PCD 8-DC B-1-1500-400
CDN FOR DC UP TO 1.500 V / 400 A AND UP TO 8 KV BURST TESTING

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 5/7 series generators

APPLICATION AREAS
- AUTOMOTIVE
- RENEWABLE ENERGY
- INDUSTRY
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.

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).

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.

www.emtest.com
# TECHNICAL DETAILS

<table>
<thead>
<tr>
<th>PCD 8-DC B-1-1500-400</th>
<th>8 KV MODEL, LINE VOLTAGE MAX. 1.500 V DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 KV coupling/decoupling network max. line current 400 A</td>
<td>8 KV MODEL, LINE VOLTAGE MAX. 1.500 V DC</td>
</tr>
<tr>
<td>DC voltage EUT</td>
<td>1.500 V</td>
</tr>
<tr>
<td>DC current EUT</td>
<td>400 A</td>
</tr>
<tr>
<td>Burst coupling</td>
<td>Common mode to DC+, DC-, PE</td>
</tr>
</tbody>
</table>

## TECHNICAL DATA

### BURSTIMPULSE

<table>
<thead>
<tr>
<th>Impulse voltage</th>
<th>0.2 - 8.0 kV ±10 %</th>
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<tbody>
<tr>
<td>Coupling</td>
<td>Common mode</td>
</tr>
<tr>
<td>Coupling capacitance</td>
<td>33 nF to DC+, DC-, PE</td>
</tr>
<tr>
<td>coupling common mode</td>
<td>to DC+, DC-, PE</td>
</tr>
<tr>
<td>Residual voltage</td>
<td>&lt; 400 V @ 4000 V burst</td>
</tr>
</tbody>
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### EUT DATA

<table>
<thead>
<tr>
<th>Lines</th>
<th>DC+, DC-, PE</th>
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</thead>
<tbody>
<tr>
<td>supply voltage</td>
<td>max. 1.500 V</td>
</tr>
<tr>
<td>EUT current</td>
<td>max. 400 A</td>
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</tbody>
</table>

### OUTPUT SOCKET

<table>
<thead>
<tr>
<th>Connector</th>
<th>Multi Contact: Socket ID/B16BV-NS-A</th>
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<tbody>
<tr>
<td>DC+</td>
<td>Code plug C1</td>
</tr>
<tr>
<td>DC-</td>
<td>Code plug C4</td>
</tr>
<tr>
<td>PE</td>
<td>Code plug C5</td>
</tr>
</tbody>
</table>

## GENERAL

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

- **Device**: 3 HU, 19”
- **dimension**: 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

CONTACT EM TEST DIRECTLY

<table>
<thead>
<tr>
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<th>Address</th>
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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.