

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



功能

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

技术参数

Table 1/6

物料号	标称系统电压 (Un)	最大持续操作电压 (Uc)	配电系统	脉冲电流 (Iimp), 每种模式	频率	滤频
DTX120F12024 OSP	120/240 V	150/300 VAC	1Ph 3W+G	12.5kA 10/350 μ s	50 – 60Hz	-29 dB @ 100 kHz
DTX120F12024 OHD	120/240 V	150/275 VAC	3Ph Δ 4W+G	12.5kA 10/350 μ s	50 – 60Hz	-29 dB @ 100 kHz
DTX120F208Y	120/208 V	150/300 VAC	3Ph 4W+G	12.5kA 10/350 μ s	50 – 60Hz	-29 dB @ 100 kHz
DTX120F240D	240 VAC	275 VAC	3Ph Δ 3W+G	12.5kA 10/350 μ s	50 – 60Hz	-29 dB @ 100 kHz
DTX120F480D	480 V	510 VAC	3Ph Δ 3W+G	12.5kA 10/350 μ s	50 – 60Hz	-29 dB @ 100 kHz
DTX120F480Y	277/480 V	350/700 VAC	3Ph 4W+G	12.5kA 10/350 μ s	50 – 60Hz	-29 dB @ 100 kHz

Table 2/6

物料号	电压保护等级 (VPR), L-G	电压保护等级 (VPR), N-G	电压保护等级 (VPR), L-N	电压保护等级 (VPR), L-L	最大放电电流 (Imax), 每种相位	保护模式
DTX120F12024 OSP	700V	700V	700V	1000V	120kA 8/20 μ s	L-PE, L-PE, N-PE
DTX120F12024 OHD	1200V	1500V	800V	1500V	120kA 8/20 μ s	L-N, L-PE, N-PE
DTX120F208Y	700V	600V	700V	1200V	120kA 8/20 μ s	L-N, L-PE, N-PE
DTX120F240D	1000V			1000V	120kA 8/20 μ s	L-PE
DTX120F480D	1800V			1800V	120kA 8/20 μ s	L-PE
DTX120F480Y	1200V	1200V	1200V	2000V	120kA 8/20 μ s	L-N, L-PE, N-PE

Table 3/6

物料号	短路电流额定值 (SCCR)	公称放电电流 (In), UL	公称放电电流 (In), IEC	温度	安装	外壳材质
DTX120F12024 OSP	200kA	20kA 8/20 μ s	40kA 8/20 μ s	-40 to 80°C	4 Screw Locations	Metal with PC Lid
DTX120F12024 OHD	200kA	20kA 8/20 μ s	40kA 8/20 μ s	-40 to 80°C	4 Screw Locations	Metal with PC Lid

物料号	短路电流额定值 (SCCR)	公称放电电流 (In), UL	公称放电电流 (In), IEC	温度	安装	外壳材质
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
DTX120F480D	200kA	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	4 Screw Locations	Metal with PC Lid
DTX120F480Y	200kA	20kA 8/20 μs	40kA 8/20 μs	-40 to 80°C	4 Screw Locations	Metal with PC Lid

Table 4/6						
物料号	外壳防护等级	导线尺寸	状态指示	远程触点	远程触点分断容量	电压保护水平 (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

物料号	外壳防护等级	导线尺寸	状态指示	远程触点	远程触点分断容量	电压保护水平 (Up), IEC
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
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

物料号	外壳防护等级	导线尺寸	状态指示	远程触点	远程触点分断容量	电压保护水平 (Up), IEC
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						
物料号	短路电流额定值 (Isc cr)	技术	Certification Details	符合	高度 (H)	宽度 (W)
DTX120F12024 0SP	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

物料号	短路电流额定值 (Iscrr)	技术	Certification Details	符合	高度 (H)	宽度 (W)
DTX120F12024 0HD	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

物料号	短路电流额定值 (Iscrr)	技术	Certification Details	符合	高度 (H)	宽度 (W)
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

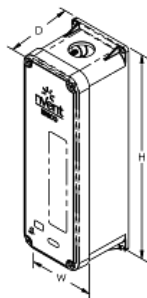
物料号	短路电流额定值 (Iscrr)	技术	Certification Details	符合	高度 (H)	宽度 (W)
DTX120F480Y	50kA	Hybrid technology utilizing thermal disconnects	CSA C22.2 No. 269.2, UL® 1283 Edition 7, UL® 1449 Edition 5 Type 2, 20 kA Mode	ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C, EN 61643-11 Type 2, IEC® 61643- 11 Class II	330.7mm	101.6mm

Table 6/6			
物料号	深度 (D)	元件重量	更换模块
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



警告

应仅根据 nVent 的产品说明书与培训材料安装并使用 nVent 的产品。可访问 www.nvent.com 获取说明书，或者向您的 nVent 客服代表索取。错误安装、使用不当、滥用或未能完全遵守 nVent 的说明与警告，可能会造成产品故障、财产损失、严重的人身伤害及死亡和/或使得保修服务无效。



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