

Coupling/Decoupling Networks for Surge Immunity Test **SPN 4863T10**



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

Features

- > Supports EUT power supplies up to 480 V AC (line-to-line) or 500 V DC
- > EUT current capacity 0 ~ 63 A
- > Surge coupling voltage up to 10.0 kV, current up to 5 kA
- > Automatic selection of coupling paths and phase synchronization
- > Integrated EUT overcurrent protection
- > LED indication of the active pulse coupling path
- > Integrated emergency stop button for enhanced safety

Introduction

The SPN 4863T10 is an automatic coupling/decoupling network (CDN) designed for surge immunity testing in accordance with IEC 61000-4-5. It couples the specified disturbances onto the power lines of EUTs rated up to 480 V AC, 63 A three-phase or 500 V DC, 63 A. The CDN is compatible with 3C TEST CCS, CWS, and RWS series generators.

Application Areas



Technical Parameters

Max. Test Voltage	10.0 kV
Voltage at CDN Port	0.25 kV ~ 10.0 kV $\pm$ 10% (10 kV generator)
Phase Synchronization	0° ~ 360°
Coupling Route	L1, L2, L3, N, PE, DC+, DC-
Coupling Mode	Automatic
Coupling Capacitor	9 μ F, 18 μ F
Coupling Resistor	10 Ω , 0 Ω
Coupling Attenuation	<2 dB
Surge Injection Port	6 mm banana plug
Residual Pulse Voltage of EUT Injection Port	Not exceed 15 % of the maximum applied test voltage or twice the rated peak voltage of the CDN, whichever is higher.

General Parameters

EUT Voltage	Max. AC 3-phase 480 V (line-to-line) 50 Hz /60 Hz Max. DC 500 V
EUT Current	0 ~ 63 A
EUT Power Switching Mode	Automatic
Working Power	AC 220 V $\pm$ 10%, 50 Hz /60 Hz
Fuse	6 A
Max. Power Consumption	300 W
Auxiliary Interface	D-sub 25p
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. 88 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

User Manual, Power Cord, Test Cables, Grounding Wire, Fuses (Spare Parts), RF Cables, CN25 Parallel Line, Surge Calibration Cable

Optional Accessories

Surge CDN Calibration			
1	10 kV Surge Calibration Capacitor Module	Model: CCM 1000 Enclosure withstand voltage: 10 kV Calibration capacitor: 18 μ F	
2	High-Voltage Differential Probe	Model: VCF-80 Max. test voltage: 8 kV Attenuation: 1,000:1	
3	Wideband Current Monitor Probe	Model: CM 0220M Max. peak current: 20 kA Sensitivity: 0.01 V/A	

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