

# MODULAR TDX PANEL PROTECTOR, 100 KA WITH SURGE COUNTER



## 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

## SPECIFICATIONS

Table 1/5						
Catalog Number	Nominal System Voltage (Un)	Max Continuous Operating Voltage (Uc)	Stand-off Voltage	Distribution System	Nominal Discharge Current (In), IEC	Impulse Current (Iimp), Per Mode
TDX100S120240	120/240 V	170/276 VAC	240/480 VAC	1Ph 3W+G	40 kA 8/20 µs	12.5 kA 10/350 µs

Table 2/5

Catalog Number	Voltage Protection Rating (VPR), L-N	Frequency	Nominal Discharge Current (In), UL	Surge Counter	Short Circuit Current Rating (SCCR)	Technology
TDX100S120240	600 V @ 3 kA, 1,200 V @ 20 kA	50 – 60 Hz	20 kA 8/20 $\mu$ s	Yes	200 kA	TD technology with thermal disconnect, Over-current replaceable cartridge fusing, EMI/RFI filter

Table 3/5

Catalog Number	Protection Modes	Lead Size	Lead Length	Ground Lead Length	Temperature	Mounting
TDX100S120240	L-N, L-PE, N-PE	5.26 mm <sup>2</sup>	762 mm	914 mm	-40 to 80 °C	3/4" straight nipple

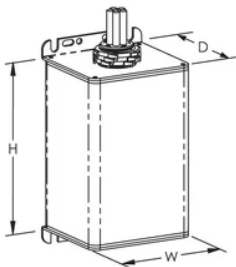
Table 4/5

Catalog Number	Status Indication	Remote Contacts	Enclosure Rating	Height (H)	Width (W)	Unit Weight
TDX100S120240	LED, Mechanical flag, Audible alarm	Yes	IP 65, NEMA®-4	240 mm	84 mm	1.410 kg

Table 5/5

Catalog Number	Certification Details	Replacement Module
TDX100S120240	UL® 1449 Edition 5 Type 2, 20 kA Mode	TDS150M150

## 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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