

Features

- CRITEC® Transient Discriminating (TD) Technology provides increased service life
- Built-in safety 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
- LED status indication flag and voltage-free contacts provide remote status monitoring
- 50kA 8/20 maximum surge rating provides protection suitable for sub-distribution panels and a long operational life
- Available in various operating voltages to suit most common power distribution systems
- CE, UL® pending



The TDX50C Compact Series of Transient Voltage Surge Suppressors for equipment, panel and motor protection applications is specifically designed to provide long life, even under the most adverse over-voltage conditions.

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. A flush mounting kit is also available for installing the SPD in drywall applications.



Compact size fits narrow installations.



Model	TDX50C 120	TDX50C 120/240	TDX50C 120/208	TDX50C 120/240D	TDX50C 240	TDX50C 277/480	TDX50C 347/600
Nominal Voltage U _n (pole)	120V~	120/240V~	120/240V~	120/240V~	240V~	277/480V~	347/600V~
Distribution System ⁽¹⁾	1Ph 2W+G	1Ph 3W+G	3Ph 4W+G	3Ph Δ 4W+G	1Ph 2W+G	3Ph 4W+G (& 3W+G ⁽²⁾)	3Ph 4W+G
MCOV Uc	170V~	170/340V~	170/295V~	170/340V~	275V~	310/536V~	480V/830V ~
Stand off Voltage	240V~	240/480V~	240/415V~	240/415V~	415V~	480/813V~	600V/1040V ~
Frequency	50 / 60Hz						
Short Circuit Current Rating	200kAIC (Isc)						
Technology Used	TD Technology with thermal disconnect Over-current Replaceable Cartridge Fusing						
Protection							
Maximum Discharge Current (Imax/per line)	50kA 8/20μs				20kA 8/20μs		
Nominal Discharge Current (In/per line)	20kA 8/20μs				20kA 8/20μs		
Protection Modes	All modes protected via L-N, L-G & N-G						
Protection Level (L-N) Up @ 3kA	< 450V				< 800V		< 450V
Protection Level (L-N) Up @ In	< 1.1kV				< 1.2kV		< 900V
Alarms and Indicators							
Status Indication	LED status indication per phase, all modes monitored Remote contacts, change-over, 125V~ / 3A, max 1.5 mm ² (#14AWG) terminals						
Physical Data							
Dimensions	155 mm x 84 mm x 72 mm 6" x 3.25" x 2.875"						
Weight	0.7 kg (1.5 lbs) approx.						
Enclosure	Aluminum, IP 65 (NEMA®-4)						
Connection	Line: 600 mm of 5.26 mm ² (24" of # 10 AWG) flying leads Neutral/ Ground: 900 mm of 5.26 mm ² (36" of # 10 AWG) flying leads						
Mounting	3/4" straight nipple Optional flush mounting plate for drywall						
Temperature	-40°C to +80°C (-40°F to +176°F)						
Humidity	0 to 90%						
Test Standards							
Approvals	CE, IEC SM 61643-1, UL® 1449 Pending, C-Tick						
Surge Rated to Meet	IEC 61643-1 Class II, ANSI/IEEE® C62.41-1991 Cat A, Cat B, Cat C ANSI/IEEE C62.41.2 Scenario II, Exposure 2, 50kA 8/20μs						

(1) Grounded systems only. 240D and 480D should not be used on high-leg or ungrounded systems.

(2) TDX50277/480 can be used on "No Neutral" 480V Wye 3W+G systems.

Due to a policy of continual product development, specifications are subject to change without notice.

WARNING

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Features

- CRITEC[®] Transient Discriminating (TD) Technology provides increased service life
- Built-in safety 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
- LED status indication flag and voltage-free contacts provide remote status monitoring
- 100kA 8/20 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[®] pending



The TDX100C Compact Series of Transient Voltage Surge Suppressors is designed for critical protection applications. The 100kA 8/20 μ s of surge protection exceeds 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.



Compact size fits narrow installations.



Model	TDX100C 120	TDX100C 120/240	TDX100C 120/208	TDX100C 120/240D	TDX100C 240	TDX100C 277/480	TDX100C 347/600
Nominal Voltage U _n (pole)	120V~	120/240V~	120/240V~	120/240V~	240V~	277/480V~	347/600V~
Distribution System ⁽¹⁾	1Ph 2W+G	1Ph 3W+G	3Ph 4W+G	3Ph Δ 4W+G	1Ph 2W+G	3Ph 4W+G (& 3W+G ⁽²⁾)	3Ph 4W+G
MCOV Uc	170V~	170/340V~	170/295V~	170/340V~	275V~	310/536V~	480V/830V ~
Stand off Voltage	240V~	240/480V~	240/415V~	240/415V~	415V~	480/813V~	600V/1040V ~
Frequency	50 / 60Hz						
Short Circuit Current Rating	200kAIC (Isc)						
Technology Used	TD Technology with thermal disconnect Over-current Replaceable Cartridge Fusing						
Protection							
Maximum Discharge Current (Imax/per line)	100kA 8/20μs				40kA 8/20μs		
Nominal Discharge Current (In/per line)	40kA 8/20μs				40kA 8/20μs		
Protection Modes	All modes protected via L-N, L-G & N-G						
Protection Level (L-N) Up @ 3kA	< 450V				< 800V		< 450V
Protection Level (L-N) Up @ In	< 1.1kV				< 1.2kV		< 900V
Alarms and Indicators							
Status Indication	LED status indication per phase, all modes monitored Remote contacts, change-over, 125V~ / 3A, max 1.5 mm ² (#14AWG) terminals						
Physical Data							
Dimensions	155 mm x 84 mm x 72 mm 6" x 3.25" x 2.875"						
Weight	0.8 kg (1.75 lbs) approx.						
Enclosure	Aluminum, IP 65 (NEMA [®] -4)						
Connection	Line: 600 mm of 5.26 mm ² (24" of # 10 AWG) flying leads Neutral/ Ground: 900 mm of 5.26 mm ² (36" of # 10 AWG) flying leads						
Mounting	3/4" straight nipple Optional flush mounting plate for drywall						
Temperature	-40°C to +80°C (-40°F to +176°F)						
Humidity	0 to 90%						
Test Standards							
Approvals	CE, IEC SM 61643-1, UL [®] 1449 Pending, C-Tick						
Surge Rated to Meet	IEC 61643-1 Class II, ANSI/IEEE [®] C62.41-1991 Cat A, Cat B, Cat C ANSI/IEEE C62.41.2 Scenario II, Exposure 2, 50kA 8/20μs						

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(2) TDX50C277/480 can be used on "No Neutral" 480V Wye 3W+G systems.

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