

DT2 DIN Rail Surge Protection Class II, 3+0 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

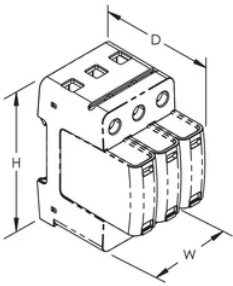
SPECIFICATIONS

Catalog Number	DT230030R	DT235030R	DT248030R	DT255030R
Nominal System Voltage (Un)	240 V	277 V	400 V	480 V
Max Continuous Operating Voltage (Uc)	300 V	350 V	480 V	550 V
Nominal Discharge Current (In), IEC	20kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs

Catalog Number	DT230030R	DT235030R	DT248030R	DT255030R
Max Discharge Current (Imax), IEC	50kA 8/20 µs	50kA 8/20 µs	50kA 8/20 µs	50kA 8/20 µs
Voltage Protection Level (Up)	1500V	1750V	2300V	2500V
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-PEN	L-PEN	L-PEN	L-PEN
Short Circuit Current Rating (Isccr)	25kA 50kA	25kA 50kA	25kA 50kA	25kA 50kA
Temporary Over Voltage 120 min (Ut/mode)	442 V Safe Fail	529 V Withstand	762 V Safe Fail	915 V Safe Fail
Temporary Over Voltage Withstand 5 s (Ut)	337V	403V	581V	697V
Nominal Discharge Current (In), UL	20kA 8/20 µs	20kA 8/20 µs	20kA 8/20 µs	20kA 8/20 µs
Short Circuit Current Rating (SCCR)	150kA	200kA	200kA	200kA
Voltage Protection Rating (VPR)	900V	1000V	1500V	2000V
Technology	Thermal Disconnect	Thermal Disconnect	Thermal Disconnect	Thermal Disconnect
Connection, Solid	35 mm ² Max	35 mm ² Max	35 mm ² Max	35 mm ² Max
Connection, Stranded	25 mm ² Max	25 mm ² Max	25 mm ² Max	25 mm ² 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	-35 to 85 °C	-35 to 85 °C	-35 to 85 °C	-35 to 85 °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 top hat DIN rail	35 mm DIN Rail, EN 60715
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 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
Remote Contacts	Yes	Yes	Yes	Yes

Catalog Number	DT230030R	DT235030R	DT248030R	DT255030R
Status Indication	Mechanical flag	Mechanical flag	Mechanical flag	Mechanical flag
Depth (D)	69mm	69mm	69mm	69mm
Height (H)	90 mm	90 mm	90 mm	90 mm
Width (W)	54 mm	54 mm	54 mm	54 mm
Unit Weight	0.38 kg	0.39 kg	0.41 kg	0.41 kg
Certification Details	UL® 1449 Edition 5 Type 1CA	UL® 1449 Edition 5 Type 1CA	UL® 1449 Edition 5 Type 1CA	UL® 1449 Edition 5 Type 1CA
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	DT2300M	DT2350M	DT2480M	DT2550M
Certifications	VDE, CE, ERICO DT2 Series, UR, cUR	CE, ERICO DT2 Series, UR, cUR, VDE	CE, ERICO DT2 Series, UR, cUR, VDE	CE, ERICO DT2 Series, UR, cUR

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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