



We connect and protect

# nVent ERICO DTX and DT

Product Selection Guide



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**Note:** Product application information given in this document is of a general nature. Installers of the product are cautioned to ensure product is always installed in accordance with any applicable National Standards, Codes, and Practices.

# Certified Surge Protection Devices



nVent ERICO surge protective devices (SPDs) provide the option for traditional construction or TD technology. For example, the DT product line features traditional construction, while the EDT product line features with TD technology. These product lines have been designed and independently tested and certified to the latest editions of both IEC 61643-11 and UL 1449.

This provides the user of the product peace of mind that the products will perform safely in application, and also perform to the claimed ratings provided. Both these standards have stringent tests that are not easy to pass, but essential to ensure the product is designed well for safe behavior, and for effective protection performance to the product ratings.

Compliance to these standards are required by code in many countries, however still many countries around the world do not require compliance, leaving those countries vulnerable to poorly performing products.

An informed buyer will avoid non-compliant product, instead demanding compliance to one or both of these standards, factually verified by an independent third party test laboratory certificate. Compliance to these standards alone however should be considered a benchmark or minimum



requirement, as there are certain enhanced performance requirements that may be advantageous for some applications.

One example of this is how the SPD performs during an AC overvoltage

event. In both standards referenced above, the requirement is for the SPD to safely disconnect from service during these events, however a better solution is for the SPD to survive such an event, thereby continuing to provide protection to your valuable equipment being protected.

nVent ERICO's TD technology delivers just that, a true step-up in performance for SPDs. Our SPDs with TD technology have been designed to be unaffected by the AC overvoltages applied during testing, while not compromising the clamping performance. This provides them with the ability to survive extreme overvoltage conditions and still be operational afterwards to protect your valuable equipment from subsequent surges and transients.

This extends greatly the life expectancy of the SPD within the most extreme environments, saving maintenance work and reducing operational downtime.

# Products

## AC Power Surge Protection

### DT1

The DIN Rail mounted DT1 family of SPDs provide reliable and efficient protection against voltage transients within the IEC Class I & II environments and is certified to UL Type 1 CA. Tested and independently certified to the IEC (via VDE) and UL standards, the DT1 Series provides a range of safety and performance features for the harshest environments and suitable for protection within a wide range of applications.

### DT2

The DIN Rail mounted DT2 family provides many of the same benefits as the DT1 Series but is specifically designed to fit within the parameters of IEC Class II environments and is certified to UL Type 1 CA. Targeting the Class II / Type 1 CA classification allows the system designer to effectively select the correct coordinated protection while keeping total project costs in check.

### EDT2

The DIN Rail mounted EDT2 family of SPDs provide reliable protection against voltage transients within the IEC Class II environments and is certified to UL Type 1 CA. In addition, nVent ERICO's Transient Discriminating (TD) technology ensures continued operation during and after sustained and abnormal over-voltage events. Tested and independently certified to the IEC (via VDE) and UL standards, the EDT2 Series provides a range of safety and performance features for the harshest environments and suitable for protection within a wide range of applications. The EDT2 Series provides extended service life in the harshest of environments, ensuring your equipment and systems are kept safe and operational through extreme abnormal voltage conditions.

### DTX Panel Protector

The nVent ERICO DTX120 and DTX240 Series of Surge Protective Devices (SPD) features a cUL 1449 listing and provides premium protection against damaging transients and surge currents, particularly in Type 1 and Type 2 locations. The innovative design is Field Serviceable and also includes RS-485 Connectivity for integration into Building Automation Systems. With a 120–240 kA per phase surge rating, nVent ERICO DTX120 and DTX240 are well suited for category C locations and is typically used in applications including service entrances, distribution, branch panels, MCC, lighting panels, HVAC, and more. The nVent ERICO DTX120 also features a NEMA®-4X enclosure rating, making it suitable for outdoor applications.



# DT Panel Protector (B), 120 kA



## Features

- Excellent clamping and low UL voltage protection ratings
- Features relay alarming for power/phase loss and status of SPD health
- Design allows for easy removal and replacement of surge modules via lever assist
- RS-485 Interface Standard
- 10 Year Warranty

The nVent ERICO DTX120 Series of Surge Protective Devices (SPD) features a cUL 1449 listing and provides premium protection against damaging transients and surge currents, particularly in Type 1 and Type 2 locations. The innovative design allows for installation either on the line or load of the service panels and removes the need for circuit breakers (B Version Only). With a 120 kA per phase surge

rating, nVent ERICO DTX120 is well suited for category C locations and is typically used in applications including service entrances, distribution, branch panels, MCC, lighting panels, HVAC, and more. The nVent ERICO DTX120 also features a NEMA®-4X enclosure rating, making it suitable for outdoor applications.

Part Number	DTX120 B120240SP	DTX120 B120240HD	DTX120 B208Y	DTX120 B240D	DTX120 B480D	DTX120 B480Y
Nominal System Voltage (U <sub>n</sub> )	120/240 V	120/240 V	120/208 V	240 VAC	480 V	277/480 V
Max Continuous Operating Voltage (U <sub>c</sub> )	150/300 VAC	150/275 VAC	150/300 VAC	275 VAC	510 VAC	350/700 VAC
Distribution System	1Ph 3 W+G	3PhΔ 4 W+G	3Ph 4 W+G	3PhΔ 3 W+G	3PhΔ 3 W+G	3Ph 4 W+G
Protection Modes	L-N, L-PE, N-PE	L-N, L-PE, N-PE	L-N, L-PE, N-PE	L-PE	L-PE	L-N, L-PE, N-PE
Frequency	50–60 Hz					
Short Circuit Current Rating (SCCR)	200 kA					
Nominal Discharge Current (I <sub>n</sub> ), UL	20 kA 8/20 μs					
Max Discharge Current (I <sub>max</sub> ), Per Phase	120 kA 8/20 μs					
Impulse Current (I <sub>imp</sub> ), Per Mode	12.5 kA 10/350 μs					
Voltage Protection Rating (VPR), L-G	700 V	1,200 V	700 V	1,000 V	1,800 V	1,200 V
Voltage Protection Rating (VPR), L-L	1,000 V	1,500 V	1,200 V	1,000 V	1,800 V	2,000 V
Voltage Protection Rating (VPR), L-N	700 V	800 V	700 V	–	–	1,200 V
Voltage Protection Rating (VPR), N-G	700 V	1,500 V	600 V	–	–	1,200 V
Status Indication	Audible alarm with silence switch. Dual color status LED, Mechanical flag, OLED Display, Resettable Surge/TOV Counter					
Technology	Hybrid technology utilizing thermal disconnects					
Remote Contacts	Yes (Form C)					
Temperature	–40 to 176°F					
Mounting	4 Screw Locations					
Enclosure Rating	NEMA 4X; UL 50E Type 4					
Enclosure Material	Metal with PC Lid					
Certification Details	CSA C22.2 No. 269.2; UL® 1449 Edition 5 Type 1/2, 20 kA Mode					
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C					
Unit Weight	5.95 lb	6.4 lb	6.3 lb	6.15 lb	6.35 lb	6.78 lb
Dimensions H x D x W	13.02" x 3.87" x 4"					
Lead Size	#14–#6					
Replacement Module	DT2180DTXM	DT2180DTXM DT2275DTXM	DT2150DTXM	DT2275DTXM	DT2510DTXM	DT2350M

# DT Panel Protector (F), 120 kA



## Features

- Excellent clamping and low UL voltage protection ratings
- Features relay alarming for power/phase loss and status of SPD health
- Design allows for easy removal and replacement of surge modules via lever assist
- RS-485 Interface Standard
- Up to 53 dB attenuation (10 kHz to 100 MHz)
- 10 Year Warranty

The nVent ERICO DTX120 Series of Surge Protective Devices (SPD) features a cUL 1449 listing and provides premium protection against damaging transients and surge currents, particularly in Type 1 and Type 2 locations. The innovative design allows for installation either on the line or load of the service panels and removes the need for circuit breakers (B Version Only). With a 120 kA per phase surge

rating, nVent ERICO DTX120 is well suited for category C locations and is typically used in applications including service entrances, distribution, branch panels, MCC, lighting panels, HVAC, and more. The nVent ERICO DTX120 also features a NEMA®-4X enclosure rating, making it suitable for outdoor applications.

Part Number	DTX120 F120240SP	DTX120 F120240HD	DTX120 F208Y	DTX120 F240D	DTX120 F480D	DTX120 F480Y
Nominal System Voltage (U <sub>n</sub> )	120/240 V	120/240 V	120/208 V	240 VAC	480 V	277/480 V
Max Continuous Operating Voltage (U <sub>c</sub> )	150/300 VAC	150/275 VAC	150/300 VAC	275 VAC	510 VAC	350/700 VAC
Distribution System	1Ph 3 W+G	3PhΔ 4 W+G	3Ph 4 W+G	3PhΔ 3 W+G	3PhΔ 3 W+G	3Ph 4 W+G
Protection Modes	L-N, L-PE, N-PE	L-N, L-PE, N-PE	L-N, L-PE, N-PE	L-PE	L-PE	L-N, L-PE, N-PE
Frequency	50–60 Hz					
Short Circuit Current Rating (SCCR)	200 kA					
Nominal Discharge Current (I <sub>n</sub> ), UL	20 kA 8/20 μs					
Max Discharge Current (I <sub>max</sub> ), Per Phase	120 kA 8/20 μs					
Impulse Current (I <sub>imp</sub> ), Per Mode	12.5 kA 10/350 μs					
Filtering	–29 dB @ 100 kHz					
Voltage Protection Rating (VPR), L-G	700 V	1,200 V	700 V	1,000 V	1,800 V	1,200 V
Voltage Protection Rating (VPR), L-L	1,000 V	1,500 V	1,200 V	1,000 V	1,800 V	2,000 V
Voltage Protection Rating (VPR), L-N	700 V	800 V	700 V	–	–	1,200 V
Voltage Protection Rating (VPR), N-G	700 V	1,500 V	600 V	–	–	1,200 V
Status Indication	Audible alarm with silence switch. Dual color status LED, Mechanical flag, OLED Display, Resettable Surge/TOV Counter					
Technology	Hybrid technology utilizing thermal disconnects					
Remote Contacts	Yes (Form C)					
Temperature	–40 to 176°F					
Mounting	4 Screw Locations					
Enclosure Rating	NEMA 4X; UL 50E Type 4					
Enclosure Material	Metal with PC Lid					
Certification Details	CSA C22.2 No. 269.2; UL® 1283 Edition 7; UL® 1449 Edition 5 Type 2, 20 kA Mode					
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C; Mil-Std 220 A					
Unit Weight	6.4 lb	5.95 lb	6.3 lb	6.15 lb	6.35 lb	6.78 lb
Dimensions H x D x W	13.02" x 3.87" x 4"					
Lead Size	#14–#6					
Replacement Module	DT2180DTXM	DT2180DTXM DT2275DTXM	DT2150DTXM	DT2275DTXM	DT2510DTXM	DT2350M

# DT Panel Protector (B), 240 kA



## Features

- Excellent clamping and low UL voltage protection ratings
- Features relay alarming for power/phase loss and status of SPD health
- Design allows for easy removal and replacement of surge modules via lever assist
- RS-485 Interface Standard
- 10 Year Warranty

The nVent ERICO DTX240 Series of Surge Protective Devices (SPD) features a cUL 1449 listing and provides premium protection against damaging transients and surge currents, particularly in Type 1 and Type 2 locations. The innovative design allows for installation either on the line or load of the service panels and removes the need for circuit breakers (B Version Only).

With a 240 kA per phase surge rating, nVent ERICO DTX240 is well suited for category C locations and is typically used in applications including service entrances, distribution, branch panels, MCC, lighting panels, HVAC, and more. The nVent ERICO DTX240 also features a NEMA®-4X enclosure rating, making it suitable for outdoor applications.

Part Number	DTX240 B120240SP	DTX240 B120240HD	DTX240 B208Y	DTX240 B240D	DTX240 B480D	DTX240 B480Y
Nominal System Voltage (U <sub>r</sub> )	120/240 V	120/240 V	120/208 V	240 VAC	480 V	277/480 V
Max Continuous Operating Voltage (U <sub>c</sub> )	150/300 VAC	150/275 VAC	150/300 VAC	275 VAC	510 VAC	350/700 VAC
Distribution System	1Ph 3 W+G	3PhΔ 4 W+G	3Ph 4 W+G	3PhΔ 3 W+G	3PhΔ 3 W+G	3Ph 4 W+G
Protection Modes	L-N, L-PE, N-PE	L-N, L-PE, N-PE	L-N, L-PE, N-PE	L-PE	L-PE	L-N, L-PE, N-PE
Frequency	50–60 Hz					
Short Circuit Current Rating (SCCR)	200 kA					
Nominal Discharge Current (I <sub>n</sub> ), UL	20 kA 8/20 μs					
Max Discharge Current (I <sub>max</sub> ), Per Phase	240 kA 8/20 μs					
Impulse Current (I <sub>imp</sub> ), Per Mode	12.5 kA 10/350 μs					
Voltage Protection Rating (VPR), L-G	700 V	1,200 V	700 V	1,000 V	1,800 V	1,200 V
Voltage Protection Rating (VPR), L-L	1000 V	1,500 V	1,200 V	1,000 V	1,800 V	1,800 V
Voltage Protection Rating (VPR), L-N	600 V	800 V	700 V	–	–	1,200 V
Voltage Protection Rating (VPR), N-G	600 V	1,500 V	700 V	–	–	1,200 V
Status Indication	Audible alarm with silence switch. Dual color status LED, Mechanical flag, OLED Display, Resettable Surge/TOV Counter					
Technology	Hybrid technology utilizing thermal disconnects					
Remote Contacts	Yes (Form C)					
Temperature	–40 to 176°F					
Mounting	8 Screw Locations					
Enclosure Rating	NEMA 4X; UL 50E Type 4					
Enclosure Material	Metal with PC Lid					
Certification Details	CSA C22.2 No. 269.2; UL® 1449 Edition 5 Type 1/2, 20 kA Mode					
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C					
Unit Weight	10.98 lb	11.86 lb	11.86 lb	11.42 lb	11.68 lb	12.02 lb
Dimensions H x D x W	13.02" x 3.87" x 8.76"					
Lead Size	#14–#6					
Replacement Module	DT2180DTXM	DT2180DTXM DT2275DTXM	DT2150DTXM	DT2275DTXM	DT2510DTXM	DT2350M

# DT Panel Protector (F), 240 kA



The nVent ERICO DTX240 Series of Surge Protective Devices (SPD) features a cUL 1449 listing and provides premium protection against damaging transients and surge currents, particularly in Type 1 and Type 2 locations. The innovative design allows for installation either on the line or load of the service panels and removes the need for circuit breakers (B Version Only). With a 240 kA per phase surge

## Features

- Excellent clamping and low UL voltage protection ratings
- Features relay alarming for power/phase loss and status of SPD health
- Design allows for easy removal and replacement of surge modules via lever assist
- RS-485 Interface Standard
- Up to 53 dB attenuation (10 kHz to 100 MHz)
- 10 Year Warranty

rating, nVent ERICO DTX240 is well suited for category C locations and is typically used in applications including service entrances, distribution, branch panels, MCC, lighting panels, HVAC, and more. The nVent ERICO DTX240 also features a NEMA®-4X enclosure rating, making it suitable for outdoor applications.

Part Number	DTX240 F120240SP	DTX240 F120240HD	DTX240 F208Y	DTX240 F240D	DTX240 F480D	DTX240 F480Y
Nominal System Voltage (U <sub>n</sub> )	120/240 V	120/240 V	120/208 V	240 VAC	480 V	277/480 V
Max Continuous Operating Voltage (U <sub>c</sub> )	150/300 VAC	150/275 VAC	150/300 VAC	275 VAC	510 VAC	350/700 VAC
Distribution System	1Ph 3 W+G	3PhΔ 4 W+G	3Ph 4 W+G	3PhΔ 3 W+G	3PhΔ 3 W+G	3Ph 4 W+G
Protection Modes	L-N, L-PE, N-PE	L-N, L-PE, N-PE	L-N, L-PE, N-PE	L-PE	L-PE	L-N, L-PE, N-PE
Frequency	50–60 Hz					
Short Circuit Current Rating (SCCR)	200 kA					
Nominal Discharge Current (I <sub>n</sub> ), UL	20 kA 8/20 μs					
Max Discharge Current (I <sub>max</sub> ), Per Phase	240 kA 8/20 μs					
Impulse Current (I <sub>imp</sub> ), Per Mode	12.5 kA 10/350 μs					
Filtering	–29 dB @ 100 kHz					
Voltage Protection Rating (VPR), L-G	700 V	1,200 V	700 V	1,000 V	1,800 V	1,200 V
Voltage Protection Rating (VPR), L-L	1,200 V	1,500 V	1,200 V	1,000 V	1,800 V	1,800 V
Voltage Protection Rating (VPR), L-N	600 V	800 V	700 V	–	–	1,200 V
Voltage Protection Rating (VPR), N-G	600 V	1,500 V	700 V	–	–	1,200 V
Status Indication	Audible alarm with silence switch. Dual color status LED, Mechanical flag, OLED Display, Resettable Surge/TOV Counter					
Technology	Hybrid technology utilizing thermal disconnects					
Remote Contacts	Yes (Form C)					
Temperature	–40 to 176°F					
Mounting	8 Screw Locations					
Enclosure Rating	NEMA 4X; UL 50E Type 4					
Enclosure Material	Metal with PC Lid					
Certification Details	CSA C22.2 No. 269.2; UL® 1283 Edition 7; UL® 1449 Edition 5 Type 2, 20 kA Mode					
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C; ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C; Mil-Std 220 A					
Unit Weight	10.98 lb	11.86 lb	11.86 lb	11.42 lb	11.68 lb	12.02 lb
Dimensions H x D x W	13.02" x 3.87" x 8.76"					
Lead Size	#14–#6					
Replacement Module	DT2180DTXM	DT2180DTXM DT2275DTXM	DT2150DTXM	DT2275DTXM	DT2510DTXM	DT2350M



# DT and EDT SPD Features

Packed with features and benefits for the user, the DT and EDT line from nVent ERICO represents the latest in product design, development and testing.



**SPD STATUS INDICATION**



**ALARM CONTACTS ALLOW REMOTE STATUS MONITORING**

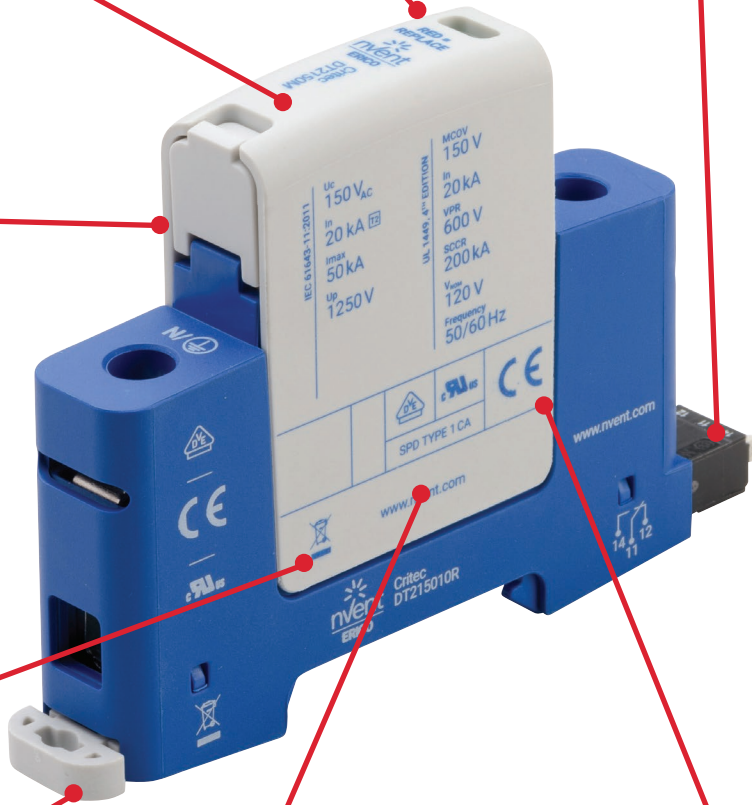
**ADVANCED DESIGN AVOIDS FUSING IN MANY INSTALLATIONS**



**CLIP LOCKS MODULE IN PLACE FOR VIBRATION RESISTANCE**



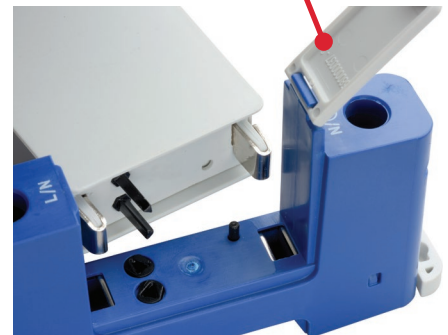
**CONVENIENT MODULE AND BASE DESIGN**



**LOCK BACK CLIP MAKES FOR EASY INSTALLATION**

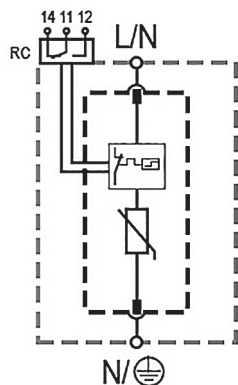


**KEYING MECHANISM ENSURES CORRECT MODULE**



**RUGGED CONNECTION TO BASE HANDLES HIGH SURGE CURRENT**

# DT1 DIN Rail Surge Protection IEC Class I+II, 1+0 Mode



## Features

- 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

**Certification Details:** IEC 61643-11 Class I+II, EN 61643-11 Type 1+2, UL 1449, 5th Edition Type 1CA

**Complies with:** IEC 61643-11:2011, EN 61643-11:2012, UL 1449, 5th Edition, CSA C22.2 No. 269-4

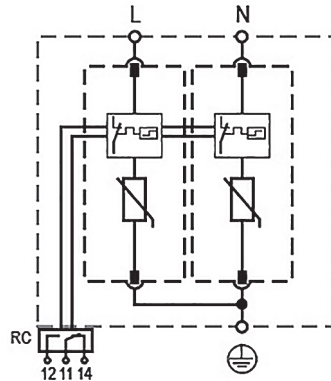
**Protection Modes:** L-PE, N-PE (only TN-S), L-PE/N, L-N, L-L



Part Number	DT17510R	DT115010R	DT130010R	DT135010R	DT148010R	DT175010R
<b>UL Electrical</b>						
UL Nominal Voltage	60 V	120 V	240 V	277 V	400 V	600 V
Maximum Continuous Operating Voltage (AC) MCOV	75 V	150 V	300 V	350 V	480 V	750 V
Voltage Protection Rating VPR	330 V	500 V	900 V	1200 V	1500 V	2500 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC) SCCR	100 kA	200 kA	150 kA	150 kA	200 kA	150 kA
<b>IEC Electrical</b>						
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	60 V	120 V	240 V	277 V	400 V	600 V
Maximum Continuous Operating Voltage (AC) $U_c$	75 V	150 V	300 V	350 V	480 V	750 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA					
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	100 kA	100 kA	100 kA	100 kA	100 kA	60 kA
Impulse Discharge Current (10/350 $\mu$ s) $I_{imp}$	12.5 kA	12.5 kA	12.5 kA	12.5 kA	10 kA	5 kA
Specific Energy W/R	39 kJ/ $\Omega$	39 kJ/ $\Omega$	39 kJ/ $\Omega$	39 kJ/ $\Omega$	25 kJ/ $\Omega$	6.25 kJ/ $\Omega$
Charge Q	6.25 As	6.25 As	6.25 As	6.25 As	5 As	2.5 As
Voltage Protection Level $U_p$	700 V	1000 V	1400 V	1500 V	2000 V	2700 V
Response Time $t_A$	< 25 ns					
Back-Up Fuse (max)	315 A/250 A gG					250 A gG
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA / 50 kA					50 kA
TOV Withstand 5s $U_T$	114 V	175 V	337 V	403 V	581 V	871 V
TOV 120 min $U_{Tmode}$	114 V/withstand	229 V/safe fail	442 V/safe fail	529 V/safe fail	762 V/safe fail	1143 V/safe fail
Number of Ports	1					
<b>Mechanical</b>						
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)					
Permissible Operating Humidity RH	5%...95%					
Altitude	6562 ft [2000 m]					
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]					
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid) / 25 mm <sup>2</sup> (Stranded), 2 AWG (Solid) / 4 AWG (Stranded)					
Mounting	35 mm DIN Rail, EN 60715					
Degree of Protection	IP 20					
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0					
Thermal Protection	Yes					
Operating State / Fault Indication	Green Flag / Not Green Flag					
Remote Contacts (RC)	Yes					
RC Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A					
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)					
Single Unit Weight pounds	0.371	0.371	0.402	0.437	0.446	0.452
Single Unit Weight grams	168	168	182	198	202	205

\*Other voltages and configurations available upon request

# DT1 DIN Rail Surge Protection IEC Class I+II, 2+0 Mode



## Features

- 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

**Certification Details:** IEC 61643-11 Class I+II  
EN 61643-11 Type 1+2  
UL 1449, 5th Edition Type 1CA

**Complies with:** IEC 61643-11:2011  
EN 61643-11:2012  
UL 1449, 5th Edition  
CSA C22.2 No. 269-4

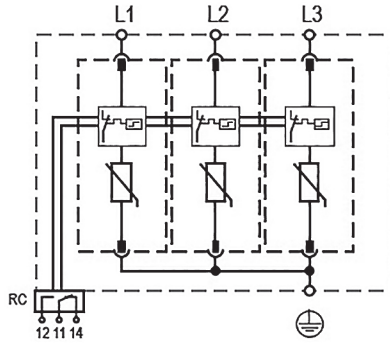
**Protection Modes:** L-PE, N-PE, L-L



Part Number	DT115020R	DT130020R	DT135020R	DT175020R
UL Electrical				
UL Nominal Voltage	240/120 V 1S 208/120 V 3Y	415/240 V 3Y 240 V 3D	480/277 V 3Y 240 V 3D	347/600 V 3Y
Maximum Continuous Operating Voltage (AC) MCOV	150 V/300 V	300 V/600 V	350 V/700 V	750 V/1500 V
Voltage Protection Rating VPR	500 V/1000 V	900 V/1800 V	1200 V/2000 V	2500 V/5000 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC) SCCR	200 kA	150 kA	150 kA	150 kA
IEC Electrical				
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	120 V	240 V	277 V	600 V
Maximum Continuous Operating Voltage (AC) $U_c$	150 V	300 V	350 V	750 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA			
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	100 kA	100 kA	100 kA	60 kA
Impulse Discharge Current (10/350 $\mu$ s) $I_{imp}$	12.5 kA	12.5 kA	12.5 kA	5 kA
Specific Energy W/R	39 kJ/Q	39 kJ/Q	39 kJ/Q	6.25 kJ/Q
Charge Q	6.25 As	6.25 As	6.25 As	2.5 As
Voltage Protection Level $U_p$	1000 V	1400 V	1500 V	2700 V
Response Time $t_A$	< 25 ns			
Back-Up Fuse (max)	315 A / 250 A gG			250 A gG
Short-Circuit Current Rating (AC) ISCCR	25 kA / 50 kA			50 kA
TOV Withstand 5s $U_T$	175 V	337 V	403 V	871 V
TOV 120 min $U_{T(mode)}$	229 V/safe fail	442 V/safe fail	529 V/safe fail	1143 V/safe fail
Number of Ports	1			
Mechanical				
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)			
Permissible Operating Humidity RH	5%...95%			
Altitude	6562 ft [2000 m]			
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]			
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid) / 25 mm <sup>2</sup> (Stranded), 2 AWG (Solid) / 4 AWG (Stranded)			
Mounting	35 mm DIN Rail, EN 60715			
Degree of Protection	IP 20			
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection	Yes			
Operating State / Fault Indication	Green Flag / Not Green Flag			
Remote Contacts (RC)	Yes			
RC Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A			
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)			
Single Unit Weight pounds	0.717	0.779	0.849	0.880
Single Unit Weight grams	325	353	385	399

\*Other voltages and configurations available upon request

# DT1 DIN Rail Surge Protection IEC Class I+II, 3+0 Mode



## Features

- 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

**Certification Details:** IEC 61643-11 Class I+II  
EN 61643-11 Type 1+2  
UL 1449, 5th Edition Type 1CA

**Complies with:** IEC 61643-11:2011  
EN 61643-11:2012  
UL 1449, 5th Edition  
CSA C22.2 No. 269-4

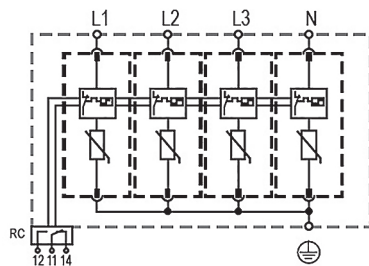
**Protection Modes:** L-PE, N-PE, L-L



Part Number	DT115030R	DT130030R	DT135030R	DT148030R	DT175030R
<b>UL Electrical</b>					
UL Nominal Voltage	208/120 V 3Y 240/120 V 1S	415/240 3Y 240 V 3D	480/277 V 3Y	690/400 V 3Y	600 V 3D 480 V 3D
Maximum Continuous Operating Voltage (AC) MCOV	150 V/300 V	300 V/600 V	350 V/700 V	480 V/960 V	750 V/1500 V
Voltage Protection Rating VPR	500 V/1000 V	900 V/1800 V	1200 V/2000 V	1500 V/3000 V	2500 V/5000 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC) SCCR	200 kA	150 kA	150 kA	200 kA	150 kA
<b>IEC Electrical</b>					
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	120 V	240 V	277 V	400 V	600 V
Maximum Continuous Operating Voltage (AC) $U_c$	150 V	300 V	350 V	480 V	750 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA				
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	100 kA	100 kA	100 kA	100 kA	60 kA
Impulse Discharge Current (10/350 $\mu$ s) $I_{imp}$	12.5 kA	12.5 kA	12.5 kA	10 kA	5 kA
Specific Energy W/R	39 kJ/Q	39 kJ/Q	39 kJ/Q	25 kJ/Q	6.25 kJ/Q
Charge Q	6.25 As	6.25 As	6.25 As	5 As	2.5 As
Voltage Protection Level $U_p$	1000 V	1400 V	1500 V	2000 V	2700 V
Response Time $t_A$	< 25 ns				
Back-Up Fuse (max)	315 A / 250 A gG				250 A gG
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA / 50 kA				50 kA
TOV Withstand 5s $U_T$	175 V	337 V	403 V	581 V	871 V
TOV 120 min $U_{Tmode}$	229 V/safe fail	442 V/safe fail	529 V/safe fail	762 V/safe fail	1143 V/safe fail
Number of Ports	1				
<b>Mechanical</b>					
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)				
Permissible Operating Humidity RH	5%...95%				
Altitude	6562 ft [2000 m]				
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]				
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid) / 25 mm <sup>2</sup> (Stranded), 2 AWG (Solid) / 4 AWG (Stranded)				
Mounting	35 mm DIN Rail, EN 60715				
Degree of Protection	IP 20				
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection	Yes				
Operating State / Fault Indication	Green Flag / Not Green Flag				
Remote Contacts (RC)	Yes				
RC Switching Capacity	AC: 250 V/ 1 A, 125 V/ 1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A				
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)				
Single Unit Weight pounds	1.041	1.133	1.239	1.266	1.286
Single Unit Weight grams	472	514	562	574	583

\*Other voltages and configurations available upon request

# DT1 DIN Rail Surge Protection IEC Class I+II, 4+0 Mode



## Features

- 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

**Certification Details:** IEC 61643-11 Class I+II  
EN 61643-11 Type 1+2  
UL 1449, 5th Edition Type 1CA

**Complies with:** IEC 61643-11:2011  
EN 61643-11:2012  
UL 1449, 5th Edition  
CSA C22.2 No. 269-4

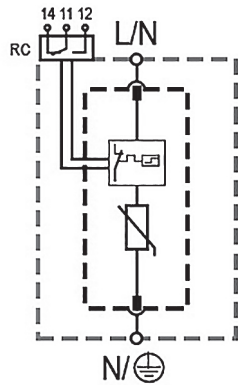
**Protection Modes:** L-PE, N-PE, L-L



Part Number	DT115040R	DT130040R	DT135040R	DT148040R
<b>UL Electrical</b>				
UL Nominal Voltage	208/120 V 3Y	415/240 3Y	480/277 V 3Y	690/400 V 3Y
Maximum Continuous Operating Voltage (AC) MCOV	150 V/300 V	300 V/600 V	350 V/700 V	480 V/960 V
Voltage Protection Rating VPR	500 V/1000 V	900 V/1800 V	1200 V/2000 V	1500 V/2500 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC) SCCR	200 kA	150 kA	150 kA	200 kA
<b>IEC Electrical</b>				
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	120 V	240 V	277 V	400 V
Maximum Continuous Operating Voltage (AC) $U_c$	150 V	300 V	350 V	480 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA			
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	100 kA	100 kA	100 kA	100 kA
Impulse Discharge Current (10/350 $\mu$ s) $I_{imp}$	12.5 kA	12.5 kA	12.5 kA	10 kA
Specific Energy W/R	39 kJ/ $\Omega$	39 kJ/ $\Omega$	39 kJ/ $\Omega$	25 kJ/ $\Omega$
Charge Q	6.25 As	6.25 As	6.25 As	5 As
Voltage Protection Level $U_p$	1000 V	1400 V	1500 V	2000 V
Response Time $t_A$	< 25 ns			
Back-Up Fuse (max)	315 A/250 A gG			
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA/50 kA			
TOV Withstand 5s UT	175 V	337 V	403 V	581 V
TOV 120 min $U_{Tmode}$	229 V/safe fail	442 V/safe fail	529 V/safe fail	762 V/safe fail
Number of Ports	1			
<b>Mechanical</b>				
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)			
Permissible Operating Humidity RH	5%...95%			
Altitude	6562 ft [2000 m]			
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]			
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid)/25 mm <sup>2</sup> (Stranded), 2 AWG (Solid)/4 AWG (Stranded)			
Mounting	35 mm DIN Rail, EN 60715			
Degree of Protection	IP 20			
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection	Yes			
Operating State / Fault Indication	Green Flag / Not Green Flag			
Remote Contacts (RC)	Yes			
RC Switching Capacity	AC: 250 V/ 1 A, 125 V/ 1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A			
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)			
Single Unit Weight pounds	1.396	1.519	1.661	1.696
Single Unit Weight grams	633	689	753	769

\*Other voltages and configurations available upon request

# DT2 DIN Rail Surge Protection IEC Class II, 1+0 Mode



## Features

- 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

**Certification Details:** IEC 61643-11 Class I+II  
EN 61643-11 Type 1+2  
UL 1449, 5th Edition Type 1CA

**Complies with:** IEC 61643-11:2011  
EN 61643-11:2012  
UL 1449, 5th Edition  
CSA C22.2 No. 269-4

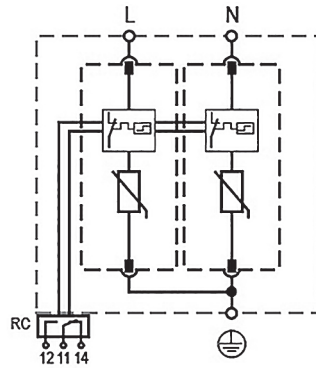
**Protection Modes:** L-N, N-PE, L-L



Part Number	DT27510R	DT215010R	DT230010R	DT235010R	DT248010R	DT255010R	DT275010R
<b>UL Electrical</b>							
UL Nominal Voltage	60 V	120 V	240 V	277 V	400 V	480 V	600 V
Maximum Continuous Operating Voltage (AC) MCOV	75 V	150 V	300 V	350 V	480 V	550 V	750 V
Voltage Protection Rating VPR	330 V	600 V	900 V	1000 V	1500 V	2000 V	2500 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA						
Short-Circuit Current Rating (AC) SCCR	100 kA	200 kA	150 kA	200 kA	200 kA	200 kA	200 kA
<b>IEC Electrical</b>							
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	60 V	120 V	240 V	277 V	400 V	480 V	600 V
Maximum Continuous Operating Voltage (AC) $U_c$	75 V	150 V	300 V	350 V	480 V	550 V	750 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA						
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	75 kA	75 kA	65 kA	65 kA	65 kA	50 kA	50 kA
Voltage Protection Level $U_p$	800 V	1250 V	1500 V	1750 V	2300 V	2,500 V	3400 V
Response Time $t_A$	< 25 ns						
Back-Up Fuse (max)	315 A/250 A gG						
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA / 50 kA						
TOV Withstand 5s $U_T$	114 V	229 V	337 V	403 V	581 V	697 V	871 V
TOV 120 min $U_{T(mode)}$	114 V/ withstand	229 V/safe fail	442 V/safe fail	529 V/safe fail	762 V/safe fail	915 V/Safe fail	1143 V safe fail
Number of Ports	1						
<b>Mechanical</b>							
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)						
Permissible Operating Humidity RH	5%...95%						
Altitude	6562 ft [2000 m]						
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]						
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid)/25 mm <sup>2</sup> (Stranded), 2 AWG (Solid)/4 AWG (Stranded)						
Mounting	35 mm DIN Rail, EN 60715						
Degree of Protection	IP 20						
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0						
Thermal Protection	Yes						
Operating State / Fault Indication	Green Flag / Not Green Flag						
Remote Contacts (RC)	Yes						
RC Switching Capacity	AC: 250 V/ 1 A, 125 V/ 1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A						
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid)/16 AWG (Solid)						
Single Unit Weight pounds	0.274	0.283	0.298	0.309	0.320	0.335	0.355
Single Unit Weight grams	124	128	135	140	145		161

\*Other voltages and configurations available upon request

# DT2 DIN Rail Surge Protection IEC Class II, 2+0 Mode



## Features

- 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

**Certification Details:** IEC 61643-11 Class II  
EN 61643-11 Type 2  
UL 1449, 5th Edition Type 1CA

**Complies with:** IEC 61643-11:2011  
EN 61643-11:2012  
UL 1449, 5th Edition  
CSA C22.2 No. 269-4

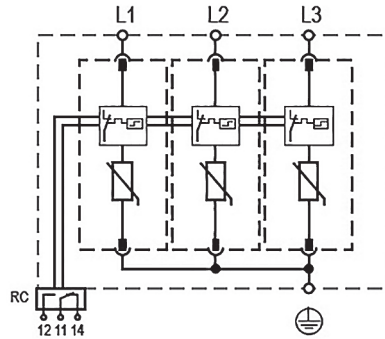
**Protection Modes:** L-PE, N-PE, L-L



Part Number	DT27520R	DT215020R	DT230020R	DT235020R	DT255020R	DT275020R
<b>UL Electrical</b>						
UL Nominal Voltage	60 V	240/120 V 1S 208/120 V 3Y	415/240 V 3Y 240 V 3D	480/277 V 3Y 240 V 3D	480 V 3D	690/400 V 3Y 600 V 3D
Maximum Continuous Operating Voltage (AC) MCOV	75 V/150 V	150 V/300 V	300 V/600 V	350 V/700 V	550 V/1100 V	750 V/1500 V
Voltage Protection Rating VPR	330 V/700 V	600 V/1000 V	900 V/1800 V	1000 V/2000 V	2000 V/4000 V	2500 V/5000 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA					
Short-Circuit Current Rating (AC) SCCR	100 kA	200 kA	150 kA	200 kA	200 kA	200 kA
<b>IEC Electrical</b>						
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	60 V	120 V	240 V	277 V	480 V	600 V
Maximum Continuous Operating Voltage (AC) $U_c$	75 V	150 V	300 V	350 V	550 V	750 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA					
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	75 kA	75 kA	65 kA	65 kA	50 kA	50 kA
Voltage Protection Level $U_p$	800 V	1250 V	1500 V	1750 V	2,500 V	3400 V
Response Time $t_A$	< 25 ns					
Back-Up Fuse (max)	315 A/250 A gG					
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA/50 kA					
TOV Withstand 5s $U_T$	114 V	229 V	337 V	403 V	697 V	871 V
TOV 120 min $U_{T(mode)}$	114 V/ withstand	229 V/ withstand	442 V/safe fail	529 V/safe fail	915 V Safe fail	1143 /safe fail
Number of Ports	1					
<b>Mechanical</b>						
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)					
Permissible Operating Humidity RH	5%...95%					
Altitude	6562 ft [2000 m]					
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]					
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid) / 25 mm <sup>2</sup> (Stranded), 2 AWG (Solid) / 4 AWG (Stranded)					
Mounting	35 mm DIN Rail, EN 60715					
Degree of Protection	IP 20					
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0					
Thermal Protection	Yes					
Operating State/Fault Indication	Green Flag / Not Green Flag					
Remote Contacts (RC)	Yes					
RC Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A					
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid)/16 AWG (Solid)					
Single Unit Weight pounds	0.538	0.556	0.587	0.609	0.586	0.702
Single Unit Weight grams	244	252	266	276		318

\*Other voltages and configurations available upon request

# DT2 DIN Rail Surge Protection IEC Class II, 3+0 Mode



## Features

- 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

**Certification Details:** IEC 61643-11 Class II  
EN 61643-11 Type 2  
UL 1449, 5th Edition Type 1CA

**Complies with:** IEC 61643-11:2011  
EN 61643-11:2012  
UL 1449, 5th Edition  
CSA C22.2 No. 269-4

**Protection Modes:** L-PE/N, L-L

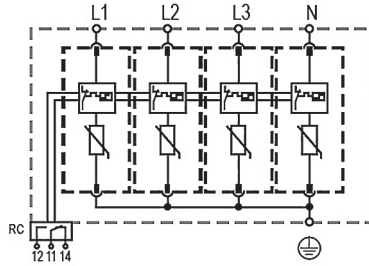


Part Number	DT215030R	DT230030R	DT235030R	DT248030R	DT255030R	DT275030R
<b>UL Electrical</b>						
UL Nominal Voltage	208/120 V 3Y 240/120 V 1S	415/240 3Y 240 V 3D	480/277 V 3Y	690/400 V 3Y	480 V 3D	600 V 3D
Maximum Continuous Operating Voltage (AC) MCOV	150 V/300 V	300 V/600 V	350 V/700 V	480 V/960 V	550 V/1100 V	750 V/1500 V
Voltage Protection Rating VPR	600 V/1000 V	900 V/1800 V	1000 V/2000 V	1500 V/3000 V	2000 V/4000 V	2500 V/5000 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA					
Short-Circuit Current Rating (AC) SCCR	200 kA	150 kA	200 kA	200 kA	200 kA	200 kA
<b>IEC Electrical</b>						
Nominal AC Voltage (50/60 Hz) $U_o$ / $U_n$	120 V	240 V	277 V	400 V	480 V	600 V
Maximum Continuous Operating Voltage (AC) $U_c$	150 V	300 V	350 V	480 V	550 V	750 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA					
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	75 kA	65 kA	65 kA	65 kA	65 kA	50 kA
Voltage Protection Level $U_p$	1250 V	1500 V	1750 V	2300 V	2,500 V	3400 V
Response Time $t_A$	< 25 ns					
Back-Up Fuse (max)	315 A/250 A gG					
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA/50 kA					
TOV Withstand 5s $U_T$	229 V	337 V	403 V	581 V	697 V	871 V
TOV 120 min $U_{T(mode)}$	229 V/ withstand	442 V/safe fail	529 V/safe fail	762 V/safe fail	915 V Safe fail	1143/safe fail
Number of Ports	1					
<b>Mechanical</b>						
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)					
Permissible Operating Humidity RH	5%...95%					
Altitude	6562 ft [2000 m]					
Terminal Screw Torque $M_{max}$	39.9 lbf·in [4.5 Nm]					
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid)/25 mm <sup>2</sup> (Stranded), 2 AWG (Solid)/4 AWG (Stranded)					
Mounting	35 mm DIN Rail, EN 60715					
Degree of Protection	IP 20					
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0					
Thermal Protection	Yes					
Operating State/Fault Indication	Green Flag / Not Green Flag					
Remote Contacts (RC)	Yes					
RC Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A					
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)					
Single Unit Weight pounds	0.783	0.829	0.862	0.896	0.900	1.001
Single Unit Weight grams	355	376	391	406		454

\*Other voltages and configurations available upon request



# DT2 DIN Rail Surge Protection IEC Class II, 4+0 Mode



## Features

- 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

**Certification Details:** IEC 61643-11 Class I+II  
EN 61643-11 Type 1+2  
UL 1449, 5th Edition Type 1CA

**Complies with:** IEC 61643-11:2011  
EN 61643-11:2012  
UL 1449, 5th Edition  
CSA C22.2 No. 269-4

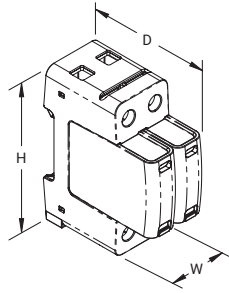
**Protection Modes:** L-PE, N-PE, L-L



Part Number	DT215040R	DT230040R	DT235040R	DT248040R	DT255040R
<b>UL Electrical</b>					
UL Nominal Voltage	208/120 V 3Y	415/240 3Y	480/277 V 3Y	690/400 V 3Y	690/400 V 3Y
Maximum Continuous Operating Voltage (AC) MCOV	150 V/300 V	300 V/600 V	350 V/700 V	480 V/960 V	550 V/1100 V
Voltage Protection Rating VPR	600 V/1000 V	900 V/1800 V	1000 V/2000 V	1500 V/3000 V	2000 V/4000 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA				
Short-Circuit Current Rating (AC) SCCR	200 kA	150 kA	200 kA	200 kA	200 kA
<b>IEC Electrical</b>					
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	120 V	240 V	277 V	400 V	480 V
Maximum Continuous Operating Voltage (AC) $U_c$	150 V	300 V	350 V	480 V	550 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA				
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	75 kA	65 kA	65 kA	65 kA	65 kA
Voltage Protection Level $U_p$	1250 V	1500 V	1750 V	2300 V	2500 V
Response Time $t_A$	< 25 ns				
Back-Up Fuse (max)	315 A/250 A gG				
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA/50 kA				
TOV Withstand 5s $U_T$	229 V	337 V	403 V	581 V	697 V
TOV 120 min $U_{T/mode}$	229 V/withstand	442 V/safe fail	529 V/safe fail	762 V/safe fail	915 V Safe fail
Number of Ports	1				
<b>Mechanical</b>					
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)				
Permissible Operating Humidity RH	5%...95%				
Altitude	6562 ft [2000 m]				
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]				
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid)/25 mm <sup>2</sup> (Stranded), 2 AWG (Solid)/4 AWG (Stranded)				
Mounting	35 mm DIN Rail, EN 60715				
Degree of Protection	IP 20				
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection	Yes				
Operating State / Fault Indication	Green Flag / Not Green Flag				
Remote Contacts (RC)	Yes				
RC Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A				
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)				
Single Unit Weight pounds	1.052	1.114	1.158	1.202	1.200
Single Unit Weight grams	477	505	525	545	

\*Other voltages and configurations available upon request

# DT2 DIN Rail Surge Protection Class II, 1+0 Mode, 100 kA



## 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

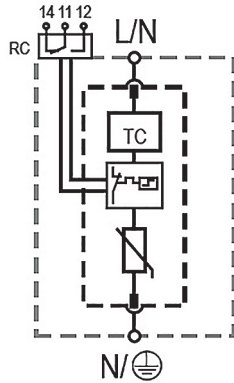
Surges and voltage transients are a major cause of expensive electronic equipment failure and business disruption. Damage may result in the loss of capital outlays, such as computers and communications equipment, as well as consequential loss of revenue and profits due to unscheduled system downtime. nVent ERICO offers multiple series of surge protective devices (SPDs) suitable for a vast range of applications that provide reliable protection from voltage transients on power

distribution systems. The DT2 Series DIN Rail Surge Protective Devices provide reliable and efficient protection against voltage transients within the IEC Class II and UL Type 1CA environments. Tested and independently certified to the IEC and UL standards, the DT2 Series provides a range of safety and performance features for the harshest environments and suitable for protection within a wide range of applications.

Part Number	DT2150R100	DT2350R100	DT2550R100	DT2300R100
Nominal System Voltage ( $U_n$ )	120 V	277 V	480 V	240 V
Max Continuous Operating Voltage ( $U_c$ )	150 V	350 V	550 V	300 V
Nominal Discharge Current ( $I_n$ ), IEC	40 kA 8/20 $\mu$ s			
Max Discharge Current ( $I_{max}$ ), IEC	100 kA 8/20 $\mu$ s			
Voltage Protection Level ( $U_p$ )	1,250 V	1,750 V	2,500 V	1,500 V
Frequency	50–60 Hz			
Response Time	25 ns Max			
Back-Up Fuse @ $I_{scpr}$	250 A @ 50 kA 315 A @ 25 kA			
Protection Modes	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-PE N-PE L-N L-PEN
Short Circuit Current Rating ( $I_{scpr}$ )	25 kA 50 kA			
Temporary Over Voltage 120 min ( $U_{/mode}$ )	229 V Safe Fail	529 V Safe Fail	915 V Safe Fail	442 V Safe Fail
Temporary Over Voltage Withstand 5 s ( $U_{/}$ )	229 V	403 V	697 V	337 V
Technology	Thermal Disconnect			
Torque (TQ)	4.50 N-m			
Connection, Solid	35 mm <sup>2</sup> Max			
Connection, Stranded	25 mm <sup>2</sup> Max			
Humidity	5–95% RH			
Temperature	–40 to 70°C			
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
Enclosure Rating	IP 20			
Enclosure Material	UL® 94 V-0 Thermoplastic			
Remote Contacts	Yes			
Status Indication	Mechanical flag			
Remote Contact Switching Capacity	1.0 A @ 250 VAC 1.0 A @ 125 VAC 0.5 A @ 48 VDC 0.5 A @ 24 VDC 0.5 A @ 12 VDC	1.0 A @ 250 VAC 1.0 A @ 125 VAC 0.5 A @ 48 VDC 0.5 A @ 24 VDC 0.5 A @ 12 VDC	1.0 A @ 250 VAC 1.0 A @ 125 V 0.5 A @ 48 VDC 0.5 A @ 24 V 0.5 A @ 12 V	1.0 A @ 250 VAC 1.0 A @ 125 VAC 0.5 A @ 48 VDC 0.5 A @ 24 VDC 0.5 A @ 12 VDC
Dimensions H x D x W	89.92 mm x 69.09 mm x 36.070 mm			
Unit Weight	0.128 kg	0.140 kg	0.152 kg	0.135 kg Min
Complies With	EN 61643-11 Type 2 IEC® 61643-11 Class II			
Replacement Module	DT2150M	DT2350M	DT2550M	DT2300M

\*Other voltages and configurations available upon request

# EDT2 Enhanced DIN Rail Surge Protection IEC Class II, 1+0 Mode



## Features

- 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

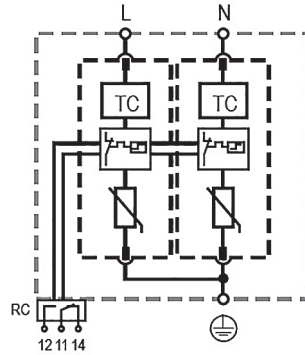
<b>Certification Details:</b>	IEC 61643-11 Class I+II EN 61643-11 Type 1+2 UL 1449, 5th Edition Type 1CA
<b>Complies with:</b>	IEC 61643-11:2011 EN 61643-11:2012 UL 1449, 5th Edition CSA C22.2 No. 269-4
<b>Protection Modes:</b>	L-N, N-PE, L-L



Part Number	EDT27510R	EDT215010R	EDT230010R	EDT235010R	EDT248010R	EDT255010R	EDT275010R
<b>UL Electrical</b>							
UL Nominal Voltage	60 V	120 V	240 V	277 V	400 V	480 V	600 V
Maximum Continuous Operating Voltage (AC) MCOV	75 V	150 V	300 V	350 V	480 V	550 V	750 V
Voltage Protection Rating VPR	600 V	700 V	1200 V	1200 V	1500 V	1800 V	2500 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA						
Short-Circuit Current Rating (AC) SCCR	85 kA	200 kA	150 kA	200 kA	200 kA	200 kA	200 kA
<b>IEC Electrical</b>							
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	60 V	120 V	240 V	277 V	400 V	480 V	600 V
Maximum Continuous Operating Voltage (AC) $U_c$	75 V	150 V	300 V	350 V	480 V	550 V	750 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA						
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	75 kA	75 kA	65 kA	65 kA	65 kA	65 kA	50 kA
Voltage Protection Level $U_p$	800 V	1250 V	1650 V	1750 V	2300 V	2500 V	3500 V
Response Time $t_a$	< 25 ns						
Back-Up Fuse (max)	315 A/250 A gG						
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA/50 kA						
TOV Withstand 120 min $U_T$	150 V	300 V	442 V	529 V	762 V	918 V	1200 V
Number of Ports	1						
<b>Mechanical</b>							
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)						
Permissible Operating Humidity RH	5%...95%						
Altitude	6562 ft [2000 m]						
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]						
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid) / 25 mm <sup>2</sup> (Stranded), 2 AWG (Solid) / 4 AWG (Stranded)						
Mounting	35 mm DIN Rail, EN 60715						
Degree of Protection	IP 20						
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0						
Thermal Protection	Yes						
Operating State / Fault Indication	Green Flag / Not Green Flag						
Remote Contacts (RC)	Yes						
RC Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A						
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)						
Single Unit Weight pounds	0.287	0.296	0.307	0.325	0.331	0.342	0.364
Single Unit Weight grams	130	134	139	147	150	155	165

\*Other voltages and configurations available upon request

# EDT2 Enhanced DIN Rail Surge Protection IEC Class II, 2+0 Mode



## Features

- Includes nVent ERICO TD Technology to ensure reliability throughout adverse voltage conditions
- Enhanced temporary over voltage (TOV) withstand capability
- 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

**Certification Details:** UL® 1449 Edition 5 Type 1CA

**Complies with:** EN 61643-11 Type 2  
IEC® 61643-11 Class II

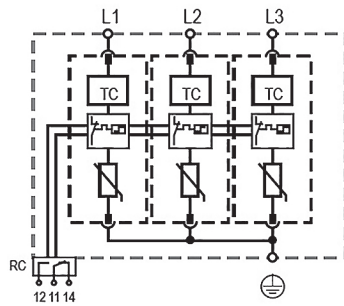
**Protection Modes:** L-N, N-PE, L-L



Part Number	EDT215020R	EDT230020R	EDT235020R	EDT248020R	EDT255020R	EDT275020R
<b>UL Electrical</b>						
UL Nominal Voltage	208/120 V 3Y 240/120 V 1S	415/240 V 3Y 240 V 3D	480/277 V 3Y 240 V 3D	690/400 V 3Y	690/400 V 3Y 480 V 3D	600 V 3D
Maximum Continuous Operating Voltage (AC) MCOV	150 V/300 V	300 V/600 V	350 V/700 V	480 V/960 V	550 V/1100 V	750 V/1500 V
Voltage Protection Rating VPR	600 V/1200 V	1200 V/1800 V	1200 V/2000 V	1500 V/3000 V	1800 V/3000 V	2500 V/5000 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA					
Short-Circuit Current Rating (AC) SCCR	200 kA	150 kA	200 kA	200 kA	200 kA	200 kA
<b>IEC Electrical</b>						
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	120 V	240 V	277 V	400 V	400 V	600 V
Maximum Continuous Operating Voltage (AC) $U_c$	150 V	300 V	350 V	480 V	550 V	750 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA					
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	75 kA	65 kA	65 kA	65 kA	65 kA	50 kA
Voltage Protection Level $U_p$	1250 V	1650 V	1750 V	2300 V	2500 V	3500 V
Response Time $t_A$	< 25 ns					
Back-Up Fuse (max)	315 A/250 A gG					
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA/50 kA					
TOV Withstand 120 min $U_T$	300 V	442 V	529 V	762 V	918 V	1200 V
Number of Ports	1					
<b>Mechanical</b>						
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)					
Permissible Operating Humidity RH	5%...95%					
Altitude	6562 ft [2000 m]					
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]					
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid) / 25 mm <sup>2</sup> (Stranded), 2 AWG (Solid)/4 AWG (Stranded)					
Mounting	35 mm DIN Rail, EN 60715					
Degree of Protection	IP 20					
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0					
Thermal Protection	Yes					
Operating State / Fault Indication	Green Flag / Not Green Flag					
Remote Contacts (RC)	Yes					
RC Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A					
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)					
Single Unit Weight pounds	0.583	0.605	0.640	0.653	0.675	0.719
Single Unit Weight grams	264	274	290	296	306	326

\*Other voltages and configurations available upon request

# EDT2 Enhanced DIN Rail Surge Protection IEC Class II, 3+0 Mode



## Features

- 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

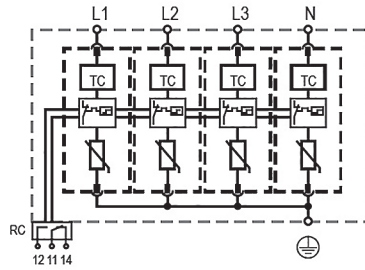
<b>Certification Details:</b>	IEC 61643-11 Class II EN 61643-11 Type 2 UL 1449, 5th Edition Type 1CA
<b>Complies with:</b>	IEC 61643-11:2011 EN 61643-11:2012 UL 1449, 5th Edition CSA C22.2 No. 269-4
<b>Protection Modes:</b>	L-PE/N, L-L



Part Number	EDT215030R	EDT230030R	EDT235030R	EDT248030R	EDT255030R	EDT275030R
<b>UL Electrical</b>						
UL Nominal Voltage	208/120 V 3Y 240/120 V 1S	415/240 3Y 240 V 3D	480/277 V 3Y	690/400 V 3Y	480 V 3D	600 V 3D
Maximum Continuous Operating Voltage (AC) MCOV	150 V/300 V	300 V/600 V	350 V/700 V	480 V/960 V	550 V/1100 V	750 V/1500 V
Voltage Protection Rating VPR	700 V/1500 V	1200 V/2000 V	1200 V/2000 V	1500 V/2500 V	1800 V/3000 V	2500 V/5000 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA					
Short-Circuit Current Rating (AC) SCCR	200 kA	150 kA	200 kA	200 kA	200 kA	200 kA
<b>IEC Electrical</b>						
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	120 V	240 V	277 V	400 V	400 V	600 V
Maximum Continuous Operating Voltage (AC) $U_c$	150 V	300 V	350 V	480 V	550 V	750 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA					
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	75 kA	65 kA	65 kA	65 kA	65 kA	50 kA
Voltage Protection Level $U_p$	1250 V	1650 V	1750 V	2300 V	2500 V	3500 V
Response Time $t_a$	< 25 ns					
Back-Up Fuse (max)	315 A/250 A gG					
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA/50 kA					
TOV Withstand 120 min $U_T$	300 V	442 V	529 V	762 V	918 V	1200 V
Number of Ports	1					
<b>Mechanical</b>						
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)					
Permissible Operating Humidity RH	5%...95%					
Altitude	6562 ft [2000 m]					
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]					
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid)/25 mm <sup>2</sup> (Stranded), 2 AWG (Solid)/4 AWG (Stranded)					
Mounting	35 mm DIN Rail, EN 60715					
Degree of Protection	IP 20					
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0					
Thermal Protection	Yes					
Operating State / Fault Indication	Green Flag / Not Green Flag					
Remote Contacts (RC)	Yes					
RC Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A					
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)					
Single Unit Weight pounds	0.823	0.856	0.909	0.929	0.962	1.028
Single Unit Weight grams	373	388	412	421	436	466

\*Other voltages and configurations available upon request

# EDT2 Enhanced DIN Rail Surge Protection IEC Class II, 4+0 Mode



## Features

- 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

**Certification Details:** IEC 61643-11 Class II  
EN 61643-11 Type 2  
UL 1449, 5th Edition Type 1CA

**Complies with:** IEC 61643-11:2011  
EN 61643-11:2012  
UL 1449, 5th Edition  
CSA C22.2 No. 269-4

**Protection Modes:** L-PE, N-PE, L-L



Part Number	EDT215040R	EDT230040R	EDT235040R	EDT248040R	EDT255040R
<b>UL Electrical</b>					
UL Nominal Voltage	208/120 V 3Y	415/240 3Y	480/277 V 3Y	690/400 V 3Y	690/400 V 3Y
Maximum Continuous Operating Voltage (AC) MCOV	150 V/300 V	300 V/600 V	350 V/700 V	480 V/960 V	550 V/1100 V
Voltage Protection Rating VPR	600 V/1000 V	1200 V/2000 V	1200 V/2000 V	1500 V/2500 V	1800 V/3000 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA				
Short-Circuit Current Rating (AC) SCCR	200 kA	150 kA	200 kA	200 kA	200 kA
<b>IEC Electrical</b>					
Nominal AC Voltage (50/60 Hz) $U_o / U_n$	120 V	240 V	277 V	400 V	400 V
Maximum Continuous Operating Voltage (AC) $U_c$	150 V	300 V	350 V	480 V	550 V
Nominal Discharge Current (8/20 $\mu$ s) $I_n$	20 kA				
Maximum Discharge Current (8/20 $\mu$ s) $I_{max}$	75 kA	65 kA	65 kA	65 kA	65 kA
Voltage Protection Level $U_p$	1250 V	1650 V	1750 V	2300 V	2500 V
Response Time $t_a$	< 25 ns				
Back-Up Fuse (max)	315 A/250 A gG				
Short-Circuit Current Rating (AC) $I_{SCCR}$	25 kA/50 kA				
TOV Withstand 120 min $U_T$	300 V	442 V	529 V	762 V	918 V
Number of Ports	1				
<b>Mechanical</b>					
Operating Temperature Range $T_a$	-31°F to 185°F (-35°C to 85°C)				
Permissible Operating Humidity RH	5%...95%				
Altitude	6562 ft [2000 m]				
Terminal Screw Torque $M_{max}$	39.9 lbf-in [4.5 Nm]				
Conductor Cross Section (max)	35 mm <sup>2</sup> (Solid) / 25 mm <sup>2</sup> (Stranded), 2 AWG (Solid) / 4 AWG (Stranded)				
Mounting	35 mm DIN Rail, EN 60715				
Degree of Protection	IP 20				
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection	Yes				
Operating State / Fault Indication	Green Flag / Not Green Flag				
Remote Contacts (RC)	Yes				
RC Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A				
RC Conductor Cross Section (max)	1.5 mm <sup>2</sup> (Solid) / 16 AWG (Solid)				
Single Unit Weight pounds	1.105	1.149	1.220	1.246	1.290
Single Unit Weight grams	501	521	553	565	585

\*Other voltages and configurations available upon request





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