

## DT PANEL PROTECTOR, 240 KA TT



The nVent ERICO DTX240 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 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.

### 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) | Max Continuous Operating Voltage (Uc) | Distribution System | Max Discharge Current (Imax), N-PE | Impulse Current (Iimp), Per Mode | Impulse Current (Iimp), N-PE |
|----------------|-----------------------------|---------------------------------------|---------------------|------------------------------------|----------------------------------|------------------------------|
| DTX240B400TT   | 230/400 V                   | 300/520 VAC                           | 3Ph 4W+G            | 240kA 8/20 µs                      | 17.5kA 10/350 µs                 | 70kA 10/350 µs               |
| DTX240F400TT   | 230/400 V                   | 300/520 VAC                           | 3Ph 4W+G            | 240kA 8/20 µs                      | 17.5kA 10/350 µs                 | 70kA 10/350 µs               |

Table 2/5

| Catalog Number | Frequency | Filtering          | Max Discharge Current (I <sub>max</sub> ), Per Phase | Protection Modes | Nominal Discharge Current (I <sub>n</sub> ), IEC, N-PE | Nominal Discharge Current (I <sub>n</sub> ), IEC |
|----------------|-----------|--------------------|--|------------------|--|--|
| DTX240B400TT   | 50 – 60Hz |                    | 240kA 8/20 μs  | L-N, L-PE, N-PE  | 100kA 8/20 μs  | 40kA 8/20 μs                                     |
| DTX240F400TT   | 50 – 60Hz | -29 dB @ 100 kHzdB | 240kA 8/20 μs  | L-N, L-PE, N-PE  | 100kA 8/20 μs  | 40kA 8/20 μs                                     |

Table 3/5

| Catalog Number | Temperature | Mounting                           | Enclosure Material | Enclosure Rating               | Lead Size             | Status Indication  |
|----------------|-------------|------------------------------------|--------------------|--------------------------------|-----------------------|--|
| DTX240B400TT   | -40 to 80°C | Hoffman Mounting Hardware Included | Metal              | NEMA®-4X, UL® 50E Type 4, IP66 | 2 – 13mm <sup>2</sup> | Audible alarm with silence switch, Dual color status LED, flashing red for faults, Mechanical flag, OLED Display, Mechanical flag, Surge/TOV Counter, Resettable |
| DTX240F400TT   | -40 to 80°C | Hoffman Mounting Hardware Included | Metal              | NEMA®-4X, UL® 50E Type 4, IP66 | 2 – 13mm <sup>2</sup> | Audible alarm with silence switch, Dual color status LED, flashing red for faults, Mechanical flag, OLED Display, Mechanical flag, Surge/TOV Counter, Resettable |

Table 4/5

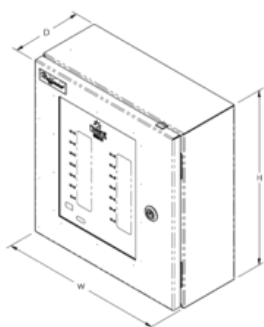
| Catalog Number | Remote Contacts | Remote Contact Switching Capacity | Voltage Protection Level (Up), IEC | Short Circuit Current Rating (I <sub>sc</sub> cr) | Technology | Complies With |
|----------------|-----------------|-----------------------------------|------------------------------------|---|------------|---------------|
|----------------|-----------------|-----------------------------------|------------------------------------|---|------------|---------------|

|              |              |               |                                    |      |   |   |
|--------------|--------------|---------------|------------------------------------|------|---|---|
| DTX240B400TT | Yes (Form C) | 2.0 A @ 240 V | 1200 V @ 20 kA,<br>3000 V @ 100 kA | 50kA | Hybrid technology utilizing thermal disconnects | EN 61643-11<br>Type 1, Type 2,<br>IEC® 61643-1<br>Class I, Class II,<br>ANSI®/IEEE®<br>C62.41.2-2002<br>Cat A, Cat B, Cat C, ANSI®/IEEE®<br>C62.41.1-2002<br>Cat A, Cat B, Cat C, ANSI®/IEEE®<br>C62.45-2002<br>Cat A, Cat B, Cat C |
| DTX240F400TT | Yes (Form C) | 2.0 A @ 240 V | 1200 V @ 20 kA,<br>3000 V @ 100 kA | 50kA | Hybrid technology utilizing thermal disconnects | EN 61643-11<br>Type 1, Type 2,<br>IEC® 61643-1<br>Class I, Class II,<br>ANSI®/IEEE®<br>C62.41.2-2002<br>Cat A, Cat B, Cat C, ANSI®/IEEE®<br>C62.41.1-2002<br>Cat A, Cat B, Cat C  |

Table 5/5

| Catalog Number | Height (H) | Width (W) | Depth (D) | Unit Weight | Replacement Module   |
|----------------|------------|-----------|-----------|-------------|----------------------|
| DTX240B400TT   | 355.1mm    | 329.9mm   | 140.2mm   | 9.75kg      | DT1300M,<br>SGT1100M |
| DTX240F400TT   | 355.1mm    | 329.9mm   | 140.2mm   | 9.75kg      | DT1300M,<br>SGT1100M |

## DIAGRAMS



## **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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