

Modular TDX Panel Protector, 300 kA



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, short circuit current cartridge fusing and a surge counter

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

300 kA 8/20 μ s maximum surge rating provides protection suitable for service entrance, main-distribution panels and highly exposed applications

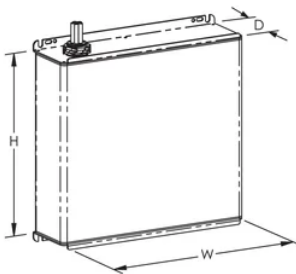
SPECIFICATIONS

Catalog Number	TDX300S120/240	TDX300S120/208	TDX300S277/480	TDX300S277/480T
Nominal System Voltage (Un)	120/240 V	120/208 V	277/480 V	277/480 V
Distribution System	1Ph 3W+G	3Ph 4W+G	3Ph 4W+G	3Ph 4W+G (suitable for TT system)
Max Continuous Operating Voltage (Uc)	170/276 VAC	170/276 VAC	320/550 VAC	320/550 VAC

Catalog Number	TDX300S120/240	TDX300S120/208	TDX300S277/480	TDX300S277/480T
Stand-off Voltage	240/480 V	240/415 V	480/831 V	480/831 V
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Short Circuit Current Rating (SCCR)	200kA	200kA	200kA	200kA
Nominal Discharge Current (In), IEC	40kA 8/20 μ s	40kA 8/20 μ s	40kA 8/20 μ s	40kA 8/20 μ s
Nominal Discharge Current (In), UL	20kA 8/20 μ s	20kA 8/20 μ s	20kA 8/20 μ s	20kA 8/20 μ s
Max Discharge Current (Imax), Per Phase	300kA 8/20 μ s	300kA 8/20 μ s	300kA 8/20 μ s	300kA 8/20 μ s
Impulse Current (Iimp), Per Mode	25kA 10/350 μ s	25kA 10/350 μ s	25kA 10/350 μ s	25kA 10/350 μ s
Voltage Protection Rating (VPR), L-N	800 V @ 3 kA	800 V @ 3 kA	1200 V @ 3 kA	1200 V @ 3 kA
Protection Modes	L-N L-PE N-PE	L-N L-PE N-PE	L-N L-PE N-PE	L-N N-PE
Status Indication	LED Mechanical flag Audible alarm	LED Mechanical flag Audible alarm	LED Mechanical flag Audible alarm	LED Mechanical flag Audible alarm
Surge Counter	Yes	Yes	Yes	Yes
Technology	TD technology with thermal disconnect Over-current replaceable cartridge fusing	TD technology with thermal disconnect Over-current replaceable cartridge fusing	TD technology with thermal disconnect Over-current replaceable cartridge fusing	TD technology with thermal disconnect Over-current replaceable cartridge fusing
Remote Contacts	Yes	Yes	Yes	Yes
Lead Length	762mm	762mm	762mm	762mm
Lead Size	5.26 mm ²	5.26 mm ²	5.26 mm ²	5.26 mm ²
Ground Lead Length	914mm	914mm	914mm	914mm
Temperature	-40 to 80 °C	-40 to 80 °C	-40 to 80 °C	-40 to 80 °C
Enclosure Material	Metal	Metal	Metal	Metal
Enclosure Rating	IP 20 NEMA®-12/3R	IP 20 NEMA®-12/3R	IP 20 NEMA®-12/3R	IP 20 NEMA®-12/3R
Mounting	3/4" straight nipple	3/4" straight nipple	3/4" straight nipple	3/4" straight nipple
Depth (D)	83mm	83mm	83mm	83mm
Height (H)	260 mm	260 mm	260 mm	260 mm
Width (W)	257 mm	257 mm	257 mm	257 mm
Unit Weight	5.9 kg	5.9 kg	5.9 kg	5.9 kg

Catalog Number	TDX300S120/240	TDX300S120/208	TDX300S277/480	TDX300S277/480T
Certification Details	UL® 1449 Edition 5 Type 1/2, 20 kA Mode	UL® 1449 Edition 5 Type 1/2, 20 kA Mode	UL® 1449 Edition 5 Type 1/2, 20 kA Mode	UL® 1449 Edition 5 Type 1/2, 20 kA Mode
Complies With	ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs IEC® 61643-1 Class I, Class II	ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs IEC® 61643-1 Class I, Class II	ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs IEC® 61643-1 Class I, Class II	ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs IEC® 61643-1 Class I, Class II
Replacement Module	TDS150M150	TDS150M150	TDS150M277	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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