

DT2 DIN RAIL SURGE PROTECTION CLASS II, 3+1 MODE, 240 V UN

CATALOG NUMBER

DT230031R



CERTIFICATIONS



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): 240 V

Max Continuous Operating Voltage (Uc): 300 V L-N;305 V N-PE

Nominal Discharge Current (In), IEC: 20 kA 8/20 μ s L-N;40 kA 8/20 μ s N-PE

Max Discharge Current (Imax), IEC: 50 kA 8/20 μ s L-N;65 kA 8/20 μ s N-PE

Voltage Protection Level (Up), L-N: 1,500 V

Voltage Protection Level (Up), N-PE: 1,500 V

Back-Up Fuse @ Isccr: 250 A @ 50 kA;315 A @ 25 kA

Frequency: 50 – 60 Hz

Response Time, L-N: 25 ns Max

Response Time, N-PE: 100 ns Max

Protection Modes: L-N;N-PE

Short Circuit Current Rating (Isc cr): 25 kA;50 kA

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

Temporary Over Voltage Withstand 5 s (Ut), L-N: 337 V

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

Short Circuit Current Rating (SCCR): 150 kA

Voltage Protection Rating (VPR), L-N: 1,200 V

Voltage Protection Rating (VPR), N-PE: 1,000 V

Technology: Thermal Disconnect

Connection, Solid: 35 mm² Max

Connection, Stranded: 25 mm² Max

Torque: 4.50 N-m

Humidity: 5 – 95 % RH

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: 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: 69 mm

Height: 90 mm

Width: 72 mm

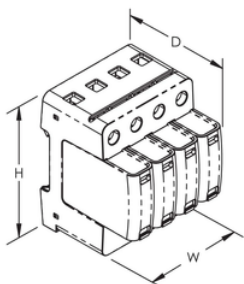
Unit Weight: 0.486 kg

Certification Details: UL® 1449 Edition 5 Type 1CA

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

Replacement Module: DT2300M;SGT240M

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.

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