

Coupling-/Decoupling Network

CDN 54100 / 74100 / 104100 / 124100

Main	3* 400 V / 100 A
Surge	1.2/50 μs: 5.0 / 7.0 / 10 / 12kV
	8/20 μs: 2.5 / 3.0 / 5.0 / 6.0kA
Burst	5.0 kV, 5/50 ns



According to

IEC 61000-4-4

IEC 61000-4-5

IEEE 587

The capacitive Coupling-/Decoupling Networks CDN 54100/ 74100/ 104100/ 124100 are used in combination with the Multi-CE5 or the Surge generators PG 7-250, PG 10-504, PG 12-804 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.

The CDN 54100/ 74100/ 104100/ 124100 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.

Coupling mode can be selected from the front panel of the generator. Remote control commands are transmitted from the generator to the Coupling-/Decoupling Network.

Technical specification:	CDN 54100	CDN 74100	CDN 104100	CDN 124100
Nominal voltage	3 * 400 V, 50/60 Hz			
Nominal current AC/DC	100 A _~ / 100 A ₌			
Series inductors to the mains power supply	<1.5 mH + >100 µH			
max. test voltage Surge, 1.2/50 µs:	5.0 kV	7.0 kV	10 kV	12 kV
max. test voltage Burst, 5/50 ns:	5.0 kV			
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 9 µF + 10 Ω			
Coupling mode, selectable, for the burst generator	line to ground via 33 nF			
Impulse synchronisation	Mains, Extern			
Burst Input	Fischer			
Surge Input	4 mm Bush			
Mains power	90V - 264V , 50/60 Hz			
Dimensions: rack case W * H * D	550 * 1000 * 800 mm ³			
Weight	250 kg		200 kg	
Option:				
Nominal voltage	3 * 690 V 50/60 Hz / 1000 V DC			