

# MODULAR TDX PANEL PROTECTOR, 100 KA WITH SURGE COUNTER, 277/480 V UN, 3PH 4W+G DISTRIBUTION SYSTEM

## CATALOG NUMBER

**TDX100S277480**



## 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  $\mu$ s maximum surge rating provides protection suitable for main-distribution panels and an extended operational life

## PRODUCT ATTRIBUTES

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): 200 kA

Nominal Discharge Current (In), IEC: 40 kA 8/20  $\mu$ s

Nominal Discharge Current (In), UL: 20 kA 8/20  $\mu$ 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-N: 1,200 V @ 3 kA; 1,800 V @ 20 kA

Protection Modes: L-N; L-PE; N-PE

Status Indication: LED; Mechanical flag; Audible alarm

Surge Counter: Yes

Technology: TD technology with thermal disconnect; Over-current replaceable cartridge fusing; EMI/RFI filter

Remote Contacts: Yes

Lead Length: 30"

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 (D): 3.070"

Height (H): 9.450"

Width (W): 3.310"

Unit Weight: 3.100 lb

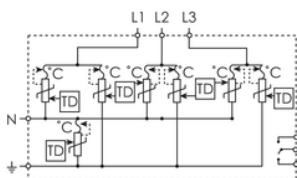
Certification Details: UL® 1449 Edition 5 Type 2, 20 kA Mode

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: TDS150M277

## DIAGRAMS

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## WARNING

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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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