Advanced Test Equipment Rentals

www.atecorp.com 800-404-ATEC (2832)

I IIISCHAFFNER

CDN 131 / 133 / 135

Pulse Coupling Networks

- Units for single phase and three phase coupling
- Extended current / voltage range to 30A / 440Vac
- Combined surge / burst coupling

Established 1981

These external coupling networks extend the range of surge and burst generators to higher currents and voltages, three phase applications and system installations with a common EUT connection.

The basic models, CDN 131 for single phase and CDN 133 for three phase applications, precisely match the type 2050 test system with its range of surge generator modules.

A burst coupling option, CDN 151 for single phase or CDN 153 for three phase applications, can be fitted into the unit to provide higher current burst test possibilities for the System 2050. These options also build a system solution with a single, common EUT connection when separate surge and burst generators are used.

The specifications of the EUT path are pushed to 30A per phase and a AC voltage of up to 440V (phase to phase). The decoupling inductors are designed to tolerate the high inrush currents often encountered in high power and three phase test installations. The couplers are entirely controlled by the pulse generator and perform their coupling modes under local control or under control of the Windows application program associated with the pulse generator.

Power to the EUT is internally controlled and can be switched on and off at any time by the operator or may be set under program control. The units fully comply with the relevant standards such as IEC 61000-4-5, ANSI-IEEE C 62.45, IEC 61000-4-4, etc. The coupling methods exceed the requirement of the standards and effectively allow for all possible combinations of differential couplings, common mode and line(s) to ground coupling combinations. Special attention has been paid to an overall safe operation. An interlock circuit prevents high voltage pulses being generated as long as the

protection line is not closed. An overcurrent trip switch protects the EUT. Various connector panels are provided to ensure correct industrial wiring of the EUT.

CDN 131

Single phase coupling network for surge type pulses with 240V/30A ac capability. An optional CDN 151 single phase burst coupling section can be built in.



CDN 133

Three phase surge coupling network for EUT's up to 440V/30A per phase. The CDN 153 three phase burst coupling option extends the unit into a combined coupler with a single, common EUT interface.

CDN 135

Special version to be used with the BESTplus and BESTemc generator. It includes three phase surge and burst coupling capabilities as a standard.

Optional EUT connector panels

INA 250 IEC 309 Adapter 3 x 32A (red) INA 251 IEC 309 Adapter 1 x 16A (blue) INA 252 Schuko Adapter 1 x 16A INA 253 Swiss Adapter 1 x 10A INA 254 France Adapter 1 x 16A INA 255 GB Adapter 1 x 13A INA 256 US/J Adapter 1 x 15A 115V

Technical Specifications

Instrument supply

EUT supply AC voltage DC voltage Current

Coupling / decoupling elements **Coupling modes**

Burst coupling option AC voltage DC voltage Current

Coupling / decoupling elements Coupling modes

115V / 230V ac nominal single phase 24 - 240V 1 - 50V 25A continuous 30A for 30 mins to IEC 61000-4-5 differential / common mode / line to GND optional 24 - 240V 1 - 50V 25A continuous 30A for 30 mins to IEC 61000-4-4 lines to ref. GND all combinations of lines to ref. GND

CDN 131

CDN 133

115V / 230V ac nominal three phase 24 - 440V (phase to phase) 1 - 50V 25A continuous 30A for 30 mins to IEC 61000-4-5 all differential / all common mode / lines to GND optional 24 - 440V (phase to phase) 1 - 50V 25A continuous 30A for 30 mins to IEC 61000-4-4 lines to ref. GND

all combinations of lines to ref. GND

CDN 135

(special unit for BESTplus / BESTemc) 115V / 230V ac nominal three phase 24 - 440V (phase to phase) 1 - 50V 25A continuous 30A for 30 mins to IEC 61000-4-5 all differential / all common mode / lines to GND standard 24 - 440V (phase to phase) 1 - 50V 25A continuous 30A for 30 mins to IEC 61000-4-4 lines to ref. GND all lines to ref. GND