

Compact TDX Panel Protector, 50 kA



CERTIFICATIONS



FEATURES

Transient Discriminating (TD) Technology provides increased service life

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

LED status indication and voltage-free contacts provide remote status monitoring

50kA 8/20µs maximum surge rating provides protection suitable for sub-distribution panels and a long operational life

SPECIFICATIONS

Catalog Number	TDX50C120/208	TDX50C277/480
Nominal System Voltage (Un)	120/208 V	277/480 V
Distribution System	3Ph 4W+G	3Ph 4W+G
Max Continuous Operating Voltage (Uc)	170/276 VAC	320/550 VAC
Stand-off Voltage	240/415 VAC	480/831 VAC
Frequency	50 - 60 Hz	50 - 60 Hz
Short Circuit Current Rating (SCCR)	200kA	200kA

Catalog Number	TDX50C120/208	TDX50C277/480
Nominal Discharge Current (In), IEC	40kA 8/20 μ s	40kA 8/20 μ s
Nominal Discharge Current (In), UL	10kA 8/20 μ s	10kA 8/20 μ s
Max Discharge Current (Imax), Per Phase	50kA 8/20 μ s	50kA 8/20 μ s
Voltage Protection Rating (VPR), L-N	600 V @ 3 kA 1200 V @ 20 kA	1200 V @ 3 kA 1800 V @ 20 kA
Protection Modes	L-N L-PE N-PE	L-N L-PE N-PE
Remote Contacts	Yes	Yes
Status Indication	LED	LED
Surge Counter	No	No
Technology	Over-current fusing TD technology with thermal disconnect	Over-current fusing TD technology with thermal disconnect
Lead Size	5.26 mm ²	5.26 mm ²
Lead Length	762mm	762mm
Ground Lead Length	914mm	914mm
Temperature	-40 to 80 °C	-40 to 80 °C
Enclosure Material	Metal	Metal
Enclosure Rating	IP 65 NEMA®-4	IP 65 NEMA®-4
Mounting	3/4" straight nipple	3/4" straight nipple
Depth (D)	78mm	78mm
Height (H)	153 mm	153 mm
Width (W)	84 mm	84 mm
Unit Weight	0.7 kg	0.7 kg
Certification Details	UL® 1449 Edition 5 Type 1/2, 10 kA Mode	UL® 1449 Edition 5 Type 1/2, 10 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 2, 50 kA 8/20 μ s IEC® 61643-1 Class I, Class II	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 2, 50 kA 8/20 μ s IEC® 61643-1 Class I, Class II

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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