DT Panel Protector, 120 kA TT

The nVent ERICO DTX120 Series of Surge Protective Devices (SPD) features Worldwide standards compliance and provides premium protection against damaging transients and surge currents, particularly in IEC Class I & Class II and UL Type 1 & Type 2 locations. The innovative design allows for installation on the line or load of the service panels and removes the need for circuit breakers (B Version Only). With a 120 kA per phase surge rating, DTX120 is well suited for category C locations. It is typically used in applications including service entrances, distribution, branch panels, MCC, lighting panels, HVAC, and more. The nVent ERICO DTX120 also features a NEMA®-4X enclosure rating, making it suitable for outdoor applications.

FEATURES

Excellent clamping and low UL voltage protection ratings

Features relay alarming for power/phase loss and status of SPD health

Design allows for easy removal and replacement of surge modules via lever assist

RS-485 Interface Standard

Up to 53 dB attenuation (10 kHz to 100 MHz), F Version Only

10-Year Warranty

SPECIFICATIONS

Table 1/5						
Catalog Number	Nominal System Voltage (Un)	Distribution System	Max Continuous Operating Voltage (Uc)	Nominal Discharge Current (In), IEC	Nominal Discharge Current (In), IEC, N-PE	Max Discharge Current (Imax), N-PE
DTX120B400TT	230/400 V	3Ph 4W+G	300/520 VAC	40kA 8/20 µs	100kA 8/20 µs	120kA 8/20 µs
DTX120F400TT	230/400 V	3Ph 4W+G	300/520 VAC	40kA 8/20 µs	100kA 8/20 µs	120kA 8/20 µs

Table 2/5						
Catalog Number	Max Discharge Current (Imax), Per Phase	Impulse Current (Iimp), Per Mode	Impulse Current (Iimp), N-PE	Filtering	Frequency	Voltage Protection Level (Up), IEC

| DTX120B400TT | 120kA 8/20 µs | 17.5kA 10/350 µs | 70kA 10/350 µs | | 50 - 60 Hz | 1200 V @ 20 kA, 3000 V @ 100 kA |
| DTX120F400TT | 120kA 8/20 µs | 17.5kA 10/350 µs | 70kA 10/350 µs | -29 dB @ 100 kHz | 50 - 60 Hz | 1200 V @ 20 kA, 3000 V @ 100 kA |

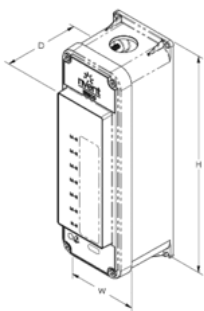| Table 3/5						
Catalog Number	Protection Modes	Short Circuit Current Rating (Isccr)	Temperature	Mounting	Enclosure Material	Enclosure Rating
DTX120B400TT	L-N, L-PE, N-PE	50kA	-40 to 80 °C	4 Screw Locations	Metal with PC Lid	NEMA®-4X, UL® 50E Type 4, IP 65
DTX120F400TT	L-N, L-PE, N-PE	50kA	-40 to 80 °C	4 Screw Locations	Metal with PC Lid	NEMA®-4X, UL® 50E Type 4, IP 65

Table 4/5						
Catalog Number	Lead Size	Remote Contact Switching Capacity	Remote Contacts	Status Indication	Technology	Complies With
DTX120B400TT	2 - 13 mm²	2 A @ 240 V	Yes (Form C)	Audible alarm with silence switch, Dual color status LED, Mechanical flag, OLED Display, Surge counter, Surge/TOV Counter, Resettable	Hybrid technology utilizing thermal disconnects	EN 61643-11 Type 1, Type 2, IEC® 61643-1 Class I, Class II, ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C

CatalogNumber	Lead Size	RemoteContact Switching Capacity	Remote Contacts	Status Indication	Technology	Complies With
DTX120F400TT	2 - 13 mm²	2 A @ 240 V	Yes (Form C)	Audible alarm with silence switch, Dual color status LED, Mechanical flag, OLED Display, Surge counter, Surge/TOV Counter, Resettable	Hybrid technology utilizing thermal disconnects	EN 61643-11 Type 1, Type 2, IEC® 61643-1 Class I, Class II, ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C

Table 5/5					
Catalog Number	Depth (D)	Height (H)	Unit Weight	Width (W)	Replacement Module
DTX120B400TT	114.3mm	330.2 mm	3.27 kg	101.6 mm	DT1300M, SGT1100M
DTX120F400TT	114.3mm	330.2 mm	3.27 kg	101.6 mm	DT1300M, SGT1100M

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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