

PCD 6-DC S-1-1400-400

CDN FOR DC UP TO 1.400 V / 400 A FOR UP TO 6 KV SURGE TESTING



FOR TESTS ACCORDING TO ...

- > ECE-R10
- > EN 61000-4-5
- > IEC 61000-4-5
- > IEC 61851-21




PCD 6-DC S-1-1400-400 - COUPLING/DECOUPLING NETWORKS FOR HIGH CURRENT DC LINES UP TO 1.400 V

Surge 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 6-DC s-1-1400-400 for DC supply lines up to 1.400 V and up to 400 A. According to IEC/EN 61000-4-5 the pulses are manually coupled via bridge elements with line to line (2 ohm/18 uF) or line to PE with (12 Ohm/ 9 uF)

HIGHLIGHTS

- > Coupling/decoupling networks according to IEC/EN 61000-4-5
- > Coupling to high current DC lines with 2/12 Ohm
- > Line voltage 1.400 V DC up to 400 A DC
- > Surge test voltage up to 6 kV
- > Manual coupling for differential mode or common mode
- > Supported by compact NX and NSG 30x0A

APPLICATION AREAS

-  AUTOMOTIVE
-  RENEWABLE ENERGY
-  INDUSTRY

TECHNICAL DETAILS

SURGE APPLICATION

PCD 6-DC S-1-1400-400

The AMETEK CTS PCD 6-DC s-1-1400-400 coupling decoupling networks is a manual CDN for coupling Surge pulses onto high current DC power lines.

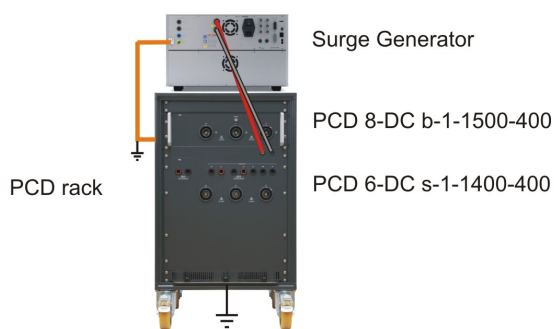
It is a Dual-Brand device and supported by EM TEST compact NX- as well as by Teseq NSG 30x0A-generators.

The PCD 6-DC s-1-1400-400 combine three different applications; coupling of Surge pulse
 Differential mode: DC+ to DC-,
 Common mode: DC+ to PE,
 Common mode: DC- to PE,
 Common mode: DC+ & DC- to PE

The required coupling mode can easily be selected by means of a simple jumper.

The PCD also include the required decoupling part consisting of decoupling inductors of 0.19 mH for each line and 100 uF for PE line. To protect the AE-port, an additional protection circuit is integrated at the line input.

AMETEK CTS offers the PCD 6-DC s-1-1400-400 coupling/decoupling networks for test voltages up to 6 kV and for higher line voltages/currents (up to 1.400 V and up to 400 A).



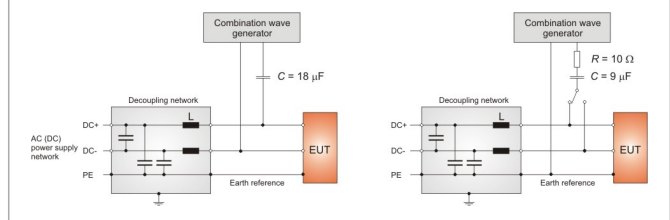
COUPLING

DC COUPLING FOR SURGE

The PCD 6-DC s-1-1400-400 coupling decoupling network is a CDNs for the application of Surge pulses onto high-voltage and currents DC-supply lines.

Surge as per IEC 61000-4-5 Ed.3, Figure 5
 - Capacitor 18 uF with 2 ohm

Surge as per IEC 61000-4-5 Ed.3, Figure 6
 - Capacitor 9 uF with 12 ohm



TECHNICAL DETAILS

PCD 6-DC S-1-1400-400

6 KV MODEL, LINE VOLTAGE MAX. 1.400 V DC

PCD 6-DC s-1-1400-400	6 kV coupling/decoupling network max. line current 400 A
DC voltage EUT	1.400 V
DC current EUT	125 - 400 A
Surge coupling	as per Fig. 5/6 of IEC 61000-4-5 Ed.3, - 18 μ F capacitor via 2 ohm, - 9 μ F capacitor via 12 ohm

TECHNICAL DATA

SURGE IMPULSE

Impulse voltage	0.2 - 6.0 kV \pm 10%
Coupling	Manual setting with bridges
coupling differential	2 ohm, 18 μ F to DC+ to DC-
coupling common mode	12 ohm, 9 μ F to DC+ to PE, DC- to PE DC+, DC- to PE
Residual voltage	< 3000 V @ 6000 V surge, typical < 2000 V

EUT DATA

Lines	DC+, DC-, PE
supply voltage	max. 1.400 V
EUT current	125 - 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

DECOUPLING

Decoupling inductance	0.19 mH, each line, 100 μ H, PE
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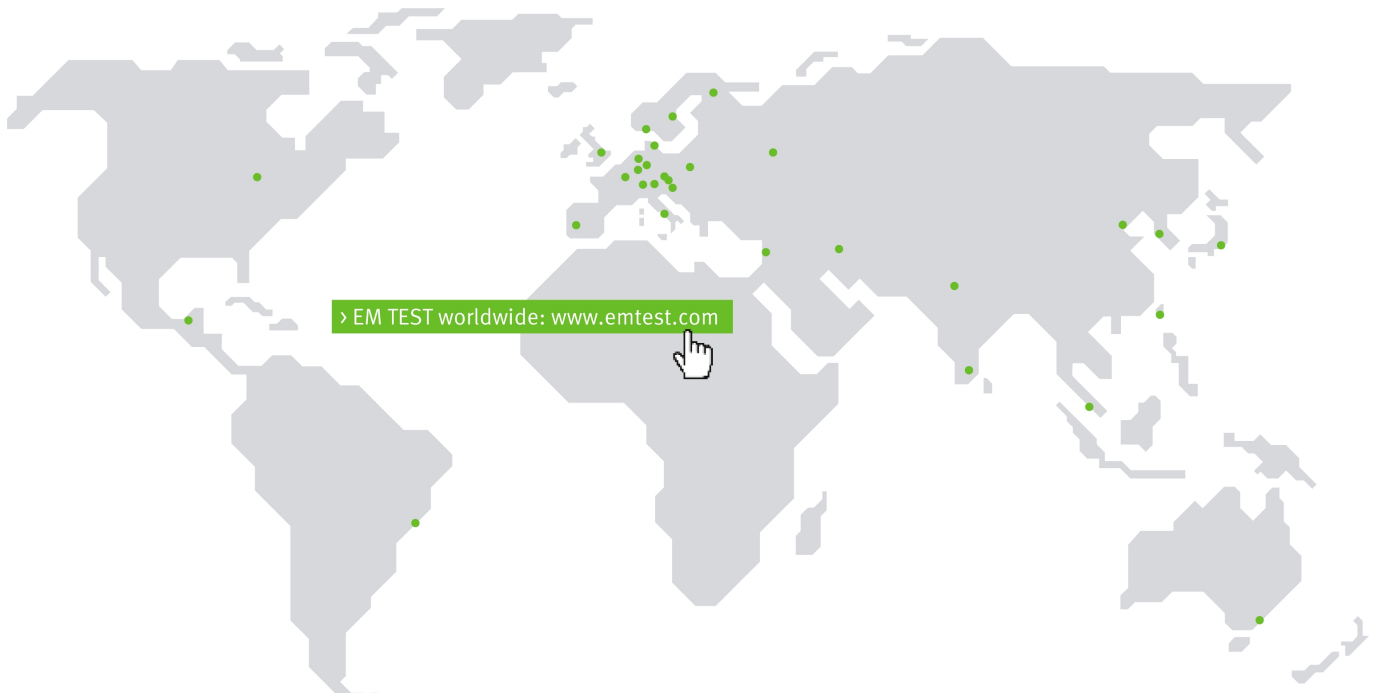
PCD 6-DC S-1-1400-400, DIMENSION AND WEIGHTS

Rack	16 HU, 19"
dimension (LxWxH)	553 mm x 600 mm x 920 mm
Weight	103.0 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.