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TDS Surge Diverter - TDS1100  
Series: TDS11002SR277

**TDS Surge Diverter - TDS1100 Series: TDS11002SR277**

CRITEC® TDS Surge Diverter - TDS1100 Series

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Region	Part / Article #
North America	TDS11002SR277
Latin America	TDS11002SR277
Europe/Middle East/Africa	702412
Asia/Australia	TDS11002SR277

**Application Information**

- 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 down-time.
- The TDS1100 series of surge suppressors is designed to provide economical and reliable protection from voltage transients on power distribution systems. They are conveniently packaged for easy installation on 35 mm DIN rail within main distribution panelboards.
- Transient Discriminating (TD) technology helps ensure reliable and continued operation during sustained and abnormal over-voltage events. Internal thermal disconnect devices help ensure controlled behavior at end-of-life. A visual indicator flag provides user-feedback in the event of such operation. As standard, the TDS1100 provides a set of voltage-free contacts for remote signaling that maintenance is due.
- The convenient plug-in module and separate base design facilitates replacement of a failed surge module without needing to undo installation wiring.

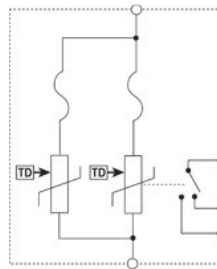
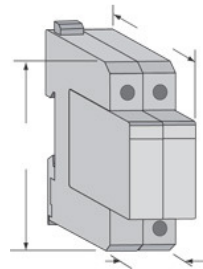
**Features**

- TD Technology with thermal disconnect protection
- Compact design fits into DIN distribution panel boards and motor control centers
- 35 mm DIN rail mount – DIN 43 880 profile matches common circuit breakers
- Indication flags and voltage-free contacts provide remote status monitoring
- Separate plug and base design facilitates replacement of a failed surge module
- 100kA 8/20µs 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® 1449 Edition 3 Listed

**Product Specifications**

<b>Approvals</b>	CE IEC® 61643-1 UL® 1449 Ed. 3 Recognized Component Type 2
<b>Back-up Overcurrent Protection</b>	125 A gL, if supply > 100 A
<b>Connection</b>	≤25 mm² (#4AWG) stranded ≤35 mm² (#2AWG) solid
<b>Depth</b>	68.00 mm
<b>Enclosure</b>	DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1)
<b>Frequency</b>	0-100 Hz
<b>Height</b>	90.00 mm
<b>Humidity</b>	0 % RH [Min] 90 % RH [Max]
<b>Impulse Current, Iimp</b>	12.5 kA 10/350 µs
<b>Max Continuous Operating Voltage Uc - AC</b>	320 V
<b>Max Discharge Current</b>	100 kA 8/20 µs
<b>Module Width</b>	2 M
<b>Mounting</b>	35 mm top hat DIN rail
<b>Nominal Discharge Current</b>	40 kA 8/20 µs
<b>Nominal Voltage - AC</b>	240 V [Min] 277 V [Max]
<b>Product Series</b>	CRITEC® TDS Surge Diverter - TDS1100 Series
<b>Protection Modes</b>	Single mode (L-G, L-N or N-G)
<b>Replacement Module</b>	TDS150M277
<b>Short Circuit Current Rating, Isc</b>	200 kAIC
<b>Stand-off Voltage</b>	480 V
<b>Status</b>	N/O, N/C Change-over contact, 250 V~/0.5 A, max 1.5 mm² (#14 AWG)

	terminals Mechanical flag / remote contacts (R model only)
Surge Rated to Meet	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 IEC 61643-1 Class I and Class II UL® 1449 Ed. 3 In 20 kA mode
Technology	TD Technology with thermal disconnect
Temperature	-40 °C [Min] 80 °C [Max]
Voltage Protection Level (8/20µs)	800 V @ 3 kA 1.6 kV @ 20 kA
Weight	0.24 kg
Width	35.00 mm



### Downloads

#### Catalogs

 [CRITEC® Surge Protection Products Catalog](#)

### Application Photos

Click each thumbnail below for a larger version.



### Warning, Warranty and Limitation of Liability

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

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Dual Pair: UTB30DP](#)**Universal Transient Barrier Dual Pair: UTB30DP**

CRITEC® Universal Transient Barrier

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Region	Part / Article #
North America	UTB30DP
Latin America	UTB30DP
Europe/Middle East/Africa	702888
Asia/Australia	UTB30DP

**Application Information**

- The UTB series is designed to provide transient protection for equipment from surges induced onto balanced pair signal lines or low-voltage AC or DC power supplies. The compact series is well suited to applications where panel space is limited, yet provides similar protection performance when compared to the UTB Modular series. They are well suited to the protection of industrial equipment such as PLCs and SCADA systems.
- The UTB-DP (dual pair) employs a hybrid, multi-stage clamping circuit to help ensure the best possible protection to sensitive electronic equipment while maintaining a minimum of line interference and insertion losses.
- The UTB-DPS (dual pair - single power supply, single data pair) is specifically designed for applications where compact protection is required for one signal pair and one power supply, common in powered transducer applications. The UTB-DPS combines both these protection circuits in one compact package.

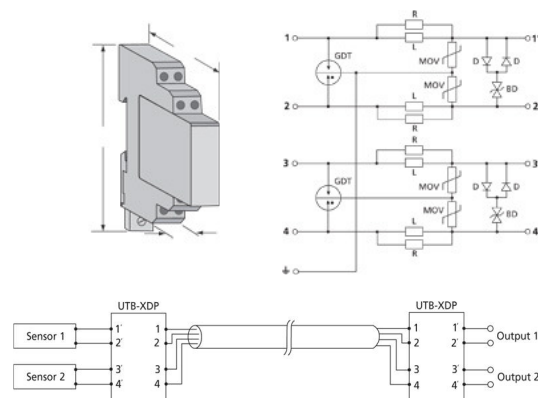
**Features**

- Compact design universal transient barrier – protection of low-voltage circuits and transducers
- Separate plug and base design – hot swappable feature allows ease of module replacement
- Compact, slimline two pair housing 12 mm wide
- Multi stage protection – fine over-voltage protection helps ensure lowest residual surge voltages reach sensitive equipment
- Common-mode and differential-mode protection – protects against both possible surge conditions
- Ease of grounding – through DIN mounting rail or via terminal
- Surge rating to 20 kA 8/20  $\mu$ s – ideal for exposed wiring
- "UTB-DPS" model designed for compact protection of signal and power supply in one compact housing
- Allows for protection of 50 analog signals or 100 digital signals per linear foot of DIN rail space

**Product Specifications**

<b>Approvals</b>	UL® 497B CE
<b>Connection</b>	1 mm <sup>2</sup> to 2.5 mm <sup>2</sup> (#18AWG to 14AWG) Grounding via terminal or DIN rail connection
<b>Depth</b>	85.00 mm
<b>Enclosure</b>	DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1)
<b>Frequency</b>	2 MHz
<b>Height</b>	90.00 mm
<b>Humidity</b>	0 % RH [Min] 90 % RH [Max]
<b>Loop Resistance</b>	0.6 $\Omega$
<b>Max Continuous Operating Voltage Uc - AC</b>	23 V
<b>Max Continuous Operating Voltage Uc - DC</b>	33 V
<b>Max Discharge Current</b>	20 kA 8/20 $\mu$ s (L+L)-PE
<b>Max Line Current, IL</b>	800.0 mA [Max]
<b>Mounting</b>	35 mm top hat DIN rail
<b>Nominal Voltage - AC</b>	10 V [Min] 21 V [Max]
<b>Nominal Voltage - DC</b>	15 V [Min] 30 V [Max]
<b>Product Series</b>	CRITEC® Universal Transient Barrier
<b>Protection Modes</b>	Differential & Common Mode
<b>Replacement Module</b>	UTB30DPM
<b>Replacement Module (Europe)</b>	702896
<b>Surge Rated to Meet</b>	ANSI/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C
<b>Technology</b>	GDT

	MOV Silicon
Temperature	-20 °C [Min] 65 °C [Max]
Voltage Protection Level (8/20µs)	44 V @ 3 kA L-L
Weight	0.09 kg
Width	12.00 mm



### Application Photos

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