



CDN 163 EFT/BURST COUPLING NETWORK



- **3-phase coupling network**
- **For AC and DC up to 100 A per channel**
- **Short-term overstress capability**
- **Easy handling**
- **Secure and durable construction**
- **Compatible with all types and brands of EFT/burst generators**

High frequency pulse signals can result in cross-talk between conductors running in parallel even over short distances. This behavior is taken into account in the latest and currently valid edition of the EFT/burst standard IEC/EN 61000-4-4 (2004). Only the single coupling mode of „all conductors together against reference ground“ is called for in interference immunity measurements with fast transients.

This simplifies the construction and utilization of coupling networks considerably, complicated coupling switches can be omitted.

The CDN 163 is a 3-phase EFT/burst pulse coupling network for large EUT currents. Although designed for continuous duty at up to 100 A per phase, the unit can be subjected to considerably higher currents for short durations. For 1-phase or DC applications it's possible to connect the input channels parallel, thus to increase the EUT current. As a result, high inrush currents or pulse-shaped peak currents can be handled with ease. The current limitation is largely down to a matter of thermal loading. A built-in thermometer enables the heating effect to be monitored. The type of construction, using a metal housing for use directly on the ground reference plane, ensures excellent HF earthing. The power and EUT connections take the form of generously dimensioned screw terminals.

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Technical specifications

EUT (supply) voltage:	690 VAC, line-to-line and line-to-ground 1000 VDC, line-to-line and line-to-ground
EUT current (AC or DC):	≥100 A continuous 150 A for approx. 30 min
EFT/burst pulse peak voltage:	Up to 8000 V
Leakage current to ground:	7.1 mA max. (short duration – during power up)
Terminals:	Screw terminals, 50 mm ² rated for 150 A
Temperature monitoring:	Bimetal-thermometer -0 to +120°C
Grounding:	4 mm combined banana and screw terminal (safety grounding). Via housing bottom plate and brackets (FH ground to test setup ground plate).
Dimensions L x W x H:	380 x 150 x 150 mm (15 x 5.9 x 5.9")
Weight:	4.2 kg (9.3 lbs) approx.
EFT/burst coupling network options:	INA 163: safety banana plug set 6 to 4 mm (10 pcs) INA 164: Measuring adapter incl. 5 pcs safety banana plugs CAS 3025: Burst calibration set