

CONNECT AND PROTECT

Surge Protection Solutions

Class I Surge Protection Devices



DT1M Series DIN Rail Surge Protection Device

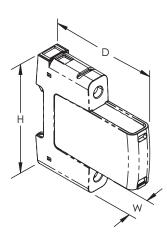
Surges and voltage transients are a major cause of expensive electronic equipment failure and business disruption. Damage may result in the loss of capital outlays, such as computers and communications equipment, as well as consequential loss of revenue and profits due to unscheduled system down-time. 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 DT1M Series DIN Rail Surge Protective Devices provide reliable and efficient protection against voltage transients within the IEC Class I (25 kA) environment. Tested and independently certified to the IEC standard, the DT1M Series provides a range of compact, safe and high surge rated performance features for the harsh IEC Class I environment and suitable for protection within a wide range of applications.

Additionally, the nVent ERICO DT1M Series sets itself apart from the competition with an innovative and unique technology. This technology advancement provides spark gap-like performance with MOV current extinction. The same technology allows the DT1M Series to be thinner than the competition by as much as 50% and can also be universally coordinated with any Class II or Class III SPD.









FEATURES

- · Spark gap surge performance with MOV-like current extinction
- Universally coordinated with any Class II or Class III surge protection devices
- 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
- · Includes thermal disconnect for safe end of life

DT1M Series DIN Rail Surge Protection Device

Nominal System Voltage (Un) 240 VAC Max Continuous Operating Voltage (Uc) 275 VAC 275 VAC L-N 305 VAC N-PE	
Max Continuous Operating Voltage (Uc) 275 VAC L-N	
May Continuous Charating Voltage (LIC) / 275 V/VC	
Nominal Discharge Current (In), IEC 25 kA 8/20 µs 1 100 kA 8/20 µs 1	
Max Discharge Current (Imax), IEC 65 kA 8/20 μs 65 kA 8/20 μs 150 kA 8/20 μs	
Impulse Current (limp) 25 kA 10/350 μs 50 kA 10/350 μs	
Voltage Protection Level (Up) 1,550 V	
Voltage Protection Level (Up), L-N – 1,800 V	
Voltage Protection Level (Up), N-PE – 1,500 V	
Back-Up Fuse @ Isccr 315 A @ 50 kA	
Response Time 100 ns Max	
Short Circuit Current Rating (Isccr) 50 kA	
Distribution System TN-C; TN-S; TT (L-N) TN-C TN-S TN-S; TT	
Protection Modes L-N; L-PE; L-PEN; N-PE (TN-S) L-PEN L-PE; N-PE	
Temporary Over Voltage 120 min (Ut/mode) 442 V Safe Fail –	
Temporary Over Voltage 120 min (Ut/mode), L-N 442 V Safe Fail	
Temporary Over Voltage Withstand 200 ms (Ut), N-PE - 1,200 V	
Technology Thermal Disconnect	
Connection, Solid 35 mm ² Max	
Connection, Stranded 25 mm² Max	
Torque (TQ) 4.5 N-m	
Altitude 2,000 m Max	
Humidity 5 – 95 % RH	
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 1.0 A @ 250 VAC; 1.0 A @ 125 VAC; 0.5 A @ 48 VDC; 0.5 A @ 24 VDC; 0.5 A @ 12 VDC	
Remote Contacts Yes	
Status Indication Mechanical flag	
Depth (D) 85 mm	
Height (H) 90 mm	
Width (W) 18 mm 54 mm 72 mm	
Replacement Module DT1M275M	
Complies With EN 61643-11 Type 1, Type 2; IEC® 61643-11 Class I, Class II	
Standard Packaging Quantity 1 pc	
UPC 78285698727 78285698728 78285698729 78285698730	
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