

PCD 8-DC B-1-1500-400

CDN FOR DC UP TO 1.500 V / 400 A AND UP TO 8 KV BURST TESTING



FOR TESTS ACCORDING TO ...

- > ECE-R10
- > EN 61000-4-4
- > IEC 61000-4-4
- > IEC 61851-21




PCD 8-DC B-1-1500-400 - COUPLING/DECOUPLING NETWORKS FOR HIGH CURRENT DC LINES UP TO 1.500 V

Burst pulses are applied to high voltage and high current DC lines by means of standalone coupling/decoupling networks. For such testing AMETEK CTS offers the PCD 8-DC b-1-1500-400 for DC supply lines up to 1.500 V and up to 400 A. According to IEC/EN 61000-4-4 the pulses are coupled via 33 nF capacitors to all lines DC+, DC- and to PE.

HIGHLIGHTS

- > Coupling/decoupling networks according to IEC/EN 61000-4-4
- > Coupling to DC+, DC- and PE on high current DC lines
- > Line voltage 1.500 V DC up to 400 A DC
- > Burst test voltage up to 8 kV
- > Common mode coupling to all lines
- > Supported by compact NX and NSG 30x0A

APPLICATION AREAS

-  AUTOMOTIVE
-  RENEWABLE ENERGY
-  INDUSTRY

TECHNICAL DETAILS

BURST APPLICATION

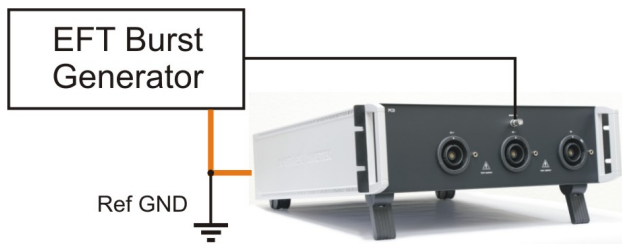
PCD 8-DC B-1-1500-400 TEST SETUP

The AMETEK CTS PCD 8-DC b-1-1500-400 coupling decoupling network is a manual CDN for coupling Burst pulses onto all lines in common mode of high current DC power lines.

It is a Dual-Brand device and supported by EM TEST compact NX- as well as by Teseq NSG 30x0A-generators.

The PCD also includes the required decoupling part for each line to protect the AE-port.

AMETEK CTS offers the PCD 8-DC b-1-1500-400 coupling/decoupling networks for test voltages up to 8 kV and for higher line DC-voltages/currents (up to 1.500 V and up to 400 A).

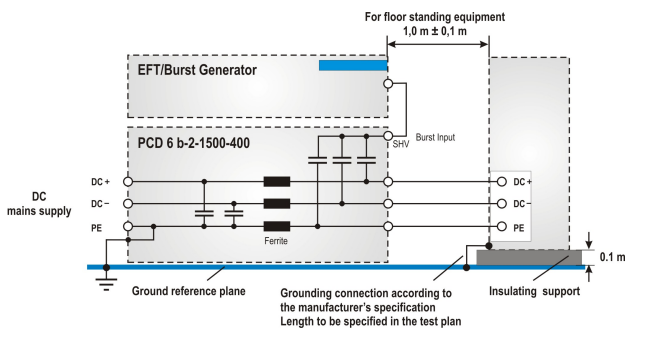


COUPLING

DC COUPLING FOR BURST

The AMETEK CTS PCD 8-DC b-1-1500-400 couples the burst impulses via 33 nF coupling capacitors in common mode to DC+, DC- and PE lines.

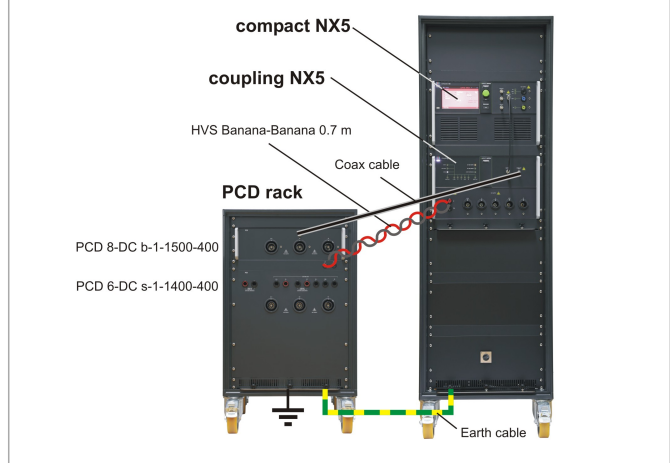
The decoupling network decouples the burst impulses to the AE Port of the 400 A DC lines.



COMBINATION BURST-SURGE

RACK FOR BURST AND SURGE

The also available surge coupling network PCD 6-DC s-1-1400-400 which is integrated in a rack has additional space to integrate the burst coupling decoupling network PCD 8-DC b-1-1500-400 in one housing.



TECHNICAL DETAILS

PCD 8-DC B-1-1500-400

8 KV MODEL, LINE VOLTAGE MAX. 1.500 V DC

PCD 8-DC b-1-1500-400	8 kV coupling/decoupling network max. line current 400 A
DC voltage EUT	1.500 V
DC current EUT	400 A
Burst coupling	Common mode to DC+, DC-, PE

TECHNICAL DATA

BURSTIMPULSE

Impulse voltage	0.2 -8.0 kV ±10 %
Coupling	Common mode
Coupling capacitance	33 nF to DC+, DC-, PE
coupling common mode	to DC+, DC-, PE
Residual voltage	< 400 V @ 4000 V burst

EUT DATA

Lines	DC+, DC-, PE
supply voltage	max. 1.500 V
EUT current	max. 400 A

OUTPUT SOCKET

Connector	Multi Contact: Socket ID/B16BV-NS-A
DC+	Code plug C1
DC-	Code plug C4
PE	Code plug C5

GENERAL

PCD 8-DC B-1-1500-400, DIMENSION AND WEIGHTS

Device	3 HU, 19"
dimension (LxWxH)	448 mm x 500 mm x 153 mm
Weight	14.5 kg

ENVIRONMENT

Temperature	10 °C to 40 °C
Humidity	10 % to 80 %, non condensing
Atmospheric pressure	86 kPa (860 mbar) to 106 kPa (1,060 mbar)

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.