

DT1 DIN RAIL SURGE PROTECTION CLASS I+II 12.5 KA, 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

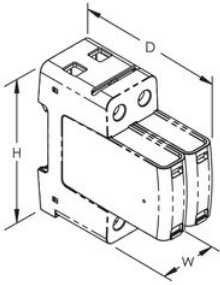
Red/Green status indication and change-over contacts standard for remote monitoring

SPECIFICATIONS

Product Attribute	SKU	SKU	SKU
Catalog Number	DT115020R	DT130020R	DT175020R
Nominal System Voltage (Un)	120 V	240 V	600 V
Max Continuous Operating Voltage (Uc)	150 V	300 V	750 V
Nominal Discharge Current (In), IEC	20 kA 8/20 μ s	20 kA 8/20 μ s	20 kA 8/20 μ s
Max Discharge Current (Imax), IEC	50 kA 8/20 μ s	50 kA 8/20 μ s	35 kA 8/20 μ s
Impulse Current (Iimp)	12.50 kA 10/350 μ s	12.50 kA 10/350 μ s	5 kA 10/350 μ s
Voltage Protection Level (Up)	1,000 V	1,400 V	2,700 V
Response Time	25 ns Max	25 ns Max	25 ns Max
Short Circuit Current Rating (Iscrr)	25 kA 50 kA	25 kA 50 kA	50 kA
Frequency	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz

Product Attribute	SKU	SKU	SKU
Back-Up Fuse @ Isccr	250 A @ 50 kA 315 A @ 25 kA	250 A @ 50 kA 315 A @ 25 kA	250 A @ 50 kA
Protection Modes	L-N N-PE	L-N N-PE	L-N N-PE
Temporary Over Voltage 120 min (Ut/mode)	229 V Safe Fail	442 V Safe Fail	1143 V Safe Fail
Temporary Over Voltage Withstand 5 s (Ut)	175 V	337 V	871 V
Voltage Protection Rating (VPR)	700 V	900 V	2,500 V
Nominal Discharge Current (In), UL	20 kA 8/20 μ s	20 kA 8/20 μ s	20 kA 8/20 μ s
Replacement Module	DT1150M	DT1300M	DT1750M
Short Circuit Current Rating (SCCR)	200 kA	150 kA	150 kA
Technology	Thermal Disconnect	Thermal Disconnect	Thermal Disconnect
Torque(TQ)	3.32 ft lb	3.32 ft lb	3.32 ft lb
Connection, Stranded	#4 Max	#4 Max	#4 Max
Connection, Solid	#2 Max	#2 Max	#2 Max
Humidity	5 – 95 % RH	5 – 95 % RH	5 – 95 % RH
Temperature	-31 to 185 °F	-31 to 185 °F	-31 to 185 °F
Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic
Enclosure Rating	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
Remote Contacts	Yes	Yes	Yes
Status Indication	Mechanical flag	Mechanical flag	Mechanical flag
Remote Contact Switching Capacity	0.5 A @ 12 VDC 0.5 A @ 24 VDC 0.5 A @ 48 VDC 1.0 A @ 125 VAC 1.0 A @ 250 VAC	0.5 A @ 12 VDC 0.5 A @ 24 VDC 0.5 A @ 48 VDC 1.0 A @ 125 VAC 1.0 A @ 250 VAC	0.5 A @ 12 VDC 0.5 A @ 24 VDC 0.5 A @ 48 VDC 1.0 A @ 125 VAC 1.0 A @ 250 VAC
Depth(D)	3.350"	3.350"	3.350"
Height(H)	3.540"	3.540"	3.540"
Width(W)	1.420"	1.420"	1.420"
Unit Weight	0.717 lb	0.779 lb	0.880 lb
Certification Details	UL® 1449 Edition 4 Type 1CA	UL® 1449 Edition 4 Type 1CA	UL® 1449 Edition 4 Type 1CA
Complies With	EN 61643-11 Type 1, Type 2 IEC® 61643-11 Class I, Class II	EN 61643-11 Type 1, Type 2 IEC® 61643-11 Class I, Class II	EN 61643-11 Type 1, Type 2 IEC® 61643-11 Class I, Class II
Certifications		CE, ERICO DT1 Series, cUR, UR, VDE	

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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