Fuse Box 2000VDC

ON BOARD FUSE BOX AND CONNEXION BOX
FUSE BOX RANGE 750VDC - 1500VDC - 2000VDC

For more than 50 years, Mersen have been providing the market with safe, reliable and longer life time fuse boxes. These devices offer high performances and robustness for heavy duty requirements with very limited maintenance.

Mersen offers one of the largest product ranges on the market and have a Fuse Box solution that will meet your unique needs.

Our Fuse Box product line is rigorously engineered to meet your technical specifications and can see their dimensions be customised to your needs.

They can be installed vertically or horizontally on the roof or on the bogie.

They can include additional functions like Voltage or Current measurement system or relays for Voltage detection.

TECHNICAL DATA OVERVIEW

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage DC</td>
<td>2000 VDC</td>
</tr>
<tr>
<td>Ampere Range (A)</td>
<td>160 ... 560 A</td>
</tr>
<tr>
<td>Breaking capacity</td>
<td>See DC fuse characteristics</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-20°C to +40°C</td>
</tr>
</tbody>
</table>

FEATURES & BENEFITS

- Single shape moulded box and cover (not glued/screwed) which can be customised to your dimensions and have its number of entries and exits adapted
- Fuse Boxes can host 1, 2 or 3 different circuits with separate or common entries and exits
- Voltage range 750VDC; 1500VDC; 2000VDC IEC or UL Standard
- Current range up to 560A DC per box (2 fuses in parallel)
- Box Configuration can include additional functions like Fuse micro switches (blown fuse indication) or window
- Covers are equipped with captive screws
- Resistance to strong mechanical impacts, rain, snow, wind, sun and detergents, as well as some vibration.
- Polyester resin reinforced with 25% glass fiber, fire & smoke classification M1F1 under NF F 16 101/16 102, coated with GELCOAT, 300 to 400 μm thick, available in a variety of colors, fire & smoke classification M1F3 under NF F 16 101/16 102
- Can be mounted on U-shape rails with Micaver insulators or screwed onto moulded blind-hole inserts

APPLICATIONS

- Auxiliary circuit protection

STANDARDS

- IEC 61373 level 3
- M1F3 or M1F2 following NF F 16 101/16 102
- EN 45545
**Fuse Box 2000VDC**

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Fuse Box details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
</tr>
<tr>
<td>IP</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

**2000VDC Fuse Box - 1 Fuse 302 with MC (160 to 280Amp)**
DWG 1046190

**2000VDC Fuse Box - 2 Fuses 302 with MC (160; 560; 600Amp)**
DWG 1015002

**FUNCTIONS**

**Blown Fuse Indication**
All fuses can be equipped with microswitches to signal their status (blown or not).
**FUNCTIONS**

**Special Microswitch clamping**
To secure the position of the microswitch, Mersen has developed a special clamping system.

**Volt and Amp measurement**
**Voltage detection**
Fuse Box can include Volt and Amp measurement devices. Fuse Box can include Voltage detection system using Mors HVDR relay.

**Blown fuse cover window**
A window in the cover will help you to see the status of the fuse if you don't use the microswitches.

**Colour**
Initial colour of our Fuseboxes is RAL 7010 but we can change it for a specified color requested by you as per the RAL chart (mass tainted minimum 200 boxes), for purely cosmetic reasons.

**Training and technical support**
All around the world, Mersen technical team can help you for technical support and can offer you customized training sessions for your Maintenance team.

**LCC; RAMS; Type tests**
Mersen teams can supply Life Cycle Costs (LCC), Reliability Availability Maintainability Safety (RAMS), and Failure Mode and Effect Analysis (FMEA) studies. They can operate Qualification type tests.
Fuse Box 2000VDC

ACCESSORIES

### Cable Glands

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>Item number</th>
<th>Package</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Gland ISO Diam 50</td>
<td>D1039235</td>
<td>10 pieces</td>
<td>50 g</td>
</tr>
<tr>
<td>Cable Gland ISO Diam 40</td>
<td>B1039233</td>
<td>10 pieces</td>
<td>50 g</td>
</tr>
<tr>
<td>Cable Gland ISO Diam 32</td>
<td>P127364</td>
<td>10 pieces</td>
<td>50 g</td>
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### Traction fuses

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>Item number</th>
<th>Package</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC 20 GRE 302 QF 160</td>
<td>S075755A</td>
<td>1 piece</td>
<td>2.3 kg</td>
</tr>
<tr>
<td>CC 20 GRE 302 QF 200</td>
<td>T075766A</td>
<td>1 piece</td>
<td>2.3 kg</td>
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<tr>
<td>CC 20 GRE 302 QF 250</td>
<td>V075757A</td>
<td>1 piece</td>
<td>2.3 kg</td>
</tr>
<tr>
<td>CC 20 GRE 302 QF 280</td>
<td>W075758A</td>
<td>1 piece</td>
<td>2.3 kg</td>
</tr>
<tr>
<td>MICROSWITCH HOLDER SIZE 30X</td>
<td>-</td>
<td>1 piece</td>
<td>0.15 kg</td>
</tr>
</tbody>
</table>

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