

DT2 DIN Rail Surge Protection Class II, 4+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

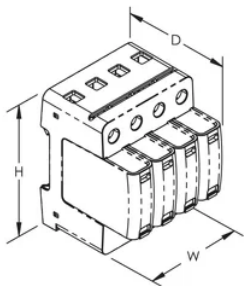
SPECIFICATIONS

Catalog Number	DT255040R	DT230040R	DT235040R	DT248040R
Nominal System Voltage (Un)	480 V	240 V	277 V	400 V
Max Continuous Operating Voltage (Uc)	550 V	300 V	350 V	480 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

Catalog Number	DT255040R	DT230040R	DT235040R	DT248040R
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)	2500V	1500V	1750V	2300V
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-PE N-PE	L-PE N-PE	L-PE N-PE
Short Circuit Current Rating (Isccr)	25kA 50kA	25kA 50kA	25kA 50kA	25kA 50kA
Temporary Over Voltage 120 min (Ut/mode)	915 V Safe Fail	442 V Safe Fail	529 V Safe Fail	762 V Safe Fail
Temporary Over Voltage Withstand 5 s (Ut)	697V	337V	403V	581V
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)	200kA	150kA	200kA	200kA
Voltage Protection Rating (VPR)	2000V	900V	1000V	1500V
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 DIN Rail, EN 60715	35 mm top hat DIN rail	35 mm top hat DIN rail	35 mm top hat DIN rail
Remote Contact Switching Capacity	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	1 A @ 250 VAC 1 A @ 125 VAC 0.5 A @ 48 VDC 0.5 A @ 24 VDC 0.5 A @ 12 VDC

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Remote Contacts	Yes	Yes	Yes	Yes
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)	72 mm	72 mm	72 mm	72 mm
Unit Weight	0.54 kg	0.51 kg	0.53 kg	0.55 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	DT2550M	DT2300M	DT2350M	DT2480M
Certifications		VDE, CE, ERICO DT2 Series, UR, cUR	VDE, CE, ERICO DT2 Series	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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