### Surge protection for the IEC/EN power supply unit

**IEC / EN device protection, type 3**

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**Device protection COMBITRAB and MAINTRAB**

COMBITRAB CBT... are multiple socket strips with integrated type 3 (device protection) surge protection. Like the MAINTRAB MNT... socket adapters, they too have an operating indicator that goes out if the surge protection no longer has the required capacity due to load. The protective circuit is thermally monitored.

**MNT Powerline** is a type 3 surge protection adapter with a special protective circuit and optimized attenuation behavior. It can therefore be used in PLC (Power Line Communication).

Type 3 (device protection) surge protection devices are arresters of the third protection stage.

*Note: More information on other versions of CBT... socket strips and MNT attachment plugs with combined protection for the power supply unit and the interfaces of data/information technology is given from page 151.*

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<table>
<thead>
<tr>
<th>Description</th>
<th>For country-specific use in</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMBITRAB, socket strip with surge protection</td>
<td>Black D, I, NL, E, P</td>
</tr>
<tr>
<td>MAINTRAB, attachment plug with signal lamp for plugging into a socket, for device protection</td>
<td>Black D, A, NL, N, FIN White D, A, NL, N, FIN Black S, F, CZ, SVK, PL Black E, P White S, FIN, N</td>
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<tr>
<td>MAINTRAB, surge protection attachment plug for plugging into a socket for equipment protection</td>
<td>Black D, A, NL, E, P</td>
</tr>
</tbody>
</table>

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**Technical data**

**Electrical data**

- **IEC category / EN type**
- **Nominal voltage** $U_N$
- **Highest continuous voltage** $U_C$
- **Nominal load current** $I_L$
- **Nominal discharge surge current** $I_d (8/20) \mu s$
- **Combined surge** $U_{OC}$
- **Protection level** $U_p$
- **Response time** $t_A$

**General data**

- **Temperature range**
- **Inflammability class in acc. with UL 94**
- **Test standards**
## Surge protection for the IEC/EN power supply unit

**IEC / EN device protection, type 3**

<table>
<thead>
<tr>
<th>Type</th>
<th>Order No.</th>
<th>Pcs. / Pkt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBT-SCHUKO</td>
<td>2857280</td>
<td>1</td>
</tr>
<tr>
<td>MNT-1 D</td>
<td>2882200</td>
<td>1</td>
</tr>
<tr>
<td>MNT-1 D/WH</td>
<td>2882213</td>
<td>1</td>
</tr>
<tr>
<td>MNT-NET B/F</td>
<td>2882226</td>
<td>1</td>
</tr>
<tr>
<td>MNT-1 E</td>
<td>2882239</td>
<td>1</td>
</tr>
<tr>
<td>MNT-1 S/WH</td>
<td>2880862</td>
<td>1</td>
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<td>MNT-POWERLINE</td>
<td>2858001</td>
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**Technical Specifications**

<table>
<thead>
<tr>
<th>Type</th>
<th>IEC / EN</th>
<th>Device Protection</th>
<th>IEC / EN Power Supply Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>III / T3</td>
<td>IEC / EN</td>
<td>Device Protection, type 3</td>
<td>Surge protection for the IEC/EN power supply unit</td>
</tr>
<tr>
<td>230 V AC</td>
<td>IEC / EN</td>
<td>Device Protection, type 3</td>
<td>Surge protection for the IEC/EN power supply unit</td>
</tr>
<tr>
<td>260 V AC / 260 V AC</td>
<td>16 A (≤ 30°C)</td>
<td>Surge protection for the IEC/EN power supply unit</td>
<td>Surge protection for the IEC/EN power supply unit</td>
</tr>
<tr>
<td>1.5 kA / 1.5 kA</td>
<td>4 kV</td>
<td>Surge protection for the IEC/EN power supply unit</td>
<td>Surge protection for the IEC/EN power supply unit</td>
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<tr>
<td>1.5 kA / 1.5 kA</td>
<td>4 kV</td>
<td>Surge protection for the IEC/EN power supply unit</td>
<td>Surge protection for the IEC/EN power supply unit</td>
</tr>
<tr>
<td>1.3 kV / 1.5 kV</td>
<td>4 kV</td>
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<td>Surge protection for the IEC/EN power supply unit</td>
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<tr>
<td>≤ 1.5 kV</td>
<td>≤ 1.5 kV</td>
<td>Surge protection for the IEC/EN power supply unit</td>
<td>Surge protection for the IEC/EN power supply unit</td>
</tr>
<tr>
<td>≤ 1.5 kV</td>
<td>≤ 1.5 kV</td>
<td>Surge protection for the IEC/EN power supply unit</td>
<td>Surge protection for the IEC/EN power supply unit</td>
</tr>
<tr>
<td>≤ 25 ns / ≤ 100 ns (and N-PE)</td>
<td>≤ 25 ns / ≤ 100 ns (and N-PE)</td>
<td>Surge protection for the IEC/EN power supply unit</td>
<td>Surge protection for the IEC/EN power supply unit</td>
</tr>
<tr>
<td>-20°C ... 75°C</td>
<td>-25°C ... 75°C</td>
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<td>Surge protection for the IEC/EN power supply unit</td>
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<td>IEC 61643-1 / DIN EN 61643-11/A11</td>
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<tr>
<td>V0</td>
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<td>Surge protection for the IEC/EN power supply unit</td>
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**Manufacturer Details**

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