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Instruments SCHAFFNER

CDN 110

Pulse Coupling Network CDN 110

- Coupling network for the High Energy Pulse Generator NSG 650
- For instrument and system tests
- Conforms to IEC 801-5, ANSI-IEEE C62.41, etc.
- EUT voltage up to 420 Vac, rms.
- EUT current up to 16 A

The CDN 110 Coupling Network is an add-on for the High Energy Pulse Generator, Type NSG 650 to enable instrument and system tests to be carried out. The pulses generated can thus be coupled into the mains supplies to the instruments, systems and installations under test.

These types of test are described in the test recommendations by the IEC 801-5, ANSI-IEEE C62.41, IEEE 587, VDE 0109 and in many national standards. Surge and ring wave pulses of up to 4 kV are required depending on the class of the test performed.

The CDN 110 permits test pulses of up to 7 kV.

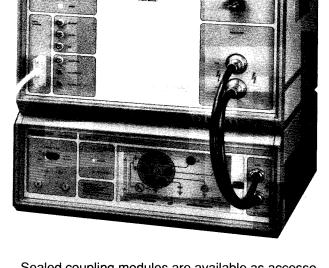
The permissible EUT supply voltage of up to 420 Vac covers all the requirements from the mains feed point of view.

Sealed coupling modules are available as accessories with which the required mode of coupling can be obtained by simply plugging them in.

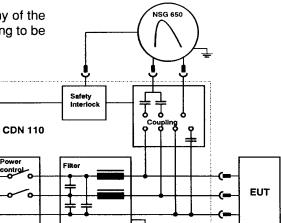
Considerable attention has been paid to the matter of personnel protection. The connections carrying the surge voltages are covered by an acrylic hatch with interlocking switches to prevent any danger through incorrect operation.

Accessoire such as the coupling modules, test enclosures, warning lamps, etc. make it easy for the user to build a safe test set-up.

The CDN 110 Coupling Network is built into a tabletop housing. Suitable mounting brackets are available for incorporating the unit into a 19" rack.



A clearly labeled connector field enables any of the symmetric and asymmetric modes of coupling to be selected.





Technical specifications

EUT supply Voltage, 50/60Hz

Current

Single-phase 24 ... 420 Vac

16 A max. continuous

Overload capability 150 % for 20 s

> 200 % for 8 s 500 % for 0.9 s 1000 % for 0.1 s

(at 23 °C)

Voltage drop at 16A

5%

Decoupling attenuation

Residual pulse on the **EUT to mains** mains: 10 % or max.

2 x Vpk of the EUT

supply

Residual pulse on non-Crosstalk attenuation

> disturbed line: 15 % or max, 300 V

Standard-conforming

pulse coupling

1.2/50 μs up to 6 kV

8/20 µs up to 3 kA

Couplina:

Coupling capacitors

18 μF or 9 μF (depending on coupling mode)

Decoupling capacitors 9μF

Decoupling inductors

1.5 mH (without magnetic coupling)

Coupling modes:

symmetric L1 > L2 asymmetric L1+L2 > E

> L1 > E L2 > E

Non-disturbed line can be set for high or low HF impedance to earth.

Supply source

Supplied from the Gen-

erator NSG 650

Mechanical specifications:

Dimensions

Width: Height: 449 mm (17.7") 183 mm (7.2")

Depth:

461 mm (18.2")

Weight

17 kg (37.5 lbs) approx.

Operating and display

elements:

Connectors and LED displays completed by safety

components

Ordering information

CDN 110 Surge Pulse Coupling Network

> The unit is supplied complete with a cable for the EUT supply, 4 cables for coupling mode selection, safety banana plugs for connecting the EUT and the operating

instructions.

Optional accessories

Coupling modules

INA 201 L1 + L2 > E**INA 202** L1 > E (L2 open)

L1 > E (L2 capacitively to earth) **INA 203**

INA 204 L2 > E (L1 open)

INA 205 L2 > E (L1 capacitively to earth)

INA 206 L1> L2

INA 120 Test enclosure with acrylic hood, high

voltage cable and safety circuit

Warning lamp unit. External warning device INA 140

with red and green lamps as per VDE

0104

INA 160 Mounting brackets for assembly of the

unit in a 19" rack

Subject to change without notice

SCHAFFNER

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