Brake Chopper Module

CB-120-1500

Summary

- Brake chopper module for generator operation with converter CC-75-400, CC-75-500 and CC-100-1000
- Also suitable for customized converters/applications
- Usable as electronic load in R, U and I operation
- Maximum brake power: 1,500 W
- Maximum current: 30 A
- Connection of two converters for coupled motor-motor test benches possible (power supply for each converter can be turned on/off individually)

- Power flow possible between in- and output as well as between the two outputs
- Highly dynamic voltage control for fast braking sequences
- Galvanic isolated power and control electronics
- Display of the most important operating parameters, e.g. in-/output power, in-/output current, etc.
- Configuration directly at the device or via PC control software (CelerotonPilot)

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage control electronics (DC)</td>
<td>24 V</td>
</tr>
<tr>
<td>Input voltage power electronics $U_{in}$ (DC)</td>
<td>0 – 120 V</td>
</tr>
<tr>
<td>Maximum brake power</td>
<td>1'500 W</td>
</tr>
<tr>
<td>Output voltage 1, output voltage 2 (DC) $U_{in}$</td>
<td></td>
</tr>
<tr>
<td>Maximum in-/output current (DC)</td>
<td>30 A</td>
</tr>
<tr>
<td>Communication interface</td>
<td>USB</td>
</tr>
<tr>
<td>Communication interfaces (switchable)</td>
<td>RS232/ RS485, CAN</td>
</tr>
<tr>
<td>PC control software</td>
<td>CelerotonPilot</td>
</tr>
<tr>
<td>Weight</td>
<td>8 kg</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>340 x 250 x 140 mm</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 – 40 °C</td>
</tr>
</tbody>
</table>
I/O connections

**Connector X5 – I/O interface (6 pins)**

- 2 x analog input 0 – 10 V
- 2 x analog output 0 – 10 V
- 2 x GND

**Connector X6 – I/O interface (8 pins)**

- 2 x digital inputs Logic level adjustable 0 – 24 V
- 2 x GND
- 2 x digital outputs 0 – 24 V (relay, normally open contacts)
- 1 x COM Common rail for digital outputs

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**Schematic setup chopper operation**

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**Schematic setup chopper operation motor-motor test bench**
Schematic setup load operation (R, U, I operation)

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