

# 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<br>Number | Nominal<br>System Voltage<br>(Un) | Distribution<br>System | Max<br>Continuous<br>Operating<br>Voltage (Uc) | Nominal Discharge Current (In), IEC | Nominal<br>Discharge<br>Current (In),<br>IEC, N-PE | Max Discharge<br>Current (Imax),<br>N-PE |  |
| DTX240B400TT      | 230/400 V                         | 3Ph 4W+G               | 300/520 VAC                                    | 40kA 8/20 μs                        | 100kA 8/20 μs                                      | 240kA 8/20 μs                            |  |
| DTX240F400TT      | 230/400 V                         | 3Ph 4W+G               | 300/520 VAC                                    | 40kA 8/20 μs                        | 100kA 8/20 μs                                      | 240kA 8/20 μs                            |  |

| Table 2/5         |   |  |                                    |           |           |                     |
|-------------------|---|--|------------------------------------|-----------|-----------|---------------------|
| Catalog<br>Number | Max Discharge<br>Current (Imax),<br>Per Phase | Impulse<br>Current (limp),<br>Per Mode | Impulse<br>Current (limp),<br>N-PE | Filtering | Frequency | Protection<br>Modes |

| DTX240B400TT | 240kA 8/20 μs | 17.5kA 10/350<br>μs | 70kA 10/350 μs |                     | 50 - 60 Hz | L-N, L-PE, N-PE |
|--------------|---------------|---------------------|----------------|---------------------|------------|-----------------|
| DTX240F400TT | 240kA 8/20 μs | 17.5kA 10/350<br>μs | 70kA 10/350 μs | -29 dB @ 100<br>kHz | 50 - 60 Hz | L-N, L-PE, N-PE |

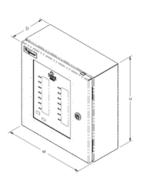
|                   | Table 3/5    |   |                       |                                      |            |  |  |  |
|-------------------|--------------|---|-----------------------|--------------------------------------|------------|--|--|--|
| Catalog<br>Number | Temperature  | Mounting                                    | Enclosure<br>Material | Enclosure<br>Rating                  | Lead Size  | Remote<br>Contact<br>Switching<br>Capacity |  |  |
| DTX240B400TT      | -40 to 80 °C | Hoffman<br>Mounting<br>Hardware<br>Included | Metal                 | NEMA®-4X,<br>UL® 50E Type<br>4, IP66 | 2 - 13 mm² | 2.0 A @ 240 V                              |  |  |
| DTX240F400TT      | -40 to 80 °C | Hoffman<br>Mounting<br>Hardware<br>Included | Metal                 | NEMA®-4X,<br>UL® 50E Type<br>4, IP66 | 2 - 13 mm² | 2.0 A @ 240 V                              |  |  |

|                   | Table 4/5          |  |  |  |  |  |  |  |
|-------------------|--------------------|--|--|--|--|--|--|--|
| Catalog<br>Number | Remote<br>Contacts | Short Circuit<br>Current Rating<br>(Isccr) | Status<br>Indication   | Technology   | Voltage<br>Protection<br>Level (Up), IEC | Complies With  |  |  |
| DTX240B400TT      | Yes (Form C)       | 50kA                                       | Audible alarm with silence switch, Dual color status LED, flashing red for faults, Mechanical flag, OLED Display, Mechanical flag, Surge/TOV Counter, Resettable | Hybrid<br>technology<br>utilizing thermal<br>disconnects | 1200 V @ 20<br>kA, 3000 V @<br>100 kA    | EN 61643-11 Type 1, Type 2, IEC® 61643-1 Class I, Class II, 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, ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C |  |  |

| CatalogNumber | Remote<br>Contacts | Short Circuit<br>Current Rating<br>(Iscor) | Status<br>Indication   | Technology   | Voltage<br>Protection<br>Level (Up), IEC | Complies With   |
|---------------|--------------------|--|--|--|--|---|
| DTX240F400TT  | Yes (Form C)       | 50kA                                       | Audible alarm with silence switch, Dual color status LED, flashing red for faults, Mechanical flag, OLED Display, Mechanical flag, Surge/TOV Counter, Resettable | Hybrid<br>technology<br>utilizing thermal<br>disconnects | 1200 V @ 20<br>kA, 3000 V @<br>100 kA    | 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,<br>Cat C,<br>ANSI®/IEEE®<br>C62.41.1-2002<br>Cat A, Cat B,<br>Cat C |

| Table 5/5      |           |            |             |           |                       |  |  |  |
|----------------|-----------|------------|-------------|-----------|-----------------------|--|--|--|
| Catalog Number | Depth (D) | Height (H) | Unit Weight | Width (W) | Replacement<br>Module |  |  |  |
| DTX240B400TT   | 140.2mm   | 355.1 mm   | 9.75 kg     | 329.9 mm  | DT1300M,<br>SGT1100M  |  |  |  |
| DTX240F400TT   | 140.2mm   | 355.1 mm   | 9.75 kg     | 329.9 mm  | DT1300M,<br>SGT1100M  |  |  |  |

# **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.

#### **North America**

+1.800.753.9221 Option 1 – Customer Care Option 2 – Technical Support

# Europe

Netherlands: +31 800-0200135 France: +33 800 901 793

## Europe

Germany: 800 1890272 Other Countries: +31 13 5835404

#### **APAC**

Shanghai: + 86 21 2412 1618/19 Sydney: +61 2 9751 8500



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN ILSCO SCHROFF TRACHTE