



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 61000-4-5:2005, as well the coupling modes given in the ANSI C62.45 standard and for burst standard IEC/EN 61000-4-4:2005. 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.

Coupling network specifications Dimensions/weight

Parameter	Value
Dimensions CDN 3061-C16:	W: 449 mm (17.7"), H: 221.5 mm (8.75", 5 HU), D: 565 mm (22.2")
Weight CDN 3061-C16:	20 kg (44 lb) approx.

Electrical parameter

Parameter	Value
Instrument supply:	85 – 265 V _{AC}
Decoupling attenuation:	Residual pulse voltage on EUT power supply inputs 15% max. Residual voltage on non-pulsed power supply inputs 15% max.
Standard-compliant pulses	Electric fast transient EFT (burst) Combination wave Power quality test (CDN 3061 only)
Surge decoupling inductance:	1.5 mH
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
EUT supply: 1-phase (P/N/PE)	EUT V _{AC} 30 to 270 V _{AC} rms, line to neutral, 50/60 Hz (below 30 V synchronization not guaranteed, asynchronous mode only) EUT V _{DC} 0 to 270 V _{DC} 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 30 min (over temperature protection)

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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