

TDS1100

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

TDS Surge Diverter - TDS1100 Series

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.

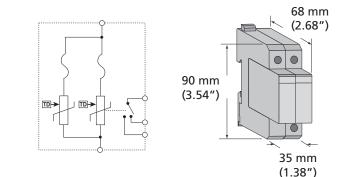
The TDS1100 series of surge suppressors is designed to provide economical and reliable protection from voltage transients on power distribution systems. They are conveniently packaged for easy installation on 35 mm DIN rail within main distribution panelboards.

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.



Item Number for Europe 702409 702411 702412 702413 Nominal Voltage, Un 120-150 VAC 220-240 VAC 240-277 VAC 480-560 VAC Max Cont. Operating Voltage, Un 170 VAC 275 VAC 320 VAC 610 VAC Stand-off Voltage 240 VAC 440 VAC 480 VAC 700 VAC Short Circuit Current Rating, Inc 200 kAIC 320 VAC 700 VAC Back-up Overcurrent Protection 125 AgL, if supply > 100 A 320 VAC 700 VAC Max Discharge Current, Imax 100 kA 8/20 µs TD Technology with thermal disconnect 700 VAC Max Discharge Current, Imax 100 kA 8/20 µs 40 kA 8/20 µs 700 VAC Protection Modes Single mode (L-G, L-N or N-G) 700 V@ 3 kA 1.8 kV @ 3 kA Vol, N/C Change-over contact, 250 V-/0.5 A, max 1.5 mm² (#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) 700 VAC Module Width 2 M 2.40 (0.53) 2.51 ma² (#4AWG) stranded c35 mm² (#4AWG) stranded c35 mm² (#4AWG) stranded c35 mm² (#4AWG) stranded					
Nominal Voltage, Un 120-150 VAC 220-240 VAC 240-277 VAC 480-560 VAC Max Cont. Operating Voltage, Uc 170 VAC 275 VAC 320 VAC 610 VAC Stand-off Voltage 240 VAC 440 VAC 480 VAC 610 VAC Frequency 0-100 Hz 700 VAC 700 VAC 700 VAC Short Circuit Current Rating, Ig 200 kAIC 480 VAC 700 VAC Back-up Overcurrent Protection 125 AgL, if supply > 100 A 700 VAC Technology TD Technology with thermal disconnect 700 VAC Max Discharge Current, Imax 100 kA 8/20 µs 700 V@ 3 kA 1.8 kV @ 3 kA Inpulse Current, Imax 50 kA 8/20 µs 700 V @ 3 kA 1.8 kV @ 3 kA 1.8 kV @ 20 kA Not we 20 kA 1.2 kV @ 20 kA 1.2 kV @ 20 kA 1.4 kV @ 20 kA 2.4 kV @ 20 kA Status 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) Dimensions H x D x W: mm (in) 90 x 68 x 35 (3.54 x 2.68 x 1.38) 700 V @ 3 kA 1.8 kV @ 3 kA Module Width 2 M 2 M 2 M </th <th>Model</th> <th></th> <th></th> <th></th> <th>TDS11002SR560</th>	Model				TDS11002SR560
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 5 700 VAC 480 VAC 700 VAC Short Circuit Current Rating, I _x 200 kAIC 200 kAIC 700 VAC 700 VAC Back-up Overcurrent Protection 125 AgL, if supply > 100 A 700 VAC 700 VAC Back-up Overcurrent I _{max} 100 kA 8/20 µs 700 VAC 700 VAC Max Discharge Current, I _{max} 100 kA 8/20 µs 700 VAC 700 VAC Nominal Discharge Current, I _{max} 100 kA 8/20 µs 700 V@ 3 kA 800 V@ 3 kA 1.8 kV@ 3 kA Protection Modes Single mode (L-G, L-N or N-G) 700 V@ 3 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA VlOa, N/C Change-over contacts, Z50 V-/0.5 A, max 1.5 mm² (#14 AWG) terminals Mechanical flag / remote contacts (R model only) 2.4 kV @ 20 kA Dimensions H x D x W: mm (in) 90 x 68 x 35 (3.54 x 2.68 x 1.38) 2.4 kV @ 20 kA 2.4 kV @ 20 kA Meight: kg (lbs) 0.24 (0.53) 7.60 V/C 0.53) 7.60 V/C 0.53) 7.					
Stand-off Voltage 240 VAC 440 VAC 480 VAC 700 VAC Frequency 0-100 Hz	Nominal Voltage, Un				
Frequency 0-100 Hz Short Circuit Current Rating, I _x 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 µs Impulse Current, I _{imp} 12.5 kA 10/350 µs Nominal Discharge Current, I _n 50 kA 8/20 µs 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 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 2.4 kV @ 20 kA Status 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) 00 x 68 x 35 (3.54 x 2.68 x 1.38) 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, UL94V-0 thermoplastic, IP 20 (NEMA-1) 25 mm² (#4AWG) stranded <25 mm² (#4AWG) solid 35 mm² (#2AWG) solid Mounting 35 mm² (#2AWG) solid 35 mm² (#2AWG) solid Mounting 35 mm² (#2AWG) solid Mos 00% Approvals CE, IEC® 61643-1, UL® 1449 E	Max Cont. Operating Voltage, U _c		275 VAC	320 VAC	610 VAC
Short Circuit Current Rating, Isc. 200 kAIC Back-up Overcurrent Protection 125 AgL, if supply > 100 A Technology TD Technology with thermal disconnect Max Discharge Current, Imax 100 kA 8/20 µs Impulse Current, Imax 100 kA 8/20 µs Nominal Discharge Current, Imax 50 kA 8/20 µs Protection Modes Single mode (L-G, L-N or N-G) Voltage Protection Level, Up 400 V @ 3 kA 700 V @ 3 kA 800 V @ 3 kA 1.8 kV @ 3 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.8 kV @ 3 kA 1.0 kV @ 20 kA 1.6 kV @ 20 kA Status N/O, N/C	Stand-off Voltage		440 VAC	480 VAC	700 VAC
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 µs Impulse Current, I _{imp} 12.5 kA 10/350 µs Nominal Discharge Current, I _{im} 50 kA 8/20 µs Protection Modes Single mode (L-G, L-N or N-G) Voltage Protection Level, U _p 400 V @ 3 kA 700 V @ 3 kA 800 V @ 3 kA 1.8 kV @ 3 kA Status 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) 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, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection ≤25 mm² (#4AWG) solid S35 mm² (#2AWG) solid S35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C Mounting 25 mar (26 61643-1, Class I and Class II UL® 1449 Ed. 3 In 20 kA mode A 10/350 µs<	Frequency	0-100 Hz			
Technology TD Technology with thermal disconnect Max Discharge Current, I _{max} 100 kA 8/20 µs Impulse Current, I _{imp} 12.5 kA 10/350 µs Nominal Discharge Current, I _n 50 kA 8/20 µs 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 1.6 kV @ 20 kA 1.8 kV @ 3 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 2.4 kV @ 20 kA Status 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) module Width 2 M 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, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection ≤25 mm² (#4AWG) stranded <35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% A SI®//IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®//IEEE® C62.41.2 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 k					
Max Discharge Current, I _{max} 100 kA 8/20 μs Impulse Current, I _{imp} 12.5 kA 10/350 μs Nominal Discharge Current, I _n 50 kA 8/20 μs 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 1.6 kV @ 20 kA 1.8 kV @ 3 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 2.4 kV @ 20 kA Status 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) model width 2.4 kV @ 20 kA 2.4 kV @ 20 kA 2.4 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @	Back-up Overcurrent Protection	125 AgL, if supply > 100 A			
Impulse Current, I _{imp} 12.5 kA 10/350 µs Nominal Discharge Current, In 50 kA 8/20 µs 40 kA 8/20 µs Protection Modes Single mode (L-G, L-N or N-G) 40 kA 8/20 µs Voltage Protection Level, Up 400 V @ 3 kA 700 V @ 20 kA 800 V @ 3 kA 1.8 kV @ 3 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA <	Technology	TD Technology with thermal disconnect			
Nominal Discharge Current, In 50 kA 8/20 µs 40 kA 8/20 µs Protection Modes Single mode (L-G, L-N or N-G) 400 V @ 3 kA 800 V @ 3 kA 1.8 kV @ 3 kA Voltage Protection Level, Up 400 V @ 20 kA 700 V @ 3 kA 800 V @ 20 kA 1.8 kV @ 20 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 2.4 kV @ 20 kA Status 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) 90 x 68 x 35 (3.54 x 2.68 x 1.38) Dimensions H x D x W: mm (in) 90 x 68 x 35 (3.54 x 2.68 x 1.38) Weight: kg (lbs) O.24 (0.53) 0.24 (0.53) Enclosure DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection ≤25 mm² (#4AWG) stranded <35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Sat	Max Discharge Current, I _{max}	100 kA 8/20 μs			
Protection Modes Single mode (L-G, L-N or N-G) Voltage Protection Level, U _p 400 V @ 3 kA 700 V @ 3 kA 800 V @ 3 kA 1.8 kV @ 3 kA 1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA 2.4 kV @ 20 kA Status 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) Dimensions H x D x W: mm (in) 90 x 68 x 35 (3.54 x 2.68 x 1.38) Weight: kg (lbs) Dimensions H x D x W: mm (in) 90 x 68 x 35 (3.54 x 2.68 x 1.38) Weight: kg (lbs) Connection 2 M Standed Source DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection <25 mm² (#4AWG) stranded <35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC % 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs IEC 61643-1 Class I and Class II	Impulse Current, I _{imp}				
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 mm² (#14 AWG) terminals Mechanical flag / remote contacts (R model only) 2.4 kV @ 20 kA 2.4 kV @ 20 kA 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, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection ≤25 mm² (#4AWG) stranded ≤35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC® 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 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 100 kA 8/20 µs, 10 kA 10/350 µs		50 kA 8/20 µs	40 kA 8/20 µs		
1.0 kV @ 20 kA 1.2 kV @ 20 kA 1.6 kV @ 20 kA 2.4 kV @ 20 kA Status 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) 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, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection <25 mm² (#4AWG) stranded ≤35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC® 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 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	Protection Modes				
Status N/O, N/C Change-over contact, 250 V-/0.5 Å, max 1.5 mm² (#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, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection ≤25 mm² (#4AWG) stranded ≤35 mm² (#2AWG) solid 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC® 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C UL® 1449 Ed. 3 In 20 kA mode UL® 1449 Ed. 3 In 20 kA mode	Voltage Protection Level, Up	400 V @ 3 kA	700 V @ 3 kA	800 V @ 3 kA	1.8 kV @ 3 kA
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, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection <25 mm² (#4AWG) stranded <35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC° 61643-1, UL° 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C UL® 1449 Ed. 3 In 20 kA mode UL® 1449 Ed. 3 In 20 kA mode		1.0 kV @ 20 kA	1.2 kV @ 20 kA	1.6 kV @ 20 kA	2.4 kV @ 20 kA
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, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection ≤25 mm² (#4AWG) stranded ≤35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC° 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C UL® 1449 Ed. 3 In 20 kA mode UL® 1449 Ed. 3 In 20 kA mode	Status				
Module Width 2 M Weight: kg (lbs) 0.24 (0.53) Enclosure DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection ≤25 mm² (#4AWG) stranded ≤35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC° 61643-1, UL° 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE° C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE° C62.41.2 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					
Module Width 2 M Weight: kg (lbs) 0.24 (0.53) Enclosure DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection ≤25 mm² (#4AWG) stranded ≤35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC° 61643-1, UL° 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE° C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE° C62.41.2 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	Dimensions H x D x W: mm (in)	90 x 68 x 35 (3.54 x 2.68 x 1.38)			
Enclosure DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection <25 mm² (#4AWG) stranded <35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC® 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 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	Module Width	2 M			
Enclosure DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1) Connection ≤25 mm² (#4AWG) stranded ≤35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC® 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 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	Weight: kg (lbs)				
≤35 mm² (#2AWG) solid Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC° 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 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	Enclosure				
Mounting 35 mm top hat DIN rail Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC° 61643-1, UL° 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE° C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE° C62.41.2 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	Connection	≤25 mm ² (#4AWG) stranded			
Temperature -40°C to 80°C (-40°F to 176°F) Humidity 0% to 90% Approvals CE, IEC® 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 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		≤35 mm² (#2AWG) solid			
Humidity 0% to 90% Approvals CE, IEC® 61643-1, UL® 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 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	Mounting				
Approvals CE, IEC [®] 61643-1, UL [®] 1449 Ed. 3 Recognized Component Type 2 Surge Rated to Meet ANSI [®] /IEEE [®] C62.41.2 Cat A, Cat B, Cat C ANSI [®] /IEEE [®] C62.41.2 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	Temperature	-40°C to 80°C (-40°F to 176°F)			
Surge Rated to Meet ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 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	Humidity	0% to 90%			
ANSI®/IEEE® C62.41.2 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	Approvals	CE, IEC [®] 61643-1, UL [®] 1449 Ed. 3 Recognized Component Type 2			
IEC 61643-1 Class I and Class II UL® 1449 Ed. 3 In 20 kA mode	Surge Rated to Meet	ANSI®/IEEE® C62.41.2 Cat A, Cat B, Cat C			
IEC 61643-1 Class I and Class II UL® 1449 Ed. 3 In 20 kA mode	-	ANSI®/IEEE® C62.41.2 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs			
UL® 1449 Ed. 3 In 20 kA mode					
		UL® 1449 Ed. 3 In 20 kA mode			
Aepiacement ivity ividence 1105150/0150 1105150/0240 1105150/0277 1105150/01560	Replacement MOV Module	TDS150M150	TDS150M240	TDS150M277	TDS150M560



