

## CDN for EFT/Burst and Surge Immunity Tests

### SPN/SEPN/EFTN series

#### Datasheet



#### In Compliance with

- > IEC/EN 61000-4-4
- > IEC/EN 61000-4-5
- > GB/T 17626.4
- > GB/T 17626.5

#### Introduction

The SEPN, SPN and EFTN series are new-generation three-phase five-wire automatic coupling/decoupling network, which combine coupling/decoupling function of surge and EFT/burst immunity tests. It is used together with CCS600, CWS 600 and EFT 500 simulators to couple surge or EFT/burst pulses onto AC/DC mains supply system. This series support customization as per customer requirement.

#### Features

- > Support customization according to actual EUT load;

>

#### Application Areas

- > Communication      > IT
- > Telecom              > Military
- > Medical                > Avionics
- > Broadcast             > New energy electrical power
- > Railway

EFT/Burst test as per IEC 61000-4-4	
Standard	IEC/EN 61000-4-4, GB/T 17626.4
Test Voltage	0.25 kV ~ 4.2 kV, ± 10%
Polarity	Positive, negative
Pulse Frequency	0.1 kHz ~ 1000 kHz
Synchronization	0° ~ 360°, 1° step or random
Coupling Network	Three-phase automatic CDN (see optional models)

Surge immunity test as per IEC 61000-4-5	
Standard	IEC/EN 61000-4-5, GB/T 17626.5
Test Voltage	0.3 kV ~ 6 kV, ±10%
Test Current	0.15 kA ~ 3 kA, ±10%
Current Waveform	Front time: 8 $\mu$ s±20%, time to half value: 20 $\mu$ s±20%
Source Output Impedance	2 ohm
Output Polarity	+/-/alternative
Coupling Capacitance	9 $\mu$ F, 18 $\mu$ F
Coupling Resistance	10 ohm, 0 ohm, IEC standard mode or customized mode
Synchronization	0° ~ 360°, 1° step or random
Coupling Network	Three-phase automatic CDN (see optional models)

General Parameters	
Working Mains	AC110 V / 220 V, ±10%, 50/60 Hz (default AC 220 V in China)
External Control	25 Pin D-Bus
Working Indicator	LED front panel
Detection Output	1 m standard coaxial cable
Dimension	19 inch/6U
Weight	approx. 50 kg
Ambient Temperature	15 °C~35 °C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Basic equipment
Four-core plug, Three-core power cord, Four-core socket, Test line, Ground line, User manual, Fuse, Coaxial cable

Optional Models	
1. SEPN series	CDN for surge and burst
SEPN 2216S	Single phase-3-wire AC 220 V 16 A, Max 250 V
SEPN 2232S	Single phase-3-wire AC 220 V 32 A, Max 250 V
SEPN 3816T	Three-phase-5-wire AC 380 V 16 A, Max 440 V
SEPN 3832T	Three-phase-5-wire AC 380 V 32 A, Max 440 V
SEPN 6932T	Three-phase-5-wire AC 690 V 16 A, Max 750 V
2. SPN series	CDN for lightning surge
SPN 3816T	Three-phase-5-wire AC 380 V 16 A, Max 440 V
SPN 2232S	Single phase-5-wire AC 220 V 32 A, Max 250 V
3. EFTN series	CDN for burst
EFTN 3832T	Three-phase-5-wire AC 380 V 32 A, Max 440 V
4. CCC 100	Capacitance coupling clamp
5. EMS Lab	Test software



## **SUZHOU 3CTEST ELECTRONIC CO., LTD.**

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

Tel: +86 (0)512 6807 7192      Fax: +86-512-68079795

Sales Email: [globalsales@3ctest.cn](mailto:globalsales@3ctest.cn)      Service Email: [service@3ctest.cn](mailto:service@3ctest.cn)

[www.3c-test.com](http://www.3c-test.com)