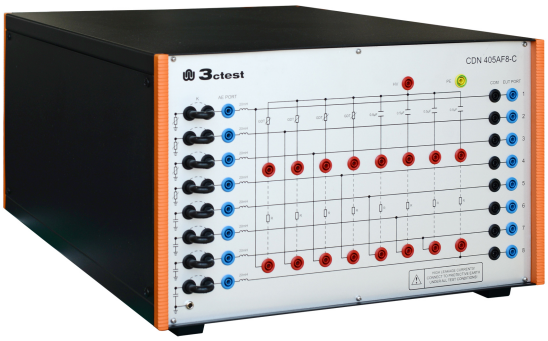
Surge Coupling/decoupling Networks for Unshielded Unsymmetrical Interconnection Lines CDN 405AF8-C

Datasheet



In Compliance with

> IEC/EN 61000-4-5

> GB/T 17626.5

Introduction

The CDN 405AF8-C is designed to conduct surge test on unshielded unsymmetrical interconnection lines as per figure 9 specified in IEC/EN 61000-4-5:2017 and applicable to surge combination waveform 1.2/50 μs, 8/20 μs with voltage up to 6 kV. It has four-line GDT coupling paths and four-line (0.5 μF) capacitor coupling paths, the tests of line-to-line, line-to-ground and four-line-to-ground can be conducted. Its powerful decoupling capability keeps auxiliary equipment from the impact of surge so as to ensure the test repeatability.

Features

> Line-to-line, line-to-ground and 4-line-to-ground tests can be conducted.

> No additional protection for auxiliary equipment is Needed;

> Through replacing current-limiting resistors, other surge waveform tests can be conducted;

Application Areas

> Communication
> Information Technology
> Telecom
> Military
> Medical
> Aviation
> Broadcast
> New Energy Power
> Railway

Technical Parameters	
Coupling Waveform	1.2/50 μs、8/20 μs
Pulse Voltage	6 kV (10 kV is available on request)
Coupling Mode	Line-to-ground、Line-to-Line or four-line-to-ground
Coupling Component	90 V GDT (built-in) 0.5 μF capacitor (built-in)
Output Impedance	40 Ω±5%（standard configuration）
Communication Port	4 mm banana plug
Working Voltage	Up to 6 V DC（GDT coupling） Up to 250 V AC/DC（Capacitor coupling）
Working Current	Up to 2 A
Decoupling Inductance	20 mH
Residual Voltage	＜10%（surge test voltage）; capacitor coupling ＜100 V（surge test voltage）; GDT coupling
General Parameters	
Weight	17 kg
Dimension	6U
Ambient Temperature	15 ℃ ~ 35 ℃ (operating condition)
Relative Humidity	45% ~ 75% (operating condition)

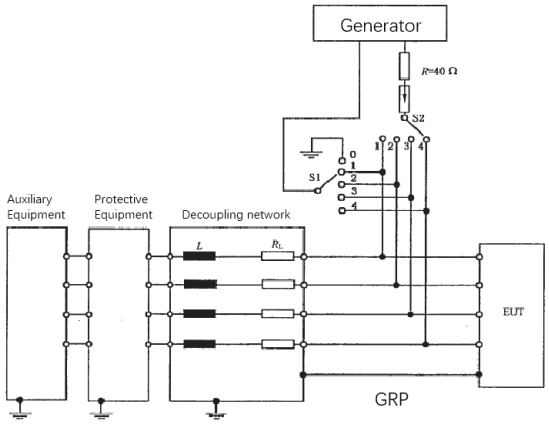
Accessories

Test line, Impedance Module SZR0, Impedance Module SZR40, User Manual

Options

SZR 80	80 Ω±5% 7 kV
SZR 160	160 Ω±5% 7kV

Schematic Diagram:



As per IEC 61000-4-5: 2017 Figure 9

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