

# DT1 DIN Rail Surge Protection Class I+II 12.5 kA, 2+0 Mode, 600 V Un

#### **CATALOG NUMBER**

# DT175020R



#### **FEATURES**

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

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

Retaining clip ensures enhanced vibration and shock resistance performance

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

## **PRODUCT ATTRIBUTES**

Nominal System Voltage (Un): 600 V

Max Continuous Operating Voltage (Uc): 750 V

Nominal Discharge Current (In), IEC: 20kA 8/20 µs

Max Discharge Current (Imax), IEC: 35kA 8/20 μs

Impulse Current (Iimp): 5kA 10/350 μs

Voltage Protection Level (Up): 2700V

Response Time: 25 ns Max

Back-Up Fuse @ Isccr: 250 A @ 50 kA

Frequency: 50 - 60 Hz

Short Circuit Current Rating (Isccr): 50kA

Protection Modes: L-N;N-PE

Temporary Over Voltage 120 min (Ut/mode): 1143 V Safe Fail

Temporary Over Voltage Withstand 5 s (Ut): 871V

Voltage Protection Rating (VPR): 2500V

Nominal Discharge Current (In), UL: 20kA 8/20 µs

Replacement Module: DT1750M

Short Circuit Current Rating (SCCR): 150kA

Technology: Thermal Disconnect

Connection, Solid: 35 mm<sup>2</sup> Max

Connection, Stranded: 25 mm² Max

Torque (TQ): 4.5 N·m

Humidity: 5 - 95

Temperature: -35 to 85 °C

Enclosure Material: UL® 94V-0 Thermoplastic

Enclosure Rating: IP 20

Mounting: 35 mm top hat DIN rail

Remote Contact Switching Capacity: 0.5 A @ 12 VDC;0.5 A @ 24 VDC;0.5 A @ 48 VDC;1 A @ 125 VAC;1 A @ 250 VAC

Remote Contacts: Yes

Status Indication: Mechanical flag

Depth (D): 92mm

Height (H): 90 mm

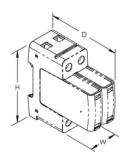
Width (W): 36 mm

Unit Weight: 0.4 kg

Certification Details: UL® 1449 Edition 5 Type 1CA

Complies With: EN 61643-11 Type 1, Type 2;IEC® 61643-11 Class I, Class II

#### **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