

DT2 DIN Rail Surge Protection Class II, 2+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

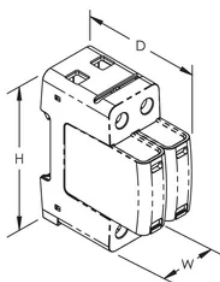
SPECIFICATIONS

Catalog Number	DT215020R	DT230020R	DT255020R	DT27520R	DT275020R
Nominal System Voltage (Un)	120 V	240 V	480 V	60 V	600 V
Max Continuous Operating Voltage (Uc)	150 V	300 V	550 V	75 V	750 V
Nominal Discharge Current (In), IEC	20kA 8/20 μ s	20kA 8/20 μ s	20kA 8/20 μ s	20kA 8/20 μ s	20kA 8/20 μ s

Catalog Number	DT215020R	DT230020R	DT255020R	DT27520R	DT275020R
Max Discharge Current (Imax), IEC	50kA 8/20 µs	50kA 8/20 µs	50kA 8/20 µs	50kA 8/20 µs	35kA 8/20 µs
Voltage Protection Level (Up)	1250V	1500V	2500V	800V	3400V
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	250 A @ 50 kA 315 A @ 25 kA
Frequency	50 - 60 Hz	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	25 ns Max
Protection Modes	L-PE N-PE	L-PE N-PE	L-PE N-PE	L-PE N-PE	L-PE N-PE
Short Circuit Current Rating (Isccr)	25kA 50kA	25kA 50kA	25kA 50kA	25kA 50kA	25kA 50kA
Temporary Over Voltage 120 min (Ut/mode)	229 V Withstand	442 V Safe Fail	915 V Safe Fail	114 V Withstand	1143 V Safe Fail
Temporary Over Voltage Withstand 5 s (Ut)	229V	337V	697V	114V	871V
Nominal Discharge Current (In), UL	20kA 8/20 µs	20kA 8/20 µs	20kA 8/20 µs	20kA 8/20 µs	20kA 8/20 µs
Short Circuit Current Rating (SCCR)	200kA	150kA	200kA	100kA	200kA
Voltage Protection Rating (VPR)	700V	900V	2000V	330V	2500V
Technology	Thermal Disconnect	Thermal Disconnect	Thermal Disconnect	Thermal Disconnect	Thermal Disconnect
Connection, Solid	35 mm² Max	35 mm² Max	35 mm² Max	35 mm² Max	35 mm² Max
Connection, Stranded	25 mm² Max	25 mm² Max	25 mm² Max	25 mm² Max	25 mm² Max
Torque (TQ)	4.5 N·m	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	5 - 95
Temperature	-35 to 85 °C	-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	UL® 94V-0 Thermoplastic
Enclosure Rating	IP 20	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	35 mm top hat DIN rail

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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	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	Yes
Status Indication	Mechanical flag	Mechanical flag	Mechanical flag	Mechanical flag	Mechanical flag
Depth (D)	69mm	69mm	69mm	69mm	69mm
Height (H)	90 mm	90 mm	90 mm	90 mm	90 mm
Width (W)	36 mm	36 mm	36 mm	36 mm	36 mm
Unit Weight	0.25 kg	0.27 kg	0.27 kg	0.27 kg	0.32 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	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	EN 61643-11 Type 2 IEC® 61643-11 Class II
Replacement Module	DT2150M	DT2300M	DT2550M	DT275M	DT2750M
Certifications		UR, VDE, CE, ERICO DT2 Series, 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.

North America

+1.800.753.9221

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Support

Europe

Netherlands:

+31 800-0200135

France:

+33 800 901 793

Europe

Germany:

800 1890272

Other Countries:

+31 13 5835404

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