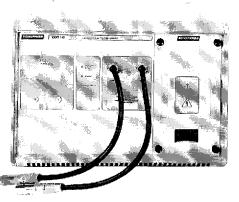


Advanced Test Equipment Rentals - www.atecorp.com 800-404-ATEC (2832)

Surge Pulse Coupling Network

CDN 113

- Coupling network for 1.2/50 8/20 μ s surge pulses
- 3-phase coupling
- Compatible with generators type NSG 650/NSG 651
- Conforms to IEC 801-5, ANSI-IEEE C 62.45, etc
- ullet EUT supply voltages up to 440 ullet rms
- EUT current > 16 Amps per phase



The coupling network type CDN 113 enables hybrid surge pulses to be coupled into 3-phase equipment, systems and installations.

The coupler precisely matches the surge generators type NSG 650 and NSG 651 both electrically and mechanically. Permanently mounted high voltage cables with touch-proof connectors link the coupler with either of the generators which also supply the power for the associated safety circuit.

The toughest test class of the relevant standards calls for pulse voltages of up to 6 kV with corresponding peak currents of up to 3 kA. The coupling network type CDN 113 can withstand voltages of over 7 kV and hence comfortably provides the requisite test margin.

The equipment under test is connected via safety connectors.

Three-phase power to the EUT can be switched on or off at the touch of a button.

A clearly arranged plug-board enables any symmetric or asymmetric coupling mode to be selected.

The nominal current rating specified for each phase can be considerably exceeded for a certain time. By taking the necessary measures it is hence possible to test equipment with up to twice the nominal rating.

The decoupling inductors are designed to tolerate the high inrush currents commonly encountered in 3-phase systems.

Considerable constructional attention has been paid to personal safety matters. Connectors carrying the pulse voltage are shielded by a protective cover. Interlock circuits

prevent accidental triggering of high voltage pulses and the mains supply is also automatically isolated from the EUT supply outlet when the safety circuit is open.

The unit is built into a desk-top housing. Appropriate mounting accessories are available for installation in a 19" rack or for integration into the SCHAFFNER ProfLine System.

Certified ISO 9001 supplier

Technical specifications

Instrument supply from generator NSG 650/651 Coupling modes DM L1 ⇒ L2 L1 ⇒ L3 L2 ⇒ L3 **EUT** supply 3-phase, single phase L1 ⇒ N 24 ... 440 V rms, 50/60 Hz L2 ⇒ N **EUT voltage** (Phase - Phase) L3 ⇒ N **EUT** current 3 x 16 A rms continuous CM L1 ⇒ E L2 ⇒ E 3 x 25 A rms for 90 min. L3 ⇒ E Decoupling attenuation: N ⇒ E

Remanent pulse, mains-side

10 % max.

Operating elements

EUT supply on/off

Crosstalk attenuation

Standard-conform

pulse coupling

15 % max.

Connections

Pulse input from generator

Cable connector for EUT

supply

Plug-board for coupling

mode

Safety connectors to the EUT

Coupling capacitances

18 μ F or 9 μ F (depending on

1.2/50 µs up to 6 kV

8/20 μs up to 3 kA

(depending on Dimensions (WxHxD) coupling mode)

449 x 310 x 500 mm

(17.7 x 12.2 x 19.7")

Mains decoupling

2.0 mH / 9 μF

Weight

36 kg (80 lbs) approx.

Ordering information

CDN 113 3 Phase coupling network

incl. jumpers for coupling mode selection and safety plugs for EUT connection

Accessories

INA 161

Mounting materials for 19" rack

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