

HV High-Power Coupling/Decoupling Network **SEPN 69200T(7150200)**



- IEC/EN 61000-4-4
- IEC/EN 61000-4-5
- IEC 61000-6-1
- IEC 61000-6-2
- GB/T 17626.4
- GB/T 17626.5

Features

- > EUT DC load capacity 1,500 V DC, 200 A
- > EUT AC load capacity 700 V AC, 200 A, three-phase five-wire
- > Automatic EUT power switching
- > Support overcurrent protection
- > Scheduled setting of test parameters, including test voltage, polarity, and phase synchronization angle, enabling fully automatic network switching
- > Phase angle superposition of any combination of lines

Introduction

The SEPN 69200T(7150200) HV High-Power 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, CWS, and EFT series generators.

The EUT supports maximum load capabilities of DC 1,500 V/200 A and AC 700 V/200 A (three-phase five-wire). Other EUT voltage and current ratings can be customized according to customer requirements.

Application Areas



Technical Parameters

IEC/EN 61000-4-4 EFT/Burst Tests Technical Parameters	
Automatic Three-Phase CDN	EFT/Burst testing, Max. test voltage 5.5 kV Note: The actual pulse voltage output of the CDN depends on the setting of the surge generator.
Phase Synchronization	Phase angle superposition between any lines of L1, L2, L3, N, and PE
Coupling Path	Supports any combination of L1, L2, L3, N, and PE paths
DC Coupling Path	L1, N
Coupling Switching Mode	Automatic switching, scheduling function
Coupling Capacitor	33 nF
Coupling Attenuation	<2 dB
Residual Pulse Voltage at EUT Injection Port	< 10% of the applied test pulse voltage
IEC/EN 61000-4-5 Surge Tests Technical Parameters	
Automatic Three-Phase CDN	Combination wave lightning surge test: Max. 10.0 kV (1.2/50 μ s) voltage and 5.0 kA (8/20 μ s) current Note: The actual pulse voltage output of the CDN depends on the setting of the surge generator.
Phase Synchronization	Phase angle superimposition for any line-to-line or line-to-ground combinations (L1, L2, L3, N, and PE)
Coupling Path	Supports any combination of L1, L2, L3, N, and PE paths
Coupling Switching Mode	Automatic switching, scheduling function
Coupling Capacitor	9 μ F, 18 μ F
Coupling Resistor	10 Ω / 0 Ω IEC standard mode or customized mode selectable
Coupling 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 700 V 200 A, 50 Hz /60 Hz, three-phase five-wire Max DC 1,500 V 200 A
EUT Power Switching Mode	Automatic switching
Working Power	AC 110 V / 220 V $\pm$ 10%, 50 Hz /60 Hz $\pm$ 5%
Fuse	10 A
Max. Power Consumption	200 W
Auxilliary Interface	D-sub 25pin
Working Status Indication	Front panel LED indication
Grounding Method	Flat grounding wire
Dimension	35U rack
Weight	Approx. 180 kg
Ambient Temperature	15 $^{\circ}$ C ~ 35 $^{\circ}$ C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

User Manual, Fuse, Three-core Power Cord, Test Cable, Coaxial Cable, CN25 Cable, Grounding Wire

Optional Generator

1	EFT/Burst Generator	Model: EFT 500x/600x/700x Standard: IEC 61000-4-4	
2	Combination Lightning Surge Simulator	Model: CWS 600x/800x/1000x Standard: IEC 61000-4-5 Output waveform: 1.2/50 μ s, 8/20 μ s	
3	Compact Combination Simulator	Model: CCS 600x/1000x Standard: IEC 61000-4-4/-5 Output waveform: 1.2/50 μ s, 8/20 μ s	

Optional Accessories

1	High-Voltage Differential Probe	Model: VCF-80 Max. test voltage: 8 kV Attenuation: 1,000:1 For open circuit voltage waveform calibration of CWS	
2	High-voltage current sensor	Model: TR5025 Max. test current: 20 kA Attenuation: 100:1 For short circuit current waveform calibration of CWS	
3	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)	

SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



3CTEST is always striving for product innovation and quality improvement. Product appearance and technical specifications are subject to change without further notice.