

DT2 DIN Rail Surge Protection Class II, 1+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

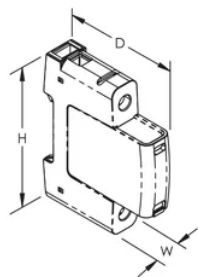
SPECIFICATIONS

Catalog Number	DT27510R	DT215010R	DT230010R	DT235010R	DT255010R	DT275010R
Nominal System Voltage (Un)	60 V	120 V	240 V	277 V	480 V	600 V
Max Continuous Operating Voltage (Uc)	75 V	150 V	300 V	350 V	550 V	750 V

CatalogNumber	DT27510R	DT215010R	DT230010R	DT235010R	DT255010R	DT275010R
Nominal Discharge Current (In), IEC	20kA 8/20 µs	20kA 8/20 µs	20kA 8/20 µs	20kA 8/20 µs	20kA 8/20 µs	20kA 8/20 µs
Max Discharge Current (Imax), IEC	50kA 8/20 µs	50kA 8/20 µs	50kA 8/20 µs	50kA 8/20 µs	50kA 8/20 µs	35kA 8/20 µs
Voltage Protection Level (Up)	800V	1250V	1500V	1750V	2500V	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	250 A @ 50 kA 315 A @ 25 kA
Frequency	50 - 60 Hz	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	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 L-N L-PEN	L-PE N-PE L-N L-PEN	L-PE N-PE (TN-S) L-PEN L-N	L-N L-PE L-PEN N-PE
Short Circuit Current Rating (Isccr)	25kA 50kA	25kA 50kA	25kA 50kA	25kA 50kA	25kA 50kA	25kA 50kA
Temporary Over Voltage 120 min (Ut/mode)	114 V Withstand	229 V Safe Fail	442 V Safe Fail	529 V Safe Fail	915 V Safe Fail	1143 V Safe Fail
Temporary Over Voltage Withstand 5 s (Ut)	114V	229V	337V	403V	697V	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	20kA 8/20 µs
Short Circuit Current Rating (SCCR)	100kA	200kA	150kA	200kA	200kA	200kA
Voltage Protection Rating (VPR)	330V	700V	900V	1000V	2000V	2500V
Technology	Thermal Disconnect	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	35 mm² Max
Connection, Stranded	25 mm² Max	25 mm² Max	25 mm² Max	25 mm² Max	25 mm² Max	25 mm² Max

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Torque (TQ)	4.5 N·m	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	5 - 95
Temperature	-35 to 85 °C	-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	UL® 94V-0 Thermoplastic
Enclosure Rating	IP 20	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 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 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	Yes	Yes
Status Indication	Mechanical flag	Mechanical flag	Mechanical flag	Mechanical flag	Mechanical flag	Mechanical flag
Depth (D)	69mm	69mm	69mm	69mm	69mm	69mm
Height (H)	90 mm	90 mm	90 mm	90 mm	90 mm	90 mm
Width (W)	18 mm	18 mm	18 mm	18 mm	18 mm	18 mm
Unit Weight	0.12 kg	0.13 kg	0.14 kg	0.14 kg	0.15 kg	0.16 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	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	EN 61643-11 Type 2 IEC® 61643-11 Class II
Replacement Module	DT275M	DT2150M	DT2300M	DT2350M	DT2550M	DT2750M

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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