

# Modular TDX Panel Protector, 100 kA with Surge Counter

## Power Utilities



### CERTIFICATIONS



### FEATURES

Transient Discriminating (TD) Technology provides increased service life

Modular design allows easy replacement of surge modules

Built-in features include TD Technology, thermal protection and short circuit current fusing

Compact NEMA®-4 enclosure design can be flush mounted or installed in a small space

Status indication flag per mode, voltage presence LEDs, audible alarm and voltage-free contacts providing remote status monitoring

100 kA 8/20  $\mu$ s maximum surge rating provides protection suitable for main-distribution panels and an extended operational life

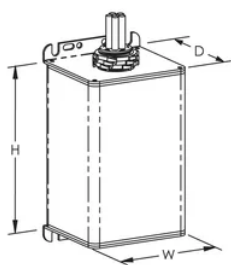
### SPECIFICATIONS

|                |                      |
|----------------|----------------------|
| Catalog Number | <b>TDX100S120240</b> |
|----------------|----------------------|

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Nominal System Voltage (Un)           | 120/240 V                                                                                            |
| Distribution System                   | 1Ph 3W+G                                                                                             |
| Max Continuous Operating Voltage (Uc) | 170/276 VAC                                                                                          |
| Stand-off Voltage                     | 240/480 VAC                                                                                          |
| Frequency                             | 50 – 60 Hz                                                                                           |
| Short Circuit Current Rating (SCCR)   | 200 kA                                                                                               |
| Nominal Discharge Current (In), IEC   | 40 kA 8/20 µs                                                                                        |
| Nominal Discharge Current (In), UL    | 20 kA 8/20 µs                                                                                        |
| Impulse Current (Iimp), Per Mode      | 12.5 kA 10/350 µs                                                                                    |
| Voltage Protection Rating (VPR), L-N  | 600 V @ 3 kA<br>1,200 V @ 20 kA                                                                      |
| Protection Modes                      | L-N<br>L-PE<br>N-PE                                                                                  |
| Status Indication                     | LED<br>Mechanical flag<br>Audible alarm                                                              |
| Surge Counter                         | Yes                                                                                                  |
| Technology                            | TD technology with thermal disconnect<br>Over-current replaceable cartridge fusing<br>EMI/RFI filter |
| Remote Contacts                       | Yes                                                                                                  |
| Lead Length                           | 762 mm                                                                                               |
| Lead Size                             | 5.26 mm <sup>2</sup>                                                                                 |
| Ground Lead Length                    | 914 mm                                                                                               |
| Temperature                           | -40 to 80 °C                                                                                         |
| Enclosure Rating                      | IP 65<br>NEMA®-4                                                                                     |
| Height (H)                            | 240 mm                                                                                               |
| Width (W)                             | 84 mm                                                                                                |
| Unit Weight                           | 1.410 kg                                                                                             |
| Certification Details                 | UL® 1449 Edition 5 Type 2, 20 kA Mode                                                                |
| Replacement Module                    | TDS150M150                                                                                           |

## 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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