



HV High Power Lightning Surge Coupling/Decoupling Network

SPN 6932T10

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

Features

- > EUT AC load capability AC 690 V / 32 A, three-phase five-wire
- > Automatic switching of EUT power supply
- > Test Schedule of voltage, polarity, phase synchronization angle etc. for fully automated network switching
- > Supports phase angle superimposition of any selected lines

Introduction

The SPN 6932T10 HV High Power Lightning Surge Coupling/Decoupling Network provides fully automated three-phase coupling and decoupling functions. It supports both AC and DC power supply tests and is designed for use with CCS and CWS series instruments.

The EUT supports a maximum load capability of AC 690 V / 32 A, three-phase five-wire. Other EUT voltage and current ratings can be customized according to customer requirements.

Application Areas



Technical Parameters

Automated single-phase/three-phase CDN	Complies with EN/IEC 61000-4-5 requirements Supports combination lightening surge testing with output voltage up to 10.0 kV (1.2/50 μ s) and output current up to 5.0 kA (8/20 μ s) Note: The actual pulse voltage output of the CDN depends on the surge generator setting.
Phase Synchronization	Any line-to-line and line-to-ground phase angles superimposition (L1, L2, L3, N, PE)
Coupling Path	Any combination of L1, L2, L3, N, and PE
Coupling Switching Mode	Automatic switching, test sequence
Coupling Capacitor	9 μ F, 18 μ F
Coupling Resistor	10 Ω , 0 Ω IEC standard mode or customized mode selectable
Attenuation	< 2 dB
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 CDN

General Parameters

EUT Load Capacity	Max AC 690 V 32 A 50/60 Hz three-phase five-wire Max DC 110 V 16 A
EUT Power Switching Mode	Automatic switching
Working power	AC 110 V/220 V $\pm$ 10%, 50/60 Hz $\pm$ 5%
Fuse	6 A
Max. Power Consumption	300 W
Auxiliary Interface	D-sub 25pin
Working Status Indication	LED indication on front panel
Grounding method	Flat grounding wire
Dimension	22 U rack, 600 (W)*1,250 (H)* 800 (D) mm
Weight	Approx. 100 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, Fuse

Optional Accessories

1	Combination Lightning Surge Simulator	Model: CWS 600x Standard: IEC 61000-4-5 Max. pulse output: 6.0 kV (1.2/50 μ s), 3.0kA (8/20 μ s)	
2	Combination Lightning Surge Simulator	Model: CWS 800x Standard: IEC 61000-4-5 Max. pulse output: 8.0 kV (1.2/50 μ s), 4.0kA (8/20 μ s)	
3	Combination Lightning Surge Simulator	Model: CWS 1000x Standard: IEC 61000-4-5 Max. pulse output: 10.0 kV (1.2/50 μ s), 5.0kA (8/20 μ s)	
4	Compact Combination Simulator	Model: CCS 600x Standard: IEC 61000-4-5 Max. pulse output: 6.0 kV (1.2/50 μ s), 3.0 kA (8/20 μ s) Standard: IEC 61000-4-4 Max. pulse output: 4.8 kV	
5	EFT/Burst Generator	Model: EFT 500x Standard: IEC 61000-4-4 Max. pulse output: 4.8 kV	
6	High-Voltage Differential Probe	Model: VCF-80 Max. test voltage: 8 kV Attenuation: 1,000:1 For open circuit voltage waveform calibration of CWS	
7	High-voltage current sensor	Model: TR5025 Max. test current: 20 kA Attenuation: 100:1 For short circuit current waveform calibration of CWS	
8	EFT/Burst Calibration Kit	Model: EFT-CA-KIT (SHV) Including: Attenuator TFB 500(SHV): 50 Ω load, 500:1 Attenuator: TFB 1000(SHV): 1000 Ω load, 1000:1 HV-RF connector: SHV-BNC-JJ BNC to banana plug: BNC(K)-2BP(J)	

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