



CDN 3043 3-PHASE COUPLING / DECOUPLING NETWORK SERIES



- Compliant with IEC 61000-4-4 & -5
- Universal terminals- no special plugs required
- Safety HV plugs and terminals
- Manual/programmable EUT power ON/OFF control
- Short term overstress capability
- Phase rotation detection
- Overload protection
- Low noise through thermo regulated fans

The CDN 3043 series are 3 phase coupling/decoupling networks designed to offer best price performance for use as extension to NSG 3040 multifunction generator series.

Various models are available in order to cover anyone's need for best budget. However, all models feature high level of user comfort and common safety functions

Dedicated EUT terminals allow direct and easy EUT connection, no specific adapter plugs are required. A safety isolated terminal key is part of the delivery.

EUT power ON and OFF can be controlled manually from the NSG 3040 front panel, as well as automatically from WIN 3000 software. EUT power will also switch OFF automatically in case of overload.

High value shielded High Voltage safety plugs are used to interconnect the high voltage pulse output from NSG 3040 multifunction generator to CDN input.

The CDN 3043 series perform dynamic cooling. Internal elements which warm up under load are equipped with thermal sensors. At standby or for lower EUT currents, when there is no need for cooling, the fans will turn at a very low speed, generating no noise. In case of intentional or unintentional overloading, there will be a point where even full speed cooling will no more be sufficient, at this moment the CDN 3043 will switch OFF EUT power through the built in EUT power contactor, and so avoid destruction of the instrument (risk of fire). The CDN 3040 control electronics will also send a message back to the NSG 3040 which will immediately stop the firing of pulses.

That way CDN 3043 series give large overload capabilities, allowing up to 1,5 nominal current loading for 10 to 20 minutes, as well as high inrush currents or peak loads.

The phase rotation detector visible at the back of the CDN units shows clearly if a phase is connected and if the rotation of L1, L2 and L3 are correctly set. This important feature guaranties a correct coupling especially in synchronous mode.

CDN 3043 is available in 3 different 32 A versions.



CDN 3043 with NSG 3040

CDN 3043 3-PHASE COUPLING / DECOUPLING NETWORK SERIES



INA 3235



INA 3239



CAS 3025



MD 200A



INA 3000

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

© May 2015 Teseq®
Specifications subject to change without notice.
Teseq® is an ISO-registered company. Its products 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.

691-287B May 2015

Technical information

Parameter	Value
EUT VAC line to line:	Up to 480 VAC rms, 50/60 Hz (below 30 V synchronisation not guaranteed, asynchronous mode only)
EUT VAC line to neutral/ground:	Up to 280 VAC rms, 50/60 Hz (below 30 V synchronisation not guaranteed, asynchronous mode only)
EUT VDC max:	225 VDC
DC current range:	Up to 125 VDC – full current range / Up to 225 VDC – max. 7 A
AC current range:	32 A continuous / 45 A for ca. 30 min.
Burst voltage:	Up to 4800 V
Surge voltage:	Up to 4400 V
Terminals:	Screw terminals, rated for 32 A
Instrument supply:	85 to 265 VAC, 50/60 Hz
Size:	449 x 310 x 565 mm
Weight:	40 kg approx.

Models

CDN 3043-B32:	For EFT/Burst only
CDN 3043-S32:	For combined wave surge (CWS) only
CDN 3043-C32:	Combined EFT and CWS

Included accessories

INA 3003	System Interface cable 0.5 m
INA 3004	Isolated Allan key, for safer operation
INA 3007	40 cm SHV coax cable (only with -B and -C versions)
INA 3008	2 x 40 cm RG213 coax cable (only with -S and -C versions)
WIN 3000 CD	
Grounding set	
User manual	
Calibration certificate	

Optional accessories

INA 3235	Safety banana plug set
INA 3239	Measuring - calibration adapter for EFT
CAS 3025	Burst/EFT calibration terminator/attenuator set
MD 200A	Differential HV probe 7 kV
MD 300	Current probe 5 kA
INA 3000	Trolley