CDN 3083-B100
EFT / BURST COUPLING / DECOUPLING NETWORK

- **Meets IEC 61000-4-4 Ed.3.0**
- **100 A (AC or DC)**
- **690 VAC, 1000 VDC**
- **Up to 8.8 kV burst pulses**
- **Economical and flexible solution**
- **Portable size and light weight**
- **Temperature monitoring**
- **Large overstress capabilities**
- **Can be combined with various non-Teseq Burst generators**

The CDN 3083-B100 is a manual 100 A three-phase EFT/burst coupling decoupling network (CDN), designed for testing Equipment Under Test (EUTs) up to 690 VAC (L-L or L-PE) and up to 1000 VDC (L-L or L-PE), and used for coupling fast transients (burst pulses) up to 8.8 kV (5/50 ns – 50 Ω) into the supply lines of the EUT.

The CDN 3083-B100 is a high quality and affordable solution, ideal for industries and applications that require higher AC and DC voltages and currents, including power & telecom industry, renewable energy applications (smart grid, inverters, solar, energy monitoring devices), electric vehicle and charging stations.

The light weight (5 kg), small size (410 x 170 x 190 mm), and portable design of the CDN takes into consideration the requirements of the latest IEC 61000-4-4 edition 3 standard, including the various test setups, the need for minimum distance between coupling devices and EUTs, and the need to mount coupling decoupling sections directly to the reference ground plane.

Whether you are testing large or small table top equipment, floor standing or equipment with elevated cable entries, setting up and handling has never been so fast and easy. The light weight and portability of the CDN 3083-B100 enables you to quick and easily place the CDN at the right position and ensure that minimum distances between CDN and EUT as required by the standard are met.
The metal housing construction is such that users can simply place the CDN 3083-B100 directly on the ground reference plane as required by the standard, and guarantees an excellent HF earthing.

High inrush currents or pulse-shaped peak currents can be handled with ease.

In addition, a built-in thermometer enables the heating effect to be monitored. The high quality components used in the design of the CDN enable users to even test for short durations at much higher currents than specified. The current limitation is largely a matter of thermal loading and ambient temperature.

TESEQ

Advanced Test Solutions for EMC

CDN 3083-B100
EFT / BURST COUPLING / DECOUPLING NETWORK

INA 163

INA 3243

CAS 3025

INA 6546

Technical information:

Parameter	Value
EUT voltage	690 VAC RMS 1000 VDC
EUT current	100 A continuous Note: The maximum current allowed is given by the heat dissipated in the coupler. As the temperature is monitored, the CDN 3083-B100 can handle higher than specified currents until the temperature reaches 70° C
Burst voltage	Max. 8.8 kV
Terminals	Screw terminals, rated for 200 A
Temperature monitoring	Bimetal-thermometer 0 to +120° C
Grounding	Earth terminal The unit is connected to the ground plane via the housing base plate and brackets or 4 mm banana earth terminals
Size	410 x 170 x 190 mm
Weight	5 kg approx.
EFT / burst connector	SHV
Accessories (included)	
INA 3005	Isolated Allen key, for safe operation
INA 3008	Coaxial cable 90 cm terminated with SHV plugs
User manual	
Calibration certificate	
Options	
INA 163	Safety banana plug set (10 pcs) 6 to 4 mm
INA 3243	Measuring - calibration adapter
CAS 3025	Burst / EFT calibration teminator / attenuator set
INA 6546	Single SHV plug for custom made cables to connect with any EFT generator

Teseq AG
Nordstrasse 11F 4542 Luterbach Switzerland
T +41 32 681 40 40 F +41 32 681 40 48
sales@teseq.com **www.teseq.com**

691-310A June 2013

TESEQ
Advanced Test Solutions for EMC