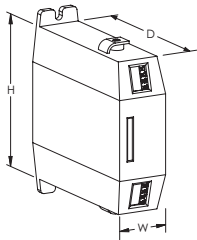


# Transient Discriminating MOVTEC



- Transient Discriminating (TD) Technology provides increased service life
- Built-in features include TD Technology, thermal protection and short circuit current fusing
- LED status indication and voltage-free contacts provide remote status monitoring
- 100 kA 8/20  $\mu$ s maximum surge rating provides protection suitable for smaller main-distribution panels and an extended operational life



Part Number	TDSMT120	TDSMT277	TDSMT480	TDSMTU277
Article Number	700725	700230	-	700240
Nominal System Voltage (Un)	110 - 120 V	230 - 277 V	480 V	230 - 277 V
Nominal Discharge Current (In), Per Mode	80 kA 8/20 $\mu$ s			-
Max Continuous Operating Voltage (Uc)	170 VAC	400 VAC	-	400 VAC
Stand-off Voltage	240 V	480 V	-	480 V
Frequency	50 - 60 Hz			
Connection, Stranded	16 mm <sup>2</sup> Max			
Impulse Current (Iimp)	20 kA 10/350 $\mu$ s			
Max Discharge Current (Imax)	-			
Max Discharge Current (Imax), Per Mode	100 kA 8/20 $\mu$ s			40 kA 8/20 $\mu$ s L-N
Voltage Protection Level (Up)	-			
Voltage Protection Rating (VPR)	400 V @ 3 kA 760 V @ 20 kA	700 V @ 3 kA 980 V @ 20 kA	1,050 V @ 3 kA 1,300 V @ 20 kA	-
Aggregate Surge Rating	200 kA 8/20 $\mu$ s			-
Back-Up Overcurrent Protection	100 A			
Max Operating Current	25 mA			
Protection Modes	Single			L-PE L-N N-PE
Status Indication	5 segment LED bar graph per phase			
Technology	TD technology with thermal disconnect			

Part Number	TDSMT120	TDSMT277	TDSMT480	TDSMTU277
Temperature	-35 to 55 °C			
Enclosure Material	UL® 94V-0 Thermoplastic			
Enclosure Rating	IP 20 NEMA®-1			
Depth (D)	140 mm			
Height (H)	150 mm			
Width (W)	45 mm			
Unit Weight	0.6 kg			
Certification Details	UL® 1449 Edition 3 Recognized Component Type 2		-	
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs			
Certifications	C-Tick UR		C-Tick	

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**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.erico.com](http://www.erico.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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