



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 quickly 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.

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 terminator/attenuator set
INA 6546	Single SHV plug for custom made cables to connect with any EFT generator

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CDN 3083-B200 EFT/BURST COUPLING/DECOUPLING NETWORK



- **Compliant with IEC 61000-4-4**
- **Up to 200 A AC or DC**
- **Up to 690 VAC**
- **Up to 1000 VDC**
- **Large overstress capability**
- **Easy handling and integration in test setup**
- **Compatible with all brands of burst generators**

The CDN 3083-B200 is a 3-phase burst pulse coupling decoupling network intended to allow EFT/Burst testing of equipment requiring large currents, specially designed for heavy industry, smart grid and electro vehicle applications.

The CDN 3083-B200 serves to inject fast transients (burst pulses) up to 8 kV (5/50 ns – 50 Ω) into the supply lines of the Equipment Under Test.

The CDN 3083-B200 is designed to be used with an EUT supply in AC mode up to 690 V in line to line or line to ground. DC voltage can be taken up to 1000 V line to line or line to ground.

Although designed for continuous duty at up to 200 A per phase, the unit can be subjected to considerably higher currents for short durations.

High inrush currents or pulse-shaped peak currents can be handled with ease. The current limitation is largely a matter of thermal loading and ambient temperature. A built-in thermometer enables the heating effect to be monitored.

Its small and compact design allows easy handling and comfortable setup possibilities in standard compliant application setups, where distances between CDN and EUT are specified quite short, and where the use of combined CDNs generally built in 19" racks show difficulties in meeting the test setup requirements specified by the standards.

The type of construction, inside a metal housing for use directly on the ground reference plane, ensures excellent HF earthing. The EUT supply connections take the form of generously dimensioned screw terminals.

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INA 163



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Technical information:

Parameter	Value
EUT voltage:	690 V AC RMS 1000 VDC
EUT current:	≥200 A continuous The maximum permissible current is given by the heat dissipated in the coupler. As the temperature is monitored, the CDN 3043-S200 can be heavily overloaded until the temperature reaches 70° C
Burst voltage:	Max. 8800 V
Terminals:	Screw terminals, rated for 200 A
Temperature monitoring:	Bimetal-thermometer 0 to +120° C
Grounding:	Earth terminal 4 mm combined banana housing bottom direct to ground plane via housing bottom plate and brackets
Size:	430 x 310 x 190 mm
Weight:	11 kg approx.
EFT/burst connector:	SHV
Temperature range	
Operation:	+10 to +40°C
Storage:	30 to +70% (non condensing)
Air pressure:	860 to 1060 hPa
included accessories	
INA 3008	Isolated Allen key, for safe operation Coaxial cable 90 cm terminated with SHV plugs
User manual	
Calibration certificate	
Other accessories	
INA 163	Safety banana plug set (10 pcs) 6 to 4 mm
INA 3243	Measuring - calibration adapter
CAS 3025	Burst/EFT calibration terminator/attenuator set
INA 6546	Adapter plug for adaption to any EFT generator

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Advanced Test Solutions for EMC