

## DT PANEL PROTECTOR (F), 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
- 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           |
|---------------------|-----------------------------|---------------------------------------|---------------------|----------------------------------|-----------|---------------------|
| DTX240F12024<br>OSP | 120/240 V                   | 150/300 VAC                           | 1Ph 3W+G            | 12.5kA 10/350<br>µs              | 50 – 60Hz | -29 dB @ 100<br>kHz |

| Catalog Number   | Nominal System Voltage (Un) | Max Continuous Operating Voltage (Uc) | Distribution System | Impulse Current (Iimp), Per Mode | Frequency | Filtering        |
|------------------|-----------------------------|---------------------------------------|---------------------|----------------------------------|-----------|------------------|
| DTX240F12024 OHD | 120/240 V                   | 150/275 VAC                           | 3PhΔ 4W+G           | 12.5kA 10/350 μs                 | 50 – 60Hz | -29 dB @ 100 kHz |
| DTX240F208Y      | 120/208 V                   | 150/300 VAC                           | 3Ph 4W+G            | 12.5kA 10/350 μs                 | 50 – 60Hz | -29 dB @ 100 kHz |
| DTX240F240D      | 240 V                       | 275 VAC                               | 3PhΔ 3W+G           | 12.5kA 10/350 μs                 | 50 – 60Hz | -29 dB @ 100 kHz |
| DTX240F480D      | 480 V                       | 510 VAC                               | 3PhΔ 3W+G           | 12.5kA 10/350 μs                 | 50 – 60Hz | -29 dB @ 100 kHz |
| DTX240F480Y      | 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 |
|------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------------|------------------|
| DTX240F12024 OSP | 700V                                 | 600V                                 | 600V                                 | 1200V                                | 240kA 8/20 μs                           | L-N, L-PE, N-PE  |
| DTX240F12024 OHD | 1200V                                | 1500V                                | 800V                                 | 1500V                                | 240kA 8/20 μs                           | L-N, L-PE, N-PE  |
| DTX240F208Y      | 700V                                 | 700V                                 | 700V                                 | 1200V                                | 240kA 8/20 μs                           | L-N, L-PE, N-PE  |
| DTX240F240D      | 1000V                                |                                      |                                      | 1000V                                | 240kA 8/20 μs                           | L-PE             |
| DTX240F480D      | 1800V                                |                                      |                                      | 1800V                                | 240kA 8/20 μs                           | L-PE             |
| DTX240F480Y      | 1200V                                | 1200V                                | 1200V                                | 1800V                                | 240kA 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 |
|------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------|-------------------|--------------------|
| DTX240F12024 OSP | 200kA                               | 20kA 8/20 μs                       | 40kA 8/20 μs                        | -40 to 80°C | 8 Screw Locations | Metal with PC Lid  |
| DTX240F12024 OHD | 200kA                               | 20kA 8/20 μs                       | 40kA 8/20 μs                        | -40 to 80°C | 8 Screw Locations | Metal with PC Lid  |
| DTX240F208Y      | 200kA                               | 20kA 8/20 μs                       | 40kA 8/20 μs                        | -40 to 80°C | 8 Screw Locations | Metal with PC Lid  |
| DTX240F240D      | 200kA                               | 20kA 8/20 μs                       | 40kA 8/20 μs                        | -40 to 80°C | 8 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 |
|----------------|-------------------------------------|------------------------------------|-------------------------------------|-------------|-------------------|--------------------|
| DTX240F480D    | 200kA                               | 20kA 8/20 $\mu$ s                  | 40kA 8/20 $\mu$ s                   | -40 to 80°C | 8 Screw Locations | Metal with PC Lid  |
| DTX240F480Y    | 200kA                               | 20kA 8/20 $\mu$ s                  | 40kA 8/20 $\mu$ s                   | -40 to 80°C | 8 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 |
| DTX240F12024 OSP | NEMA®-4X, UL® 50E Type 4 | 2.5 – 16mm <sup>2</sup> | 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    |
| DTX240F12024 OHD | NEMA®-4X, UL® 50E Type 4 | 2.5 – 16mm <sup>2</sup> | 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    |
| DTX240F208Y      | NEMA®-4X, UL® 50E Type 4 | 2.5 – 16mm <sup>2</sup> | 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 |
|----------------|-----------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------|------------------------------------|
| DTX240F240D    | NEMA®-4X,<br>UL® 50E Type 4 | 2.5 – 16mm <sup>2</sup> | 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,<br>3000 V @ 100 kA |
| DTX240F480D    | NEMA®-4X,<br>UL® 50E Type 4 | 2.5 – 16mm <sup>2</sup> | 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,<br>3000 V @ 100 kA |
| DTX240F480Y    | NEMA®-4X,<br>UL® 50E Type 4 | 2.5 – 16mm <sup>2</sup> | 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,<br>3000 V @ 100 kA |

Table 5/6

| Catalog Number | Short Circuit Current Rating (Iscrr) | Technology | Certification Details | Complies With | Height (H) | Width (W) |
|----------------|--------------------------------------|------------|-----------------------|---------------|------------|-----------|
|----------------|--------------------------------------|------------|-----------------------|---------------|------------|-----------|

|                     |      |                                                          |                                                                                               |                                                                                                                                                                                                                           |         |         |
|---------------------|------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| DTX240F12024<br>OSP | 50kA | Hybrid<br>technology<br>utilizing thermal<br>disconnects | CSA C22.2 No.<br>269.2, UL®<br>1283 Edition 7,<br>UL® 1449<br>Edition 5 Type 2,<br>20 kA Mode | ANSI®/IEEE®<br>C62.41.2-2002<br>Cat A, Cat B, Cat<br>C, ANSI®/IEEE®<br>C62.41.1-2002<br>Cat A, Cat B, Cat<br>C, ANSI®/IEEE®<br>C62.45-2002<br>Cat A, Cat B, Cat<br>C, EN 61643-11<br>Type 2, IEC®<br>61643-11 Class<br>II | 330.7mm | 222.5mm |
| DTX240F12024<br>OHD | 50kA | Hybrid<br>technology<br>utilizing thermal<br>disconnects | CSA C22.2 No.<br>269.2, UL®<br>1283 Edition 7,<br>UL® 1449<br>Edition 5 Type 2,<br>20 kA Mode | ANSI®/IEEE®<br>C62.41.2-2002<br>Cat A, Cat B, Cat<br>C, ANSI®/IEEE®<br>C62.41.1-2002<br>Cat A, Cat B, Cat<br>C, ANSI®/IEEE®<br>C62.45-2002<br>Cat A, Cat B, Cat<br>C, EN 61643-11<br>Type 2, IEC®<br>61643-11 Class<br>II | 330.7mm | 222.5mm |
| DTX240F208Y         | 50kA | Hybrid<br>technology<br>utilizing thermal<br>disconnects | CSA C22.2 No.<br>269.2, UL®<br>1283 Edition 7,<br>UL® 1449<br>Edition 5 Type 2,<br>20 kA Mode | ANSI®/IEEE®<br>C62.41.2-2002<br>Cat A, Cat B, Cat<br>C, ANSI®/IEEE®<br>C62.41.1-2002<br>Cat A, Cat B, Cat<br>C, ANSI®/IEEE®<br>C62.45-2002<br>Cat A, Cat B, Cat<br>C, EN 61643-11<br>Type 2, IEC®<br>61643-11 Class<br>II | 330.7mm | 222.5mm |
| DTX240F240D         | 50kA | Hybrid<br>technology<br>utilizing thermal<br>disconnects | CSA C22.2 No.<br>269.2, UL®<br>1283 Edition 7,<br>UL® 1449<br>Edition 5 Type 2,<br>20 kA Mode | ANSI®/IEEE®<br>C62.41.2-2002<br>Cat A, Cat B, Cat<br>C, ANSI®/IEEE®<br>C62.41.1-2002<br>Cat A, Cat B, Cat<br>C, ANSI®/IEEE®<br>C62.45-2002<br>Cat A, Cat B, Cat<br>C, EN 61643-11<br>Type 2, IEC®<br>61643-11 Class<br>II | 330.7mm | 222.5mm |

|             |      |                                                 |                                                                                |                                                                                                                                                                                       |         |         |
|-------------|------|-------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| DTX240F480D | 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® C62.41.2-2002 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 |
| DTX240F480Y | 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® C62.41.2-2002 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 |

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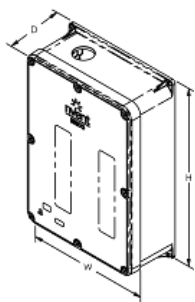
| Catalog Number  | Depth (D) | Unit Weight | Replacement Module     |
|-----------------|-----------|-------------|------------------------|
| DTX240F120240SP | 98.3mm    | 4.98kg      | DT2180DTXM             |
| DTX240F120240HD | 98.3mm    | 5.38kg      | DT2180DTXM, DT2275DTXM |
| DTX240F208Y     | 98.3mm    | 5.38kg      | DT2150DTXM             |
| DTX240F240D     | 98.3mm    | 5.18kg      | DT2275DTXM             |
| DTX240F480D     | 98.3mm    | 5.3kg       | DT2510DTXM             |
| DTX240F480Y     | 98.3mm    | 5.45kg      | DT2350M                |

## ADDITIONAL PRODUCT DETAILS

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

## DIAGRAMS

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## WARNING

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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](http://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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