

# Coupling-/Decoupling Network

## CDN 4463 / 6463 / 10463 / 12463

**3\* 400 V / 63 A**

**Surge: 5 / 7 / 10 / 12kV, 1.2/50  $\mu$ s  
2.5 / 3.5 / 5.0 kA, 8/20  $\mu$ s**

**Burst: 5.0 kV, 5/50 ns**

The capacitive Coupling-/Decoupling Networks CDN 4463/6463/10463/12463 are used in combination with the CE-Tester or the Surge generators PG7-250, PG10-504, PG12-804 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 immunity testing of electronic systems and devices according to IEC 61000-4-4, IEC 61000-4-5 and IEEE 587.

The CDN 4463/6463/10463 contains the coupling impedances 18  $\mu$ F and 9  $\mu$ F + 10  $\Omega$  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 a Ring-Wave generator can be connected to the CDN 4463/6463/10463/12463 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.

| <b>Technical specification:</b>                    | <b>CDN 4463 / 6463 / 10463 / 12463</b>    |
|--|---|
| Nominal voltage,                                   | 3 * 400 V, 50/60 Hz                       |
| Nominal current, AC/DC                             | <b>63A</b> ≈/40A=                         |
| Series inductors to the mains power supply         | 4 * 1.5 mH +160 $\mu$ H/64 A              |
| max. test voltage Surge, 1.2/50 $\mu$ s:           | <b>5.0 KV / 7.0 kV / 10.0 kV / 12.0kV</b> |
| max. test voltage Burst, 5/50 ns:                  | 5.0 kV, 5/50 ns                           |
| Coupling mode, selectable, for the surge generator | line to line via 18 $\mu$ F oder          |
|  | line to ground via 9 $\mu$ F+10 $\Omega$  |
| 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                | 558*450*600 mm <sup>3</sup>               |
| Weight   | 85 kg                                     |
| <b>Option:</b>                                     |   |
| Nominal voltage                                    | 3 * 690 V, 50/60 Hz                       |
| CDN 12263  | CDN for single phase L1,N,PE              |

