

DT1M DIN RAIL SURGE PROTECTION CLASS I+II 25 KA, 240 VAC UN, TN-C, TN-S, TT (L-N) DISTRIBUTION SYSTEM

CATALOG NUMBER

DT1M27510R



CERTIFICATIONS



FEATURES

- Spark gap surge performance with MOV-like current extinction
- Universally coordinated with any Class II or Class III surge protection devices
- Follow current limitation, no tripping of a 16 A gG fuse
- 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

PRODUCT ATTRIBUTES

- Nominal System Voltage (Un): 240 VAC
- Nominal Discharge Current (In), IEC: 25 kA 8/20 μ s
- Max Continuous Operating Voltage (Uc): 275 VAC
- Max Discharge Current (Imax), IEC: 65 kA 8/20 μ s
- Impulse Current (Iimp): 25 kA 10/350 μ s
- Voltage Protection Level (Up): 1,500 V

Back-Up Fuse @ Isccr: 315 A @ 50 kA

Frequency: 50 – 60 Hz

Response Time: 100 ns Max

Short Circuit Current Rating (Isccr): 50 kA

Protection Modes: L-N;L-PE;L-PEN;N-PE (TN-S)

Distribution System: TN-C;TN-S;TT (L-N)

Follow Current Interrupt Rating (Ifi): 50 kA

Temporary Over Voltage 120 min (Ut/mode): 442 V Withstand

Technology: Thermal Disconnect

Connection, Solid: 35 mm² Max

Connection, Stranded: 25 mm² Max

Torque: 4.50 N-m

Temperature: -40 to 70 °C

Humidity: 5 – 95 % RH

Altitude: 2,000 m Max

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: 85 mm

Height: 90 mm

Width: 18 mm

Unit Weight: 0.180 kg

Replacement Module: DT1M275M

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

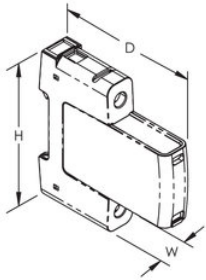
ADDITIONAL PRODUCT DETAILS

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.

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.