

Coupling-/Decoupling Network CDN 10416 (6416)

3* 400 V / 16 A
max. test voltage 10 kV, 1.2/50 μ s
max. test current 5 kA, 8/20 μ s
+ Burst 4.5 kV, 5/50 ns

The capacitive Coupling-/Decoupling Network CDN 10416 is used in combination with the Surge generators PG 6-204, PG 10-504 or CE-TESTER and allows superimposition of surge and burst test pulses to the 3-phase mains voltage of the device under test.



The test set-up is suitable for immunity testing of electronic systems and devices according to IEC/EN 61000-4-4, IEC/EN 61000-4-5 and IEEE 587.

The CDN 10416 contains the coupling impedances 18 μ F and 9 μ F + 10 Ω for the surge generator and 33 nF for the burst generator and the decoupling impedances for the 3-phase power supply lines. As an option the Ring-Wave generator IPG 612c or IPG 512c can be connected to the CDN 10416 instead of the surge generator.

Coupling mode can be selected from the front panel of the generator connected. Control commands are transmitted from the generator to the Coupling-/Decoupling Network by use of an optical link.

The coupling impedance and the coupling path selected are indicated on the front panel of the coupling-/decoupling network.

Technical specification:

CDN 10416 / CDN 6416

Nominal voltage,	3*400V/50-60 Hz
Nominal current, AC/DC	16A \approx /12A=
Series inductors to the mains power supply	4 * 2.5 mH +160 μ H/16 A
max. test voltage for the surge generator, waveform 1.2/50 μ s	10 kV / 6 kV
max. test voltage for the burst generator, waveform 5/50 ns	4.5 kV
Coupling mode, selectable, for the surge generator	line to line via 18 μ F or line to ground via 9 μ F+10 Ω
Coupling mode, selectable, for the burst generator	line to ground via 33 nF
Mains power	230 V, 50/60 Hz
Dimensions: desk top case W * H * D	471*156*520 mm ³
Weight	30 kg

Technical specification subject to change

CDN 104e6.DOC 5/98