

Transient Discriminating MOVTEC



CERTIFICATIONS



FEATURES

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

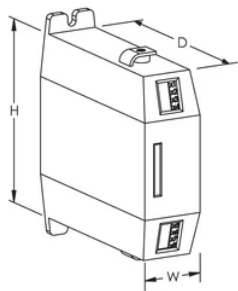
100 kA 8/20 μ s maximum surge rating provides protection suitable for smaller main-distribution panels and an extended operational life

SPECIFICATIONS

Catalog Number	TDSMT480	TDSMT120	TDSMT277
Article Number		700725	700230
Nominal System Voltage (Un)	480 V	110 - 120 V	230 - 277 V
Nominal Discharge Current (In), Per Mode	80kA 8/20 μ s	80kA 8/20 μ s	80kA 8/20 μ s
Max Continuous Operating Voltage (Uc)		170 VAC	400 VAC
Stand-off Voltage		240 V	480 V

Catalog Number	TDSMT480	TDSMT120	TDSMT277
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Connection, Stranded	16 mm ² Max	16 mm ² Max	16 mm ² Max
Impulse Current (Iimp)	20kA 10/350 µs	20kA 10/350 µs	20kA 10/350 µs
Max Discharge Current (Imax), Per Mode	100kA 8/20 µs	100kA 8/20 µs	100kA 8/20 µs
Voltage Protection Rating (VPR)	1050 V @ 3 kA 1300 V @ 20 kA	400 V @ 3 kA 760 V @ 20 kA	700 V @ 3 kA 980 V @ 20 kA
Aggregate Surge Rating	200	200	200
Back-Up Overcurrent Protection	100A	100A	100A
Max Operating Current	25 mA	25 mA	25 mA
Protection Modes	Single	Single	Single
Status Indication	5 segment LED bar graph per phase	5 segment LED bar graph per phase	5 segment LED bar graph per phase
Technology	TD technology with thermal disconnect	TD technology with thermal disconnect	TD technology with thermal disconnect
Temperature	-35 to 55 °C	-35 to 55 °C	-35 to 55 °C
Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic
Enclosure Rating	IP 20 NEMA®-1	IP 20 NEMA®-1	IP 20 NEMA®-1
Depth (D)	140mm	140mm	140mm
Height (H)	150 mm	150 mm	150 mm
Width (W)	45 mm	45 mm	45 mm
Unit Weight	0.6 kg	0.6 kg	0.6 kg
Certification Details		UL® 1449 Edition 3 Recognized Component Type 2	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	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	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		UR	UR

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.

North America

+1.800.753.9221
Option 1 – Customer Care
Option 2 – Technical
Support

Europe

Netherlands:
+31 800-0200135
France:
+33 800 901 793

Europe

Germany:
800 1890272
Other Countries:
+31 13 5835404

APAC

Shanghai:
+ 86 21 2412 1618/19
Sydney:
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