

# TRANSIENT DISCRIMINATING SURGE DIVERTER, 20 KA THREE MODE, 220-240 VAC UN

## CATALOG NUMBER

**TDS1301T240**



## CERTIFICATIONS



## FEATURES

- 20 kA 8/20  $\mu$ s surge rating provides robust surge protection
- TD Technology with thermal disconnect protection
- Compact package, modular DIN rail mounting for limited space requirements
- Three modes of protection: L-N, L-PE and N-PE
- Indication flags and voltage-free contacts provide remote status monitoring
- Separate plug and base design facilitates replacement of a failed surge module

## PRODUCT ATTRIBUTES

- Nominal System Voltage (Un): 220 - 240 VAC
- Max Continuous Operating Voltage (Uc): 275 VAC
- Stand-off Voltage: 440 VAC
- Voltage Protection Rating (VPR): 1500 V @ 3 kA L-N V; 800 V @ 3 kA L+N-PE V
- Nominal Discharge Current (In), Per Mode: 8 kA 8/20 -s
- Max Discharge Current (Imax), L-N: 20 kA 8/20  $\mu$ s

Max Discharge Current (Imax), L-PE: 20 kA 8/20  $\mu$ s

Back-Up Overcurrent Protection: 63 A

Short Circuit Current Rating (SCCR): 200 kA

Frequency: 0 – 100 Hz

Protection Modes: L-N; L-PE; N-PE

Response Time: 5 ns max

Technology: TD technology with thermal disconnect

Connection, PE Solid: 2 max

Connection, PE Stranded: 4 max

Connection, Solid: 10 max

Connection, Stranded: 10 max

Mounting: 35 mm top hat DIN rail

Enclosure Material: UL® 94V-0 Thermoplastic

Enclosure Rating: IP 20; NEMA®-1

Remote Contacts: No

Status Indication: Mechanical flag

Temperature: -40 to 176 °F

Module Width: 1 M

Depth (D): 2.68"

Height (H): 3.54"

Width (W): 0.71"

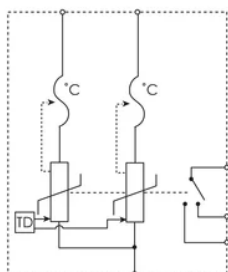
Unit Weight: 0.26 lb

Certification Details: UL® 1449 Edition 5 Type 4CA

Complies With: ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B; IEC® 61643-1 Class III

Replacement Module: TDS130M240

## 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.

**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:  
**nVent.com CADDY ERICO HOFFMAN RAYCHEM SCHROFF**  
**TRACER**