

Compact Multi-pole SPD DVSB Class B Surge Protection Device Three Phase & Neutral TNS

25 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: $I_{imp} = 25 \text{ kA}$ (10/350 μs)
 $I_n = 25 \text{ kA}$ (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**DVSBXXX1004TNS Class B Surge
Protection Device Three Phase TNS**

		150	275*	400	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		25 kA		
Maximum Discharge Current (8/20 μs)	I_{max}		100 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}		25 kA		
Total Discharge Current (10/350 μs)	I_{total}		100 kA		
Specific Energy	W/R		156 kJ/ Ω		
Charge	Q		12.5 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		35mm 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/0.5A; 125V/3A			
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]			

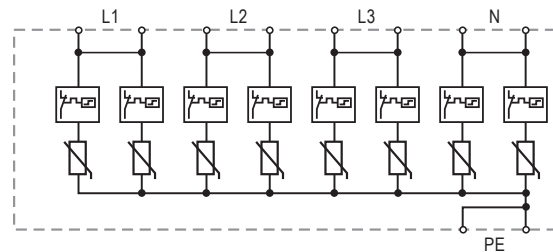
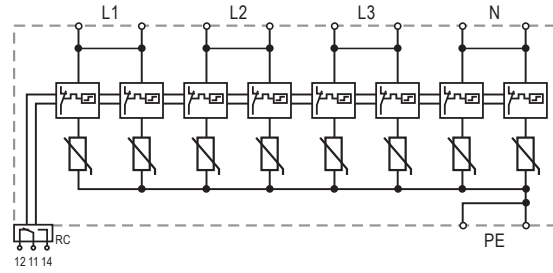
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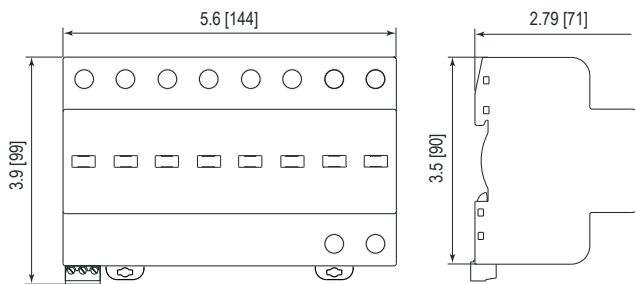
Internal Configuration

Legend

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



Dimensions & Packaging



Dimensions & Packaging

DVSBXXX1004TNS		150	275	400	440
Single Unit Weight	pounds	2.182	2.623	2.623	2.998
	grams	990	1190	1190	1360
Single Unit DIN 43880 Dimension		8 TE			
Packaging Dimensions (H×W×L)		4.2 × 3 × 5.8" [109 × 77 × 148mm]			
Minimum Order Quantity		2 Units			

inches
[mm]

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