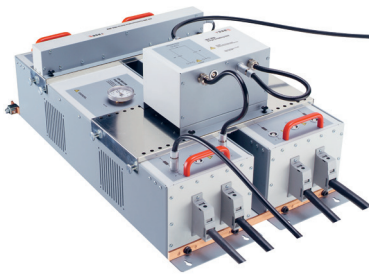




CDN 3083-S100 MANUAL SURGE COUPLING / DECOUPLING NETWORK



- 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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AMETEK®
COMPLIANCE TEST SOLUTIONS

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

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T E S E Q
Advanced Test Solutions for EMC