

# 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  $\mu$ 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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#### **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 continous 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	+10 to +40°C
Operation	
Storage	30 to 70% RH (non condensing) 860 to 1060 hPa
Air pressure	800 to 1000 fira
Set includes	
1 x Surge decoupling network CE	DN 3083-S100 N = L1
1 x Surge decoupling network CE	
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 seperately	
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
IVID 300	Current probe



