



## TDX100 Transient Discriminating Panel Protection

### TDX100M120/240 / TDX100M120240

CRITEC® TDX100M Transient Discriminating Panel Protection; 1 Phase, Modular, 120/240V, 3W+G, 100kA / Phase, Counter



### Ordering Information

Region	Part / Article #
North America	TDX100M120/240
Latin America	TDX100M120/240
Europe/Middle East/Africa	TDX100M120240
Asia/Australia	TDX100M120/240

### Application Information

- The TDX100 Series of Transient Voltage Surge Suppressors is designed for critical protection applications. The 100kA 8/20µs of surge protection meets the IEEE® C62.41.2 Scenario II single shot surge rating requirements for exposed service entrance locations – Exposure 3.
- The NEMA-4 weather-tight housing allows the TDX to be installed on indoor or outdoor service panels. The preconfigured connecting leads simplify installation. The unique narrow construction allows the SPD to fit between adjacent panel boards and connect via a 90-degree elbow. A flush mounting kit is also available for installing the SPD in drywall applications.
- Listed as a Type 1 SPD to UL 1449 Edition 3, the TDX100 Series can be installed within a Type 1 or 2 location in accordance with the NEC® 2008

### Features

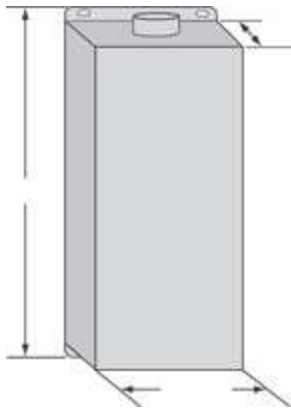
- Transient Discriminating (TD) Technology provides increased service life
- Modular design allows individual modes to be field replaceable, built-in disconnect and fusing eliminates need for external fusing
- Built-in features include TD Technology, thermal protection and short circuit current cartridge fusing
- Compact NEMA-4 enclosure design can be flush mounted or installed in a small space
- Status indication flag per mode, voltage presence LEDs, audible alarm and voltage-free contacts providing remote status monitoring
- 100kA 8/20µs maximum surge rating provides protection suitable for smaller main-distribution panels and an extended operational life
- Available in various operating voltages to suit most common power distribution systems
- CE, UL® 1449 Edition 3 Listed

### Product Specifications

<b>Approvals</b>	C-Tick CE
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	IEC® 61643-1 UL® 1449 Ed. 3 Listed Type 1/2
<b>Available Options</b>	Flush Mount Kit (Order TDXM100FP) Replacement Fuse Cartridge (Order TDXFUSE) Side Mount Kit (Order TDXSM) Surge Counter and Filtering insert "S" in Order Code, example TDX100S277/480
<b>Connection</b>	Neutral/Ground: 900 mm of 5.26 mm <sup>2</sup> (36" of # 10 AWG) flying leads Line: 762 mm of 5.26 mm <sup>2</sup> (30" of # 10 AWG) flying leads
<b>Depth</b>	78.00 mm
<b>Dimensions (alternative)</b>	240 mm x 78 mm x 84 mm (9" x 3.31" x 3")
<b>Distribution System</b>	1Ph 3W+G
<b>Enclosure</b>	Aluminum, IP 65 (NEMA-4)
<b>Filtering</b>	-40 dB @ 100 kHz on "S" models
<b>Frequency</b>	50/60 Hz
<b>Height</b>	240.00 mm
<b>Humidity</b>	0 % RH [Min] 90 % RH [Max]
<b>Impulse Current, Iimp</b>	12 kA 10/350 µs per mode
<b>Max Continuous Operating Voltage Uc - AC</b>	170/340 V
<b>Max Discharge Current</b>	100 kA 8/20 µs per phase
<b>Mounting</b>	3/4" straight nipple Optional flush mounting plate for drywall
<b>Nominal Discharge Current</b>	50 kA 8/20 µs
<b>Nominal Voltage - AC</b>	120 V [Min] 240 V [Max]
<b>Product Series</b>	CRITEC® TDX100 Transient Discriminating Panel Protection
<b>Protection Modes</b>	All modes protected via L-N, L-G, & N-G
<b>Replacement Module</b>	TDS150M150
<b>Short Circuit Current Rating, Isc</b>	200 kAIC
<b>Stand-off Voltage</b>	240/480 V
<b>Status</b>	Audible Alarm LED status indication per phase, mechanical flag per mode, all modes monitored Remote contacts, change-over, 400 V <sup>~</sup> / 3 A, max 1.5 mm <sup>2</sup> (#14 AWG) terminals
<b>Surge Rated to Meet</b>	IEC 61643-1 Class I, Class II UL® 1449 Ed. 3 In 20 kA mode 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

<b>Technology</b>	Over-current Replaceable Cartridge Fusing TD Technology with thermal disconnect
<b>Temperature</b>	-40°C [Min] 80°C [Max]
<b>Voltage Protection Level (8/20µs)</b>	L-N 600 V @ 3 kA 1.2 kV @ 20 kA
<b>Weight</b>	3.10 lbs
<b>Width</b>	84.00 mm



### Application Photos



#### WARNING

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