

DT PANEL PROTECTOR (B), 240 KA



The nVent ERICO DTX240 Series of Surge Protective Devices (SPD) 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 240 kA per phase surge rating, DTX240 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 DTX240 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
- 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	Voltage Protection Rating (VPR), L-G
DTX240B12024 OSP	120/240 V	150/300 VAC	1Ph 3W+G	12.5kA 10/350 µs	50 – 60Hz	700V

Catalog Number	Nominal System Voltage (Un)	Max Continuous Operating Voltage (Uc)	Distribution System	Impulse Current (Iimp), Per Mode	Frequency	Voltage Protection Rating(VPR), L-G
DTX240B12024 OHD	120/240 V	150/275 VAC	3PhΔ 4W+G	12.5kA 10/350 μs	50 – 60Hz	1200V
DTX240B208Y	120/208 V	150/300 VAC	3Ph 4W+G	12.5kA 10/350 μs	50 – 60Hz	700V
DTX240B240D	240 V	275 VAC	3PhΔ 3W+G	12.5kA 10/350 μs	50 – 60Hz	1000V
DTX240B480D	480 V	510 VAC	3PhΔ 3W+G	12.5kA 10/350 μs	50 – 60Hz	1800V
DTX240B480Y	277/480 V	350/700 VAC	3Ph 4W+G	12.5kA 10/350 μs	50 – 60Hz	1200V

Table 2/6

Catalog Number	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	Short Circuit Current Rating (SCCR)
DTX240B12024 OSP	600V	600V	1000V	240kA 8/20 μs	L-N, L-PE, N-PE	200kA
DTX240B12024 OHD	1500V	800V	1500V	240kA 8/20 μs	L-N, L-PE, N-PE	200kA
DTX240B208Y	700V	700V	1200V	240kA 8/20 μs	L-N, L-PE, N-PE	200kA
DTX240B240D			1000V	240kA 8/20 μs	L-PE	200kA
DTX240B480D			1800V	240kA 8/20 μs	L-PE	200kA
DTX240B480Y	1200V	1200V	1800V	240kA 8/20 μs	L-N, L-PE, N-PE	200kA

Table 3/6

Catalog Number	Nominal Discharge Current (In), UL	Nominal Discharge Current (In), IEC	Temperature	Mounting	Enclosure Material	Enclosure Rating
DTX240B12024 OSP	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	8 Screw Locations	Metal with PC Lid	NEMA®-4X, UL® 50E Type 4
DTX240B12024 OHD	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	8 Screw Locations	Metal with PC Lid	NEMA®-4X, UL® 50E Type 4
DTX240B208Y	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	8 Screw Locations	Metal with PC Lid	NEMA®-4X, UL® 50E Type 4
DTX240B240D	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	8 Screw Locations	Metal with PC Lid	NEMA®-4X, UL® 50E Type 4

Catalog Number	Nominal Discharge Current (In), UL	Nominal Discharge Current (In), IEC	Temperature	Mounting	Enclosure Material	Enclosure Rating
DTX240B480D	20kA 8/20 μ s	40kA 8/20 μ s	-40 to 80°C	8 Screw Locations	Metal with PC Lid	NEMA®-4X, UL® 50E Type 4
DTX240B480Y	20kA 8/20 μ s	40kA 8/20 μ s	-40 to 80°C	8 Screw Locations	Metal with PC Lid	NEMA®-4X, UL® 50E Type 4

Table 4/6						
Catalog Number	Lead Size	Status Indication	Remote Contacts	Remote Contact Switching Capacity	Voltage Protection Level (Up), IEC	Short Circuit Current Rating (Iscrr)
DTX240B12024 OSP	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	50kA
DTX240B12024 OHD	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	50kA
DTX240B208Y	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	50kA

Catalog Number	Lead Size	Status Indication	Remote Contacts	Remote Contact Switching Capacity	Voltage Protection Level (Up), IEC	Short Circuit Current Rating(Iscrr)
DTX240B240D	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	50kA
DTX240B480D	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	50kA
DTX240B480Y	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	50kA

Table 5/6

Catalog Number	Technology	Certification Details	Complies With	Height (H)	Width (W)	Depth (D)
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DTX240B12024 OSP	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	222.5mm	98.3mm
DTX240B12024 OHD	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	222.5mm	98.3mm
DTX240B208Y	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	222.5mm	98.3mm
DTX240B240D	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	222.5mm	98.3mm

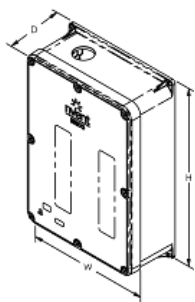
DTX240B480D	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	222.5mm	98.3mm
DTX240B480Y	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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, EN 61643-11 Type 2, IEC® 61643-11 Class II	330.7mm	222.5mm	98.3mm

Table 6/6		
Catalog Number	Unit Weight	Replacement Module
DTX240B120240SP	4.98kg	DT2180DTXM
DTX240B120240HD	5.38kg	DT2180DTXM, DT2275DTXM
DTX240B208Y	5.38kg	DT2150DTXM
DTX240B240D	5.18kg	DT2275DTXM
DTX240B480D	5.3kg	DT2510DTXM
DTX240B480Y	5.45kg	DT2350M

ADDITIONAL PRODUCT DETAILS

Optional Flush Plate and Side Mount Kits available: DTX240FP & DTX240SM

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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