

Compact Multi-pole SPD DVSB Class B Surge Protection Device Single Phase TNS

12.5 kA Series**Class I • Class II • Type 1 • Type 2**

Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L - PE, N - PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA}$ (10/350 μs)
 $I_n = 20 \text{ kA}$ (8/20 μs)
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data
**DVSBXXX652TNS Class B Surge
Protection Device Single Phase TNS**

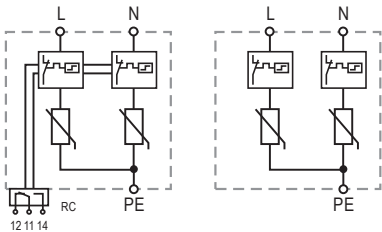
		150	275*	320*	440
Electrical					
Nominal AC Voltage (50/60Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n		20 kA		
Maximum Discharge Current (8/20 μs)	I_{max}		50 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}		12.5 kA		
Total Discharge Current (10/350 μs)	I_{total}		25 kA		
Specific Energy	W/R		39 kJ/ Ω		
Charge	Q		6.25 As		
Voltage Protection Level	U_p	< 1.0 kV	< 1.5 kV	< 1.5 kV	< 1.9 kV
Response Time	t_A		< 25 ns		
Back-Up Fuse (if mains > 250 A)			250 A gG		
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA		
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
Number of Ports			1		
Mechanical & Environmental					
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)			
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Fault Indication		Red Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/0.5 A; 125V/3 A			
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]			

DVSB Class B Surge Protection
Device Single Phase TNS

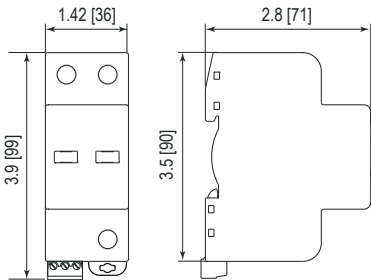
12.5 kA Series

Internal Configuration

- Legend
- L Line
 - N Neutral
 - PE Protective Earth
 - RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging					
DVSBXXX652TNS		150	275	320	440
Single Unit Weight	pounds	.418	.507	.507	.837
	grams	190	230	230	380
Packaging Dimensions (H x W x L)			2 TE		
Single Unit DIN 43880 Dimension			4.2 x 3 x 1.6" [109 x 77 x 42mm]		
Minimum Order Quantity			7 Units		

inches
[mm]

Information contained in this document is subject to change at any time without notice.