

## TDS Surge Diverter – TDS1100 Series



### Features

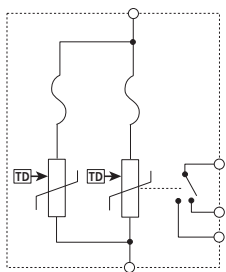
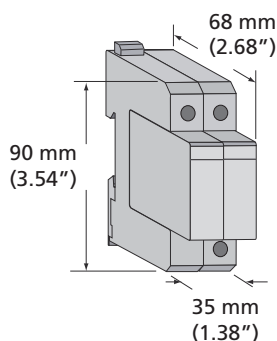
- TD Technology with thermal disconnect protection
- Compact design fits into DIN distribution panel boards and motor control centers
- 35 mm DIN rail mount – DIN 43 880 profile matches common circuit breakers
- Indication flags and voltage-free contacts provide remote status monitoring
- Separate plug and base design facilitates replacement of a failed surge module
- 100kA 8/20 $\mu$ s 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 Recognized Component Type 2

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.



Model	TDS11002SR150	TDS11002SR240	TDS11002SR277	TDS11002SR560
Item Number for Europe	702409	702411	702412	702413
Nominal Voltage, $U_n$	120-150 VAC	220-240 VAC	240-277 VAC	480-560 VAC
Max Cont. Operating Voltage, $U_c$	170 VAC	275 VAC	320 VAC	610 VAC
Stand-off Voltage	240 VAC	440 VAC	480 VAC	700 VAC
Frequency	0-100 Hz			
Short Circuit Current Rating, $I_{sc}$	200 kAIC			
Back-up Overcurrent Protection	125 AgL, if supply > 100 A			
Technology	TD Technology with thermal disconnect			
Max Discharge Current, $I_{max}$	100 kA 8/20 $\mu$ s			
Impulse Current, $I_{imp}$	12.5 kA 10/350 $\mu$ s			
Nominal Discharge Current, $I_n$	50 kA 8/20 $\mu$ s	40 kA 8/20 $\mu$ s		
Protection Modes	Single mode (L-G, L-N or N-G)			
Voltage Protection Level, $U_p$	400 V @ 3 kA 1.0 kV @ 20 kA	700 V @ 3 kA 1.2 kV @ 20 kA	800 V @ 3 kA 1.6 kV @ 20 kA	1.8 kV @ 3 kA 2.4 kV @ 20 kA
Status	N/O, N/C Change-over contact, 250 V ~/0.5 A, max 1.5 mm <sup>2</sup> (#14 AWG) terminals Mechanical flag / remote contacts (R model only)			
Dimensions H x D x W: mm (in)	90 x 68 x 35 (3.54 x 2.68 x 1.38)			
Module Width	2 M			
Weight: kg (lbs)	0.24 (0.53)			
Enclosure	DIN 43 880, UL® 94V-0 thermoplastic, IP 20 (NEMA®-1)			
Connection	≤25 mm <sup>2</sup> (#4AWG) stranded ≤35 mm <sup>2</sup> (#2AWG) solid			
Mounting	35 mm top hat DIN rail			
Temperature	-40°C to 80°C (-40°F to 176°F)			
Approvals	CE, IEC® 61643-1, UL® 1449 Edition 3 Recognized Component Type 2			
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 $\mu$ s, 10 kA 10/350 $\mu$ s IEC 61643-1 Class I and Class II UL® 1449 Edition 3 In 20 kA mode			
Replacement MOV Module	TDS150M150	TDS150M240	TDS150M277	TDS150M560

