

# MODULAR TDX PANEL PROTECTOR, 100 KA, 240 VAC UN, 3PHΔ 3W+G DISTRIBUTION SYSTEM

## CATALOG NUMBER

**TDX100M240D**



## 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 and short circuit current fusing

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

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

100 kA 8/20 μs maximum surge rating provides protection suitable for main-distribution panels and an extended operational life

## PRODUCT ATTRIBUTES

Service Configuration: Delta

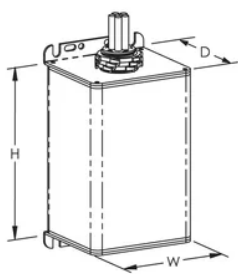
Nominal System Voltage (Un): 240 VAC

Distribution System: 3PhΔ 3W+G

Max Continuous Operating Voltage (Uc): 276 VAC

|                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stand-off Voltage: 415 VAC                                                                                                                                                               |
| Frequency: 50 – 60 Hz                                                                                                                                                                    |
| Protection Modes: L-N; L-PE; N-PE                                                                                                                                                        |
| Short Circuit Current Rating (SCCR): 200 kA                                                                                                                                              |
| Nominal Discharge Current (In), IEC: 40 kA 8/20 -s                                                                                                                                       |
| Nominal Discharge Current (In), UL: 20 kA 8/20 -s                                                                                                                                        |
| Max Discharge Current (Imax), Per Phase: 100 kA 8/20 $\mu$ s                                                                                                                             |
| Impulse Current (Iimp), Per Mode: 12.5 kA 10/350 $\mu$ s                                                                                                                                 |
| Voltage Protection Rating (VPR), L-L: 1000 V @ 3 kA V; 1800 V @ 20 kA V                                                                                                                  |
| Status Indication: LED; Mechanical flag; Audible alarm                                                                                                                                   |
| Surge Counter: No                                                                                                                                                                        |
| Technology: TD technology with thermal disconnect; Over-current replaceable cartridge fusing                                                                                             |
| Remote Contacts: Yes                                                                                                                                                                     |
| Lead Size: #10                                                                                                                                                                           |
| Ground Lead Length: 36"                                                                                                                                                                  |
| Temperature: -40 to 176 °F                                                                                                                                                               |
| Enclosure Material: Metal                                                                                                                                                                |
| Enclosure Rating: IP 65; NEMA®-4                                                                                                                                                         |
| Mounting: 3/4" straight nipple                                                                                                                                                           |
| Depth: 3.07"                                                                                                                                                                             |
| Height: 9.45"                                                                                                                                                                            |
| Width: 3.31"                                                                                                                                                                             |
| Unit Weight: 3.1 lb                                                                                                                                                                      |
| Certification Details: UL® 1449 Edition 5 Type 1/2, 20 kA Mode                                                                                                                           |
| Complies With: ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C;ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 $\mu$ s, 10 kA 10/350 $\mu$ s;IEC® 61643-1 Class I, Class II |
| Replacement Module: TDS150M240                                                                                                                                                           |

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.

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