

Modular TDX Panel Protector, 100 kA



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 μ s maximum surge rating provides protection suitable for main-distribution panels and an extended operational life



SPECIFICATIONS

Table 1/2

Catalog Number	TDX100M277/480TT
Nominal System Voltage (Un)	277/480 V
Distribution System	3Ph 4W+G (suitable for TT system)

Catalog Number	TDX100M277/480TT
Max Continuous Operating Voltage (Uc)	320/550 VAC
Stand-off Voltage	480/831 VAC
Frequency	50 - 60 Hz
Protection Modes	L-N N-PE
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	100kA 8/20 µs
Impulse Current (Iimp), Per Mode	12.5kA 10/350 µs
Voltage Protection Rating (VPR), L-N	1200 V @ 3 kA 1800 V @ 20 kA
Impulse Current (Iimp), N-PE	25kA 10/350 µs
Status Indication	LED Mechanical flag Audible alarm
Surge Counter	No
Technology	TD technology with thermal disconnect Over-current replaceable cartridge fusing EMI/RFI filter
Remote Contacts	Yes
Lead Length	762mm
Lead Size	5.26 mm ²

Table 2/2

Catalog Number	TDX100M277/480TT
Ground Lead Length	914mm
Temperature	-40 to 80 °C
Enclosure Material	Metal
Enclosure Rating	IP 65 NEMA®-4
Mounting	3/4" straight nipple
Depth (D)	78mm
Height (H)	240 mm
Width (W)	84 mm
Unit Weight	1.41 kg
Certification Details	UL® 1449 Edition 5 Type 1/2, 20 kA Mode

Catalog Number	TDX100M277/480TT
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 μ s, 10 kA 10/350 μ s IEC® 61643-1 Class I, Class II
Replacement Module	TDS150M277 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 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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