

# DT Panel Protector, 240 kA TT

## Data Solutions



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) | Distribution System | Max Continuous Operating Voltage (Uc) | Nominal Discharge Current (In), IEC | Nominal Discharge Current (In), IEC, N-PE | Max Discharge Current (Imax), 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 Number | Max Discharge Current (I <sub>max</sub> ), Per Phase | Impulse Current (I <sub>imp</sub> ), Per Mode | Impulse Current (I <sub>imp</sub> ), N-PE | Filtering          | Frequency | Protection Modes |
|----------------|------------------------------------------------------|-----------------------------------------------|-------------------------------------------|--------------------|-----------|------------------|
| DTX240B400TT   | 240kA 8/20 μs                                        | 17.5kA 10/350 μs                              | 70kA 10/350 μs                            |                    | 50 – 60Hz | L-N, L-PE, N-PE  |
| DTX240F400TT   | 240kA 8/20 μs                                        | 17.5kA 10/350 μs                              | 70kA 10/350 μs                            | -29 dB @ 100 kHzdB | 50 – 60Hz | L-N, L-PE, N-PE  |

Table 3/5

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

Table 4/5

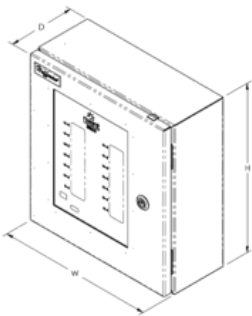
| Catalog Number | Remote Contacts | Short Circuit Current Rating (I <sub>sc</sub> ) | Status Indication                                                                                                                                                | Technology                                      | Voltage Protection 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 technology utilizing thermal disconnects | 1200 V @ 20 kA, 3000 V @ 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 |

| CatalogNumber | Remote Contacts | Short Circuit Current Rating (Iscsr) | Status Indication                                                                                                                                                | Technology                                      | Voltage Protection 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 technology utilizing thermal disconnects | 1200 V @ 20 kA, 3000 V @ 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 |

Table 5/5

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