

Lightening Surge Coupling/Decoupling Network

SPN 3832TM



- IEC/EN 61000-4-5
- GB/T 17626.5

Features

- > Max. EUT voltage AC 450 V (Lx-Lx), AC 250 V (Lx-N/PE), DC 220 V, 16 A
- > Max. EUT current 32 A
- > Manual selection of differential mode or common mode testing
- > Compliant with IEC/EN 61000-4-5 standard
- > Compatible with surge generators from other manufacturers

Introduction

The SPN 3832TM Lightning Surge Coupling/Decoupling Network (three-phase) complies with IEC/EN 61000-4-5, and can be combined with CCS and CWS series instruments to form an EMC surge test system. It is compatible with surge generators from other manufacturers upon request.

The coupling path is manually selectable, with the Max. coupling test voltage of 6.6 kV (1.2/50 μ s). The EUT supports maximum loads of AC 450 V (Lx-Lx), AC 250 V (Lx-N/PE) 32 A, and DC 220 V 16 A.

Application Areas



Technical Parameters

Manual CDN	Compliant with IEC/EN 61000-4-5
Max. Test Voltage	6.6 kV (1.2/50 μ s)
Max. Test Current	3.3 kA (8/20 μ s)
Coupling Network Port	L1 (DC+), L2, L3, N (DC-), PE
Coupling Path	Differential mode test: Lx-Lx/N Common mode test: Lx/N-PE
Coupling Switching Mode	Manual switching
Coupling Capacitor	9 μ F, 18 μ F (Manual network selection based on test requirements)
Coupling Resistor	10 Ω /0 Ω
EUT Load Capability	Max AC 450 V (Lx-Lx), 32 A Max AC 250 V (Lx-N/PE), 32 A Max DC 220 V 16 A
Residual Pulse Voltage at EUT Injection Port	$\leq$ 15% of the applied test pulse voltage or $\leq$ 2 times the peak voltage rating of the coupling/decoupling network

General Parameters

Working power	AC 110 V/220 V $\pm$ 10%, 50/60 Hz $\pm$ 5%
Fuse	6 A
Max. Power Consumption	100 W
Grounding method	Banana grounding wire
Dimension	6 U rack
Weight	Approx. 38 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cable, Grounding Wire, User Manual

Optional Accessories

1	Combination Lightning Surge Simulator	Model: CWS 600X Standard: IEC 61000-4-5 Max. impulse output: 6.0 kV (1.2/50 μ s), 3.0 kA (8/20 μ s)	
2	Compact Combination Simulator	Model: CCS 600 Standard: IEC 61000-4-5 Max. impulse output: 6.0 kV (1.2/50 μ s), 3.0 kA (8/20 μ s)	
3	High-Voltage Differential Probe	Model: VCF-80 Max. test voltage: 8 kV Attenuation: 1,000:1 For open circuit voltage waveform calibration of CWS	
4	Broadband Current Monitor Probe	Model: CM 0220M Test short circuit current: 0.01 V/A	

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