

CNV 501/503X - SERIES

SURGE COUPLING/DECOUPLING NETWORKS



FOR TESTS ACCORDING TO ...

- > ANSI/IEEE C62.41
- > EN 61000-4-5
- > EN 61000-6-1
- > EN 61000-6-2
- > EN 61543
- > IEC 60060
- > IEC 60601-1-2
- > IEC 61000-4-5
- > IEC 61008-1
- > IEC 61009-1
- > IEC 61326
- > IEC 61850-3
- > ITU-T K.20
- > ITU-T K.21
- > ITU-T K.45

COUPLING/DECOUPLING NETWORKS FOR SURGE

The coupling/decoupling networks of the CNV 501/503x series, are used to couple Surge pulses onto single phase or three-phase (4-wire or 5-wire supply lines) mains supply systems for voltages up to 690 V. Within the range of EM TEST coupling/decoupling networks we offer different models for voltages up to 5 kV, 7 kV, 8 kV, 10 kV and 12 kV with DUT currents of 16 A, 32 A, 63 A and 100 A (higher current ratings on request) for the various test requirements and equipment configuration.

HIGHLIGHTS

- > **Surge coupling/decoupling network as per EN/IEC 61000-4-5 and ANSI/IEEE C62.41**
- > **Fully automatic setting of coupling modes by the corresponding test generator up to 12kV**
- > **Automatic selection of the required source impedance**
- > **LEDs indicating active coupling**

APPLICATION AREAS

-  INDUSTRY
-  MEDICAL
-  BROADCAST
-  TELECOM
-  RESIDENTIAL

TECHNICAL DETAILS

**SINGLE PHASE SURGE
COUPLING/DECOUPLING NETWORKS
FOR MAINS SUPPLY LINES**
CNV 501, SINGLE PHASE, 5 KV

Single phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 5 kV
EUT supply	250 V, 100 A AC 30 V, 100 A DC
Dimensions	Size: 19" / 6 HU Weight: approx. 55 kg

CNV 501S4, SINGLE PHASE, 10 KV

Single phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 10 kV
EUT supply	250 V, 16 A AC 30 V, 16 A DC
Dimensions	Size: 19" / 6 HU Weight: approx. 26 kg

CNV 501S4.1, SINGLE PHASE, 10 KV

Single phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 and ANSI/IEEE C62.41 Surge voltage up to 10 kV
EUT supply	250 V, 16 A AC 30 V, 16 A DC
Dimensions	Size: 19" / 6 HU Weight: approx. 27 kg

CNV 501S6, SINGLE PHASE, 12 KV

Single phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 12 kV
EUT supply	250 V, 16 A AC 30 V, 16 A DC
Dimensions	Size: 19" / 6 HU Weight: approx. 32 kg

CNV 501S7, SINGLE PHASE, 12 KV

Single phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 12 kV
EUT supply	250 V, 32 A AC 30 V, 16 A DC
Dimensions	Size: 19" / 6 HU Weight: approx. 35 kg

**THREE-PHASE SURGE
COUPLING/DECOUPLING NETWORKS
FOR MAINS SUPPLY LINES**
CNV 503S1, THREE PHASE, 5 KV

Three phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 5 kV
EUT supply	3x480 V, 32 A AC
Dimensions	Size: 19" / 6 HU Weight: approx. 35 kg

CNV 503S2, THREE PHASE, 5 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 5 kV
EUT supply	3x480 V, 63 A AC
Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg

CNV 503S3, THREE PHASE, 5 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 5 kV
EUT supply	3x480 V, 100 A AC
Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg

TECHNICAL DETAILS

THREE-PHASE SURGE COUPLING/DECOUPLING NETWORKS FOR MAINS SUPPLY LINES

CNV 503B5, THREE PHASE, 7 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 and ANSI/IEEE C62.41 Surge voltage up to 7kV
EUT supply	3x480 V, 16 A AC
Dimensions	Size: 19" / 6 HU Weight: approx. 25 kg

CNV 503B7, THREE PHASE, 7 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 and ANSI/IEEE C62.41 Surge voltage up to 7 kV
EUT supply	3x480 V, 32 A AC
Dimensions	Size: 19" / 6 HU Weight: approx. 35 kg

CNV 503B8, THREE PHASE, 7 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 and ANSI/IEEE C62.41 Surge up to 7 kV
EUT supply	3x480 V, 63 A AC
Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg

CNV 503B9, THREE PHASE, 7 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 and ANSI/IEEE C62.41 Surge voltage up to 7 kV
EUT supply	3x480 V, 100 A AC
Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg

THREE-PHASE SURGE COUPLING/DECOUPLING NETWORKS FOR MAINS SUPPLY LINES

CNV 503S5, THREE PHASE, 8 KV

Three-phase CDN	acc. EN/IEC 61000-4-5 Ed.3 Surge voltage up to 8 kV
EUT supply	3x480 V, 32 A AC
Dimensions	Size: 19" / 6 HU Weight: approx. 40 kg

CNV 503S6, THREE PHASE, 8 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 8 kV
EUT supply	3x480 V, 63 A AC
Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg

CNV 503S7, THREE PHASE, 8 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 8 kV
EUT supply	3x480 V, 100 A AC
Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg

TECHNICAL DETAILS

THREE-PHASE SURGE COUPLING/DECOUPLING NETWORKS FOR MAINS SUPPLY LINES

CNV 503S9, THREE PHASE, 10 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 10 kV
EUT supply	3x480 V, 16 A AC
Dimensions	Size: 19" / 6 HU Weight: approx. 30 kg

CNV 503S10, THREE PHASE, 10 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 10 kV
EUT supply	3x480 V, 32 A AC
Dimensions	Size: 19" / 6 HU Weight: approx. 40 kg

CNV 503N10.1, THREE PHASE, 10 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 and ANSI/IEEE C62.41 Surge voltage up to 10 kV; in combination with VCS 500N10.3
EUT supply	3x480 V, 32 A AC
Dimensions	Size: 19" / 6 HU Weight: approx. 42 kg

CNV 503S10.2, THREE PHASE, 10 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 10 kV; in combination with VCS 500N10 and VCS 500N10T
EUT supply	3 x 480 V AC(p-p), 32 A; 270 V DC (L-N), 32 A
Dimensions	Size: 19" / 6 HU Weight: 38.5 kg

THREE-PHASE SURGE COUPLING/DECOUPLING NETWORKS FOR MAINS SUPPLY LINES

CNV 503S10.3, THREE PHASE, 10 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 10 kV; in combination with VCS 500N10
EUT supply	3 x 480 V AC(p-p), 32 A; 270 V DC (L-N), 32 A; Without TEST ON function
Dimensions	Size: 19" / 6 HU Weight: 38.5 kg

CNV 503S11, THREE PHASE, 10 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 10 kV
EUT supply	3x480 V, 63 A AC
Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg

CNV 503S12, THREE PHASE, 10 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 10 kV
EUT supply	3x480 V, 100 A AC
Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg

TECHNICAL DETAILS

THREE-PHASE SURGE COUPLING/DECOUPLING NETWORKS FOR MAINS SUPPLY LINES

CNV 503S14, THREE PHASE, 12 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 and ANSI/IEEE C62.41 Surge voltage up to 12 kV
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EUT supply	3x480 V, 16 A AC
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Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg
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CNV 503S15, THREE PHASE, 12 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 and ANSI/IEEE C62.41 Surge voltage up to 12 kV
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EUT supply	3x480 V, 32 A AC
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Dimensions	Size: 19" / height depending on the size of the rack Weight: approx. 100 kg
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CNV 503S21, THREE PHASE, 12 KV

Three-phase CDN	acc. to EN/IEC 61000-4-5 Ed.3 Surge voltage up to 12 kV
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EUT supply	3x690 V, 32 A AC
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Dimensions	Size: 19" / 6HU Weight: approx. 45 kg
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GENERAL DATA

COUPLING MODES

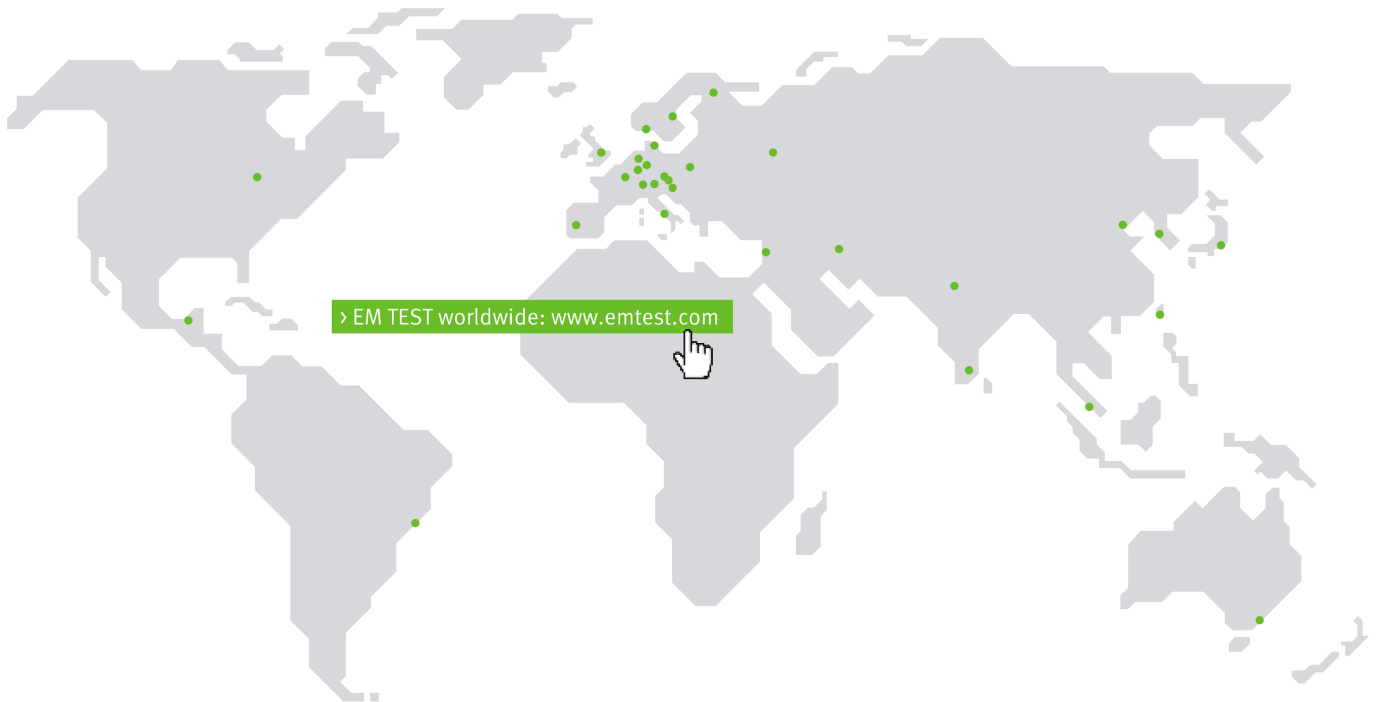
IEC 61000-4-5	Line to Line with a 2ohm source impedance Line(s) to PE with a 12ohm source impedance
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ANSI/IEEE C62.41	Line to line with a 2ohm source impedance line(s) to PE with 2ohm source impedance (only for models that support this capability)
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OTHER MODELS

Other models available on request for mains supply voltages up to 1,000V and current exceeding 100A

COMPETENCE WHEREVER YOU ARE



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Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.