

DT PANEL PROTECTOR (F), 120 KA



The nVent ERICO DTX120 Series of Surge Protective Devices (SPD) features North American and 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.

CERTIFICATIONS



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)

10 Year Warranty

SPECIFICATIONS

Table 1/6

Catalog Number	Nominal System Voltage (Un)	Max Continuous Operating Voltage (Uc)	Distribution System	Impulse Current (Iimp), Per Mode	Frequency	Filtering
DTX120F12024 OSP	120/240 V	150/300 VAC	1Ph 3W+G	12.5kA 10/350 µs	50 – 60Hz	-29 dB @ 100 kHz

Catalog Number	Nominal System Voltage (Un)	Max Continuous Operating Voltage (Uc)	Distribution System	Impulse Current (Iimp), Per Mode	Frequency	Filtering
DTX120F12024 OHD	120/240 V	150/275 VAC	3PhΔ 4W+G	12.5kA 10/350 μs	50 – 60Hz	-29 dB @ 100 kHz
DTX120F208Y	120/208 V	150/300 VAC	3Ph 4W+G	12.5kA 10/350 μs	50 – 60Hz	-29 dB @ 100 kHz
DTX120F240D	240 VAC	275 VAC	3PhΔ 3W+G	12.5kA 10/350 μs	50 – 60Hz	-29 dB @ 100 kHz
DTX120F480D	480 V	510 VAC	3PhΔ 3W+G	12.5kA 10/350 μs	50 – 60Hz	-29 dB @ 100 kHz
DTX120F480Y	277/480 V	350/700 VAC	3Ph 4W+G	12.5kA 10/350 μs	50 – 60Hz	-29 dB @ 100 kHz

Table 2/6

Catalog Number	Voltage Protection Rating (VPR), L-G	Voltage Protection Rating (VPR), N-G	Voltage Protection Rating (VPR), L-N	Voltage Protection Rating (VPR), L-L	Max Discharge Current (Imax), Per Phase	Protection Modes
DTX120F12024 OSP	700V	700V	700V	1000V	120kA 8/20 μs	L-PE, L-PE, N-PE
DTX120F12024 OHD	1200V	1500V	800V	1500V	120kA 8/20 μs	L-N, L-PE, N-PE
DTX120F208Y	700V	600V	700V	1200V	120kA 8/20 μs	L-N, L-PE, N-PE
DTX120F240D	1000V			1000V	120kA 8/20 μs	L-PE
DTX120F480D	1800V			1800V	120kA 8/20 μs	L-PE
DTX120F480Y	1200V	1200V	1200V	2000V	120kA 8/20 μs	L-N, L-PE, N-PE

Table 3/6

Catalog Number	Short Circuit Current Rating (SCCR)	Nominal Discharge Current (In), UL	Nominal Discharge Current (In), IEC	Temperature	Mounting	Enclosure Material
DTX120F12024 OSP	200kA	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	4 Screw Locations	Metal with PC Lid
DTX120F12024 OHD	200kA	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	4 Screw Locations	Metal with PC Lid
DTX120F208Y	200kA	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	4 Screw Locations	Metal with PC Lid
DTX120F240D	200kA	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	4 Screw Locations	Metal with PC Lid

Catalog Number	Short Circuit Current Rating (SCCR)	Nominal Discharge Current (In), UL	Nominal Discharge Current (In), IEC	Temperature	Mounting	Enclosure Material
DTX120F480D	200kA	20kA 8/20 μ s	40kA 8/20 μ s	-40 to 80°C	4 Screw Locations	Metal with PC Lid
DTX120F480Y	200kA	20kA 8/20 μ s	40kA 8/20 μ s	-40 to 80°C	4 Screw Locations	Metal with PC Lid

Table 4/6						
Catalog Number	Enclosure Rating	Lead Size	Status Indication	Remote Contacts	Remote Contact Switching Capacity	Voltage Protection Level (Up), IEC
DTX120F12024 OSP	NEMA®-4X, UL® 50E Type 4	2.5 – 16mm ²	Audible alarm with silence switch, Dual color status LED, Mechanical flag, OLED Display, Surge/TOV Counter, Resettable	Yes (Form C)	2.0 A @ 240 V	1200 V @ 20 kA, 3000 V @ 100 kA
DTX120F12024 OHD	NEMA®-4X, UL® 50E Type 4	2.5 – 16mm ²	Audible alarm with silence switch, Dual color status LED, Mechanical flag, OLED Display, Surge/TOV Counter, Resettable	Yes (Form C)	2.0 A @ 240 V	1200 V @ 20 kA, 3000 V @ 100 kA
DTX120F208Y	NEMA®-4X, UL® 50E Type 4	2.5 – 16mm ²	Audible alarm with silence switch, Dual color status LED, Mechanical flag, OLED Display, Surge/TOV Counter, Resettable	Yes (Form C)	2.0 A @ 240 V	1200 V @ 20 kA, 3000 V @ 100 kA

Catalog Number	Enclosure Rating	Lead Size	Status Indication	Remote Contacts	Remote Contact Switching Capacity	Voltage Protection Level (Up), IEC
DTX120F240D	NEMA®-4X, UL® 50E Type 4	2.5 – 16mm ²	Audible alarm with silence switch, Dual color status LED, Mechanical flag, OLED Display, Surge/TOV Counter, Resettable	Yes (Form C)	2.0 A @ 240 V	1200 V @ 20 kA, 3000 V @ 100 kA
DTX120F480D	NEMA®-4X, UL® 50E Type 4	2.5 – 16mm ²	Audible alarm with silence switch, Dual color status LED, Mechanical flag, OLED Display, Surge/TOV Counter, Resettable	Yes (Form C)	2.0 A @ 240 V	1200 V @ 20 kA, 3000 V @ 100 kA
DTX120F480Y	NEMA®-4X, UL® 50E Type 4	2.5 – 16mm ²	Audible alarm with silence switch, Dual color status LED, Mechanical flag, OLED Display, Surge/TOV Counter, Resettable	Yes (Form C)	2.0 A @ 240 V	1200 V @ 20 kA, 3000 V @ 100 kA

Table 5/6

Catalog Number	Short Circuit Current Rating (Iscrr)	Technology	Certification Details	Complies With	Height (H)	Width (W)
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DTX120F12024 OSP	50kA	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1283 Edition 7, UL® 1449 Edition 5 Type 2, 20 kA Mode	ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	101.6mm
DTX120F12024 OHD	50kA	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1283 Edition 7, UL® 1449 Edition 5 Type 2, 20 kA Mode	ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	101.6mm
DTX120F208Y	50kA	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1283 Edition 7, UL® 1449 Edition 5 Type 2, 20 kA Mode	ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	101.6mm
DTX120F240D	50kA	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1283 Edition 7, UL® 1449 Edition 5 Type 2, 20 kA Mode	ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	101.6mm

DTX120F480D	50kA	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1283 Edition 7, UL® 1449 Edition 5 Type 2, 20 kA Mode	ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	101.6mm
DTX120F480Y	50kA	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1283 Edition 7, UL® 1449 Edition 5 Type 2, 20 kA Mode	ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	101.6mm

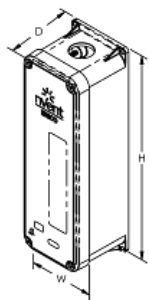
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Catalog Number	Depth (D)	Unit Weight	Replacement Module
DTX120F120240SP	98.3mm	2.9kg	DT2180DTXM, DT2275DTXM
DTX120F120240HD	98.3mm	2.7kg	DT2180DTXM, DT2275DTXM
DTX120F208Y	98.3mm	2.86kg	DT2150DTXM
DTX120F240D	98.3mm	2.79kg	DT2275DTXM
DTX120F480D	98.3mm	2.88kg	DT2510DTXM
DTX120F480Y	98.3mm	3.08kg	DT2350M

ADDITIONAL PRODUCT DETAILS

Optional Flush Plate and Side Mount Kits available: DTX120FP & DTX120SM

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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