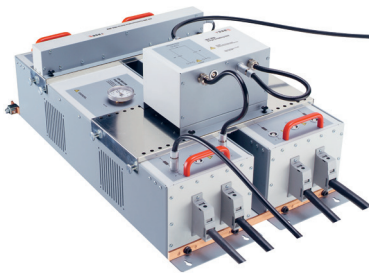




CDN 3083-S100 MANUAL SURGE COUPLING / DECOUPLING NETWORK



- For EUT power supplies up to 620 V
- 100 A per phase with generous overload capacity
- Complies with IEC/EN 61000-4-5 and ANSI C62.45
- Easily upgradeable from IEC/EN to ANSI coupling

The **CDN 3083-S100 manual coupling/decoupling network** fulfills the requirements specified in the surge standard IEC/EN 61000-4-5: 2014.

Designed for convenient use in a wide variety of test environments, the CDN 3083-S100 can be placed on the floor or table-top, or may be mounted on a wall in an EMC laboratory or development workshop. Since high current couplers must often be taken to remote test sites, the CDN 3083-S100 can be easily disassembled into handy modules for moving. The unit is fitted with wheels and brakes for use on ramps or uneven surfaces.

Currents over 100 A per phase are allowed for short test periods. The CDN 3083-S100 is designed to withstand frequently encountered inrush currents and, in extreme cases, can be overstressed until the internal environment has reached the maximum temperature.

Rugged connection terminals, as well as a solid housing are featured to ensure safe, reliable operation. The CDN 3083-S100 is tested for safety in compliance with IEC 61010.

Surge levels up to 8 kV/4 kA with 1.2/50 μ s combination wave can be coupled by the CDN 3083-S100.

EUT supply voltages of up to 620 V rms or 620 VDC at 100 A are supported. The CDN 3083-S100 is designed for simple and safe manual operation.

All symmetrical and asymmetrical coupling modes of IEC/EN 61000-4-5 and ANSI C62.41 are supported by the CDN 3083-S100.

CDN 3083-S100 MANUAL SURGE COUPLING / DECOUPLING NETWORK



INA 163



MD 200A



MD 300

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 are designed and manufactured under the strict
 quality and environmental requirements of the ISO
 9001. This document has been carefully checked.
 However, Teseq® does not assume any liability for
 errors or inaccuracies.

691-157B July 2014

Technical information:

| Parameter | Value |
|--|--|
| EUT voltage | 620 VAC RMS L-to-L (max. 440 V for NSG 3040 and Modula) 620 VAC RMS L-to-PE (max. 440 V for NSG 3040 and Modula) 620 VDC |
| EUT current | 100 A continuous The maximum permissible current is given by the heat dissipated in the coupler. As the temperature is monitored, the CDN 3083-S100 can be heavily overloaded until the temperature reaches 70° C |
| Pulse voltages / current | Max. 8 kV / 4 kA |
| Terminals | Screw terminals, rated for 230 A |
| Grounding | Earth terminal |
| Size | 850 x 520 x 345 mm |
| Weight | 80 kg approx. |
| Surge connector | Fischer 105 series |
| Environmental conditions | |
| Operation | +10 to +40°C |
| Storage | 30 to 70% RH (non condensing) |
| Air pressure | 860 to 1060 hPa |
| Set includes | |
| 1 x Surge decoupling network CDN 3083-S100 N – L1 | |
| 1 x Surge decoupling network CDN 3083-S100 L2 – L3 | |
| 2 x Earth rail | |
| 1 x Allen key isolated | |
| 1 x User manual CDN 3083-S100 | |
| 1 x Test certificate | |
| 1 x Wheel set | |
| 2 x Connection tables, laminated | |
| To order separately | |
| IEC coupling set | 1 x INA 3080 Surge coupling unit |
| ANSI / Ext. IEC coupling set | 2 x INA 3080 Surge coupling unit 1 x Connection cable |
| INA 3084 | Phase synchronization unit for NSG 3040, CDN 3061 or Modula; including two cables (1 m, Fischer / Fischer connectors) |
| Other accessories | |
| INA 163 | Safety banana plug set (10 pcs) 6 to 4 mm |
| MD 200A | High voltage differential probe |
| MD 300 | Current probe |