

# EDT2 Enhanced DIN Rail Surge Protection Class II, 1+0 Mode, 100kA



Surges and voltage transients are a major cause of expensive electronic equipment failure and business disruption. Damage may result in the loss of capital outlays, such as computers and communications equipment, as well as consequential loss of revenue and profits due to unscheduled system down-time.

nVent ERICO offers multiple series of surge protective devices (SPDs) suitable for a vast range of applications that provide reliable protection from voltage transients on power distribution systems.

The EDT2 Series Enhanced Transient Discriminating Surge Protective Devices provide reliable protection against voltage transients within the IEC Class II and UL Type 1CA environments. In addition, nVent ERICO's Transient Discriminating (TD) technology ensures continued operation during and after sustained and abnormal over-voltage events. Tested and independently certified to the IEC and UL standards, the EDT2 Series provides a range of safety and performance features for the harshest environments and suitable for protection within a wide range of applications. The EDT2 Series provides extended service life in the harshest of environments, ensuring your equipment and systems are kept safe and operational through extreme abnormal voltage conditions.

## FEATURES

Includes nVent ERICO TD Technology to ensure reliability throughout adverse voltage conditions

Enhanced temporary over voltage (TOV) withstand capability

External back-up fuse is not required up to 315 A (IEC only)

Compact, yet high surge rated pluggable design, using minimum DIN rail width

Retaining clip ensures enhanced vibration and shock resistance performance

Red/Green status indication and change-over contacts standard for remote monitoring

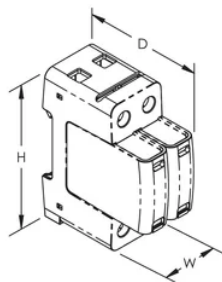
## SPECIFICATIONS

|                |             |
|----------------|-------------|
| Catalog Number | EDT2350R100 |
|----------------|-------------|

|                                           |                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| Nominal System Voltage (Un)               | 277 V                                                                                |
| Max Continuous Operating Voltage (Uc)     | 350 V                                                                                |
| Nominal Discharge Current (In), IEC       | 40kA 8/20 $\mu$ s                                                                    |
| Max Discharge Current (Imax), IEC         | 100kA 8/20 $\mu$ s                                                                   |
| Voltage Protection Level (Up)             | 1750V                                                                                |
| Back-Up Fuse @ Isccr                      | 250 A @ 50 kA<br>315 A @ 25 kA                                                       |
| Frequency                                 | 50 - 60 Hz                                                                           |
| Response Time                             | 25 ns Max                                                                            |
| Protection Modes                          | L-PE<br>N-PE<br>L-N<br>L-PEN                                                         |
| Short Circuit Current Rating (Isccr)      | 25kA<br>50kA                                                                         |
| Temporary Over Voltage 120 min (Ut/mode)  | 529 V Safe Fail                                                                      |
| Temporary Over Voltage Withstand 5 s (Ut) | 403V                                                                                 |
| Technology                                | TD technology with thermal disconnect                                                |
| Connection, Solid                         | 35 mm <sup>2</sup> Max                                                               |
| Connection, Stranded                      | 25 mm <sup>2</sup> Max                                                               |
| Torque (TQ)                               | 4.5 N·m                                                                              |
| Humidity                                  | 5 - 95                                                                               |
| Temperature                               | -40 to 70 °C                                                                         |
| Enclosure Material                        | UL® 94V-0 Thermoplastic                                                              |
| Enclosure Rating                          | IP 20                                                                                |
| Mounting                                  | 35 mm top hat DIN rail                                                               |
| Remote Contact Switching Capacity         | 1 A @ 250 VAC<br>1 A @ 125 VAC<br>0.5 A @ 48 VDC<br>0.5 A @ 24 VDC<br>0.5 A @ 12 VDC |
| Remote Contacts                           | Yes                                                                                  |
| Status Indication                         | Mechanical flag                                                                      |
| Depth (D)                                 | 69.09mm                                                                              |
| Height (H)                                | 89.92 mm                                                                             |
| Width (W)                                 | 36.07 mm                                                                             |
| Unit Weight                               | 0.14 kg                                                                              |
| Complies With                             | EN 61643-11 Type 2<br>IEC® 61643-11 Class II                                         |

|                    |         |
|--------------------|---------|
| Replacement Module | DT2350M |
|--------------------|---------|

## 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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