

DT2 DIN Rail Surge Protection Class II, 3+1 Mode



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

SPECIFICATIONS

Catalog Number	DT230031R
Nominal System Voltage (Un)	240 V
Max Continuous Operating Voltage (Uc)	300 V L-N 305 V N-PE
Nominal Discharge Current (In), IEC, L-N	20kA 8/20 µs
Nominal Discharge Current (In), IEC, N-PE	40kA 8/20 µs
Max Discharge Current (Imax), IEC, L-N	50kA 8/20 µs

Catalog Number	DT230031R
Max Discharge Current (Imax), IEC, N-PE	65kA 8/20 µs
Voltage Protection Level (Up), L-N	1500V
Voltage Protection Level (Up), N-PE	1500V
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 (Isccr)	25kA 50kA
Temporary Over Voltage 120 min (Ut/mode), L-N	442 V Safe Fail
Temporary Over Voltage Withstand 200 ms (Ut), N-PE	1200V
Temporary Over Voltage Withstand 5 s (Ut), L-N	337V
Nominal Discharge Current (In), UL	20kA 8/20 µs
Short Circuit Current Rating (SCCR)	150kA
Voltage Protection Rating (VPR), L-N	1200V
Voltage Protection Rating (VPR), N-PE	1000V
Technology	Thermal Disconnect
Connection, Solid	35 mm² 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	1 A @ 250 VAC 1 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)	69mm

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Height (H)	90 mm
Width (W)	72 mm
Unit Weight	0.49 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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