



CDN 3061 AUTOMATED 1-PHASE COUPLING / DECOUPLING NETWORK



- Single-phase model with exceeding current range
- Fully automated Surge and Burst coupling
- IEC and ANSI coupling
- High accuracy switching technology
- Modular and upgradeable to fit new generator architecture

The new, modular CDN 3061 is an easily upgradeable test instruments that maximize the user's initial investment. Users can select a CDN configuration that fulfills their basic testing needs with the assurance that they can upgrade it to a version to fit different generator compatibility as their testing requirements change. The CDN 3061 is designed for maximum reliability in a wide range of test setups. Over temperature protection, which allows short term operation at currents exceeding the nominal rating, prevents damage to internal components.

The automated single-phase coupling network incorporates surge and burst coupling for continuous EUT currents of up to 16 A and complies to the requirements for the surge standard IEC/EN 61000-4-5, as well the coupling modes given in the ANSI C62.45 standard and for burst standard IEC/EN 61000-4-4. This network features a module for the power quality test required by IEC/EN 61000-4-11 and IEC/EN 61000-4-29. Automated variac accessories are available for connection to the CDN to perform the variation test described in IEC/EN 61000-4-11. Voltage variation test parameters are set via the generator's user interface.

The CDN 3061 utilizes the latest electronic component technology which guaranties remarkable phase coupling accuracy which exceeds the existing standard's requirements, and represents a significant step forward in higher test results reproducibility.

CDN 3061

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Technical information

Parameter	Value
EUT supply: 1-phase (P/N/PE)	EUT VAC 30 to 270 VAC rms, line to neutral, 50/60 Hz (below 30 V synchronization not guaranteed, asynchronous mode only) EUT VDC 0 to 270 VDC DC - 65 Hz with no EUT loss, 400 Hz max. with EUT power loss
EUT current:	1 x 16 A rms continuous (over temperature protection) 1 x 25 A rms for approx. 10 min (over temperature protection)
Burst voltage:	Up to 4800 V
Surge voltage:	Up to 6600 V
Connections: Front panel	HV-surge pulse input from generator (Fischer connector) EFT connector from generator (SHV connector) Ground/PE connection
Rear panel	Cable connector for EUT supply input and output
Instrument supply:	85 to 265 VAC, 50/60 Hz
Decoupling attenuation:	Residual pulse voltage on EUT power supply inputs 15% max. Residual voltage on non-pulsed power supply inputs 15% max.
Surge decoupling inductance:	1.5 mH
Size:	W: 449 mm (17.7"), H: 221.5 mm (8.75", 5 HU), D: 565 mm (22.2")
Weight:	20 kg (44 lb) approx.

Models

CDN 3061-C16:	Combined EFT and CWS
CDN 3061-C16-PQM:	Combined EFT, CWS and Dips, Interrupts and Variations
CDN 3061-S16:	For combined wave surge (CWS) only

Included accessories

INA 3003	System Interface cable 0.5 m
INA 3007	40 cm SHV coax cable (only with C versions)
INA 3008	2 x 40 cm RG213 coax cable
WIN 3000 CD	
Grounding set	
User manual	On CD
Calibration certificate	

Optional accessories

INA 3238	Measuring - calibration adapter for EFT
INA 166	5 U brackets for rack mounting
CAS 3025	Burst/EFT calibration terminator/attenuator set
MD 200A	Differential HV probe 7 kV
MD 300	Current probe 5 kA
WIN 3000-SRD:	Professional version of PC software featuring real time reporting, sequencing and dialogs

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

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