

# DT2 DIN Rail Surge Protection Class II, 1+0 Mode, 100 kA



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 DT2 Series DIN Rail Surge Protective Devices provide reliable and efficient protection against voltage transients within the IEC Class II and UL Type 1CA environments. Tested and independently certified to the IEC and UL standards, the DT2 Series provides a range of safety and performance features for the harshest environments and suitable for protection within a wide range of applications.

## 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

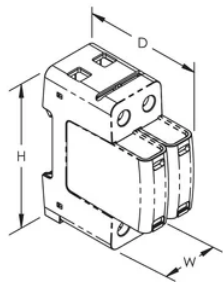
## SPECIFICATIONS

Catalog Number	DT2150R100	DT2350R100	DT2550R100	DT2300R100
Nominal System Voltage (Un)	120 V	277 V	480 V	240 V
Max Continuous Operating Voltage (Uc)	150 V	350 V	550 V	300 V
Nominal Discharge Current (In), IEC	40kA 8/20 μs	40kA 8/20 μs	40kA 8/20 μs	40kA 8/20 μs
Max Discharge Current (Imax), IEC	100kA 8/20 μs	100kA 8/20 μs	100kA 8/20 μs	100kA 8/20 μs

Catalog Number	DT2150R100	DT2350R100	DT2550R100	DT2300R100
Voltage Protection Level (Up)	1250V	1750V	2500V	1500V
Back-Up Fuse @ Isccr	250 A @ 50 kA 315 A @ 25 kA	250 A @ 50 kA 315 A @ 25 kA	250 A @ 50 kA 315 A @ 25 kA	250 A @ 50 kA 315 A @ 25 kA
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Response Time	25 ns Max	25 ns Max	25 ns Max	25 ns Max
Protection Modes	L-PE N-PE L-N L-PEN	L-PE N-PE L-N L-PEN	L-PE N-PE (TN-S) L-PEN L-N	L-PE N-PE L-N L-PEN
Short Circuit Current Rating (Isccr)	25kA 50kA	25kA 50kA	25kA 50kA	25kA 50kA
Temporary Over Voltage 120 min (Ut/mode)	229 V Safe Fail	529 V Safe Fail	915 V Safe Fail	442 V Safe Fail
Temporary Over Voltage Withstand 5 s (Ut)	229V	403V	697V	337V
Technology	Thermal Disconnect	Thermal Disconnect	Thermal Disconnect	Thermal Disconnect
Connection, Solid	35 mm <sup>2</sup> Max	35 mm <sup>2</sup> Max	35 mm <sup>2</sup> Max	35 mm <sup>2</sup> Max
Connection, Stranded	25 mm <sup>2</sup> Max	25 mm <sup>2</sup> Max	25 mm <sup>2</sup> Max	25 mm <sup>2</sup> Max
Torque (TQ)	4.5 N·m	4.5 N·m	4.5 N·m	4.5 N·m
Humidity	5 - 95	5 - 95	5 - 95	5 - 95
Temperature	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C
Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic
Enclosure Rating	IP 20	IP 20	IP 20	IP 20
Mounting	35 mm top hat DIN rail	35 mm top hat DIN rail	35 mm DIN Rail, EN 60715	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	1 A @ 250 VAC 1 A @ 125 VAC 0.5 A @ 48 VDC 0.5 A @ 24 VDC 0.5 A @ 12 VDC	1 A @ 250 VAC 1 A @ 125 V 0.5 A @ 48 VDC 0.5 A @ 24 V 0.5 A @ 12 V	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	Yes	Yes	Yes
Status Indication	Mechanical flag	Mechanical flag	Mechanical flag	Mechanical flag
Depth (D)	69.09mm	69.09mm	69.09mm	69.09mm
Height (H)	89.92 mm	89.92 mm	89.92 mm	89.92 mm
Width (W)	36.07 mm	36.07 mm	36.07 mm	36.07 mm

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Unit Weight	0.13 kg	0.14 kg	0.15 kg	0.14 kg Min
Complies With	EN 61643-11 Type 2 IEC® 61643-11 Class II	EN 61643-11 Type 2 IEC® 61643-11 Class II	EN 61643-11 Type 2 IEC® 61643-11 Class II	EN 61643-11 Type 2 IEC® 61643-11 Class II
Replacement Module	DT2150M	DT2350M	DT2550M	DT2300M

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](http://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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