

EDT2 Enhanced DIN Rail Surge Protection Class II, 1+1 Mode



CERTIFICATIONS



FEATURES

Includes nVent ERICO TD Technology to ensure reliability throughout adverse voltage conditions

Enhanced temporary over voltage (TOV) withstand capability

External back-up fuse is not required up to 315 A (IEC only)

Compact, yet high surge rated pluggable design, using minimum DIN rail width

Retaining clip ensures enhanced vibration and shock resistance performance

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

SPECIFICATIONS

Catalog Number	EDT27511R	EDT230011R
Nominal System Voltage (Un)	60 V	240 V
Max Continuous Operating Voltage (Uc)	75 V L-N 305 V N-PE	300 V L-N 305 V N-PE

Catalog Number	EDT27511R	EDT230011R
Nominal Discharge Current (In), IEC, L-N	20kA 8/20 µs	20kA 8/20 µs
Nominal Discharge Current (In), IEC, N-PE	40kA 8/20 µs	40kA 8/20 µs
Max Discharge Current (Imax), IEC, L-N	50kA 8/20 µs	50kA 8/20 µs
Max Discharge Current (Imax), IEC, N-PE	65kA 8/20 µs	65kA 8/20 µs
Voltage Protection Level (Up), L-N	800V	1650V
Voltage Protection Level (Up), N-PE	1500V	1500V
Back-Up Fuse @ Isccr	250 A @ 50 kA 315 A @ 25 kA	250 A @ 50 kA 315 A @ 25 kA
Frequency	50 - 60 Hz	50 - 60 Hz
Response Time, L-N	25 ns Max	25 ns Max
Response Time, N-PE	100 ns Max	100 ns Max
Protection Modes	L-N N-PE	L-N N-PE
Short Circuit Current Rating (Isccr)	25kA 50kA	25kA 50kA
Temporary Over Voltage 120 min (Ut/mode), L-N	150 V Withstand	442 V Withstand
Temporary Over Voltage Withstand 200 ms (Ut), N-PE	1200V	1200V
Nominal Discharge Current (In), UL	20kA 8/20 µs	20kA 8/20 µs
Short Circuit Current Rating (SCCR)	85kA	150kA
Voltage Protection Rating (VPR), L-N	500V	1200V
Voltage Protection Rating (VPR), N-PE	1000V	1000V
Technology	Thermal Disconnect	Thermal Disconnect
Connection, Solid	35 mm² Max	35 mm² Max
Connection, Stranded	25 mm² Max	25 mm² Max
Torque (TQ)	4.5 N·m	4.5 N·m
Humidity	5 - 95	5 - 95
Temperature	-35 to 85 °C	-35 to 85 °C
Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic
Enclosure Rating	IP 20	IP 20
Mounting	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
Remote Contacts	Yes	Yes
Status Indication	Mechanical flag	Mechanical flag
Depth (D)	69mm	69mm
Height (H)	90 mm	90 mm
Width (W)	36 mm	36 mm
Unit Weight	0.23 kg	0.24 kg
Certification Details	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
Replacement Module	SGT240M EDT275M	SGT240M EDT2300M

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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