

Coupling-/Decoupling Network CDN 4416/32

3 * 400 V 16 A / 32 A
Surge: 4.5 kV, 1.2/50µs
2.25 kA, 8/20 µs
Burst 4.5 kV, 5/50 ns

The capacitive Coupling-/Decoupling Networks CDN 4416/4432 are used in combination with the CE-TESTER and allow 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 surge immunity testing of electronic systems and devices according to IEC 61000-4-4, EN 61000-4-4, IEC 61000-4-5, EN 61000-4-5 and IEEE 587.

The CDN 4416 contains the coupling impedances 18 µF and 9 µF + 10 Ω for the surge generator and 33 nF for the burst generator and the decoupling impedances for the 3-phase power supply lines.

Coupling mode can be selected from the front panel of the CE-TESTER. Remote control commands are transmitted from the CE-TESTER to the Coupling-/Decoupling Network by use of an optical link.

Technical specification:

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Nominal voltage,			3*400 V
Nominal current	ac/dc		16A~/10A= 32A~/20A=
Max. test voltage			4.5 kV, 1.2/50 µs 4.5 kV, 5/50 ns
Coupling impedance for the surge generator			18 µF / 9 µF+10 Ω
Coupling impedance for the burst generator			33 nF
Coupling mode, selectable, for the surge generator			line to line via 18 µF or line to ground via 9 µF+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			35 kg 48 kg

Technical specification subject to change

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