



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



CDN 3043 with NSG 3040

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 guarantees a correct coupling especially in synchronous mode.

CDN 3043 is available in 6 different models, from single function 16 A up to combined version 32 A.

Higher current ratings are covered by the CDN 3063 series.



CDN 3043 3-PHASE COUPLING/DECOUPLING NETWORK SERIES



INA 3235



INA 3239



CAS 3025



MD 200A



INA 3000

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Technical information

Parameter	Value	
CDN 3043-Bxx:	For EFT/Burst	
CDN 3043-Sxx:	For combined wave surge (CWS)	
CDN 3043-Cxx:	Combined EFT and CWS	
EUT voltage:	30 to 480 V AC RMS, 0 to 65 Hz 0 to 125 V DC - full current range 0 to 225 V DC - up to 7 A	
EUT current:	16 A continuous 25 A for ca. 30 mn 32 A continuous 45 A for ca. 30 mn	CDN 3043-x16 series CDN 3043-x32 series
Burst voltage:	Up to 4800 V	
Surge voltage:	Up to 4400 V	
Terminals:	Screw terminals, rated for 32 A	
Size:	449 x 310 x 565 mm	
Weight:	40 kg approx.	
Included accessories		
INA 3003	System Interface cable 0.5 m	
INA 3004	Isolated Allan key, for safer operation	
40 cm SHV coax cable	Only with -B and -C versions	
2 x 40 cm RG213 coax cable	Only with -S and -C versions	
WIN 3000 CD		
Grounding set		
User manual		
Calibration certificate		
Other 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	
INA 3000	Trolley	