                          | TDX50C277/480                                                                                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal Discharge Current (In), IEC     | 40kA 8/20 µs                                                                                                                                           |
| Nominal Discharge Current (In), UL      | 10kA 8/20 µs                                                                                                                                           |
| Max Discharge Current (Imax), Per Phase | 50kA 8/20 µs                                                                                                                                           |
| Voltage Protection Rating (VPR), L-N    | 1200 V @ 3 kA<br>1800 V @ 20 kA                                                                                                                        |
| Protection Modes                        | L-N<br>L-PE<br>N-PE                                                                                                                                    |
| Remote Contacts                         | Yes                                                                                                                                                    |
| Status Indication                       | LED                                                                                                                                                    |
| Surge Counter                           | No                                                                                                                                                     |
| Technology                              | Over-current fusing<br>TD technology with thermal disconnect                                                                                           |
| Lead Size                               | 5.26 mm <sup>2</sup>                                                                                                                                   |
| Lead Length                             | 762mm                                                                                                                                                  |
| Ground Lead Length                      | 914mm                                                                                                                                                  |
| Temperature                             | -40 to 80 °C                                                                                                                                           |
| Enclosure Material                      | Metal                                                                                                                                                  |
| Enclosure Rating                        | IP 65<br>NEMA®-4                                                                                                                                       |
| Mounting                                | 3/4" straight nipple                                                                                                                                   |
| Depth (D)                               | 78mm                                                                                                                                                   |
| Height (H)                              | 153 mm                                                                                                                                                 |
| Width (W)                               | 84 mm                                                                                                                                                  |
| Unit Weight                             | 0.7 kg                                                                                                                                                 |
| Certification Details                   | UL® 1449 Edition 5 Type 1/2, 10 kA Mode                                                                                                                |
| Complies With                           | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C<br>ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 2, 50 kA<br>8/20 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.

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