Fuse Box on Bogies 750VDC

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. Our Fuse box has a strong resistance to mechanical impacts, rain, snow, wind, sun, detergents, vibration Box Configuration can include additional functions:
- Fuse micro switches (blown fuse indication) or window
- Voltage presence relay
- Energy Measurement (Volt, Amp, Watt)
CEI & UL standard fuses
Fuse Boxes can be coloured upon request (cosmetic reason)

FEATURES & BENEFITS
- Single shape moulded box and cover 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
- 750VDC; 1500VDC; 2000VDC
- Current range up to 3500A DC per box (6 fuses in parallel)
- Connection: cable glands/protected by cover
- Covers are equipped with captive screws
- 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 MIF3 under NF F 16 101/16 102
- or Sheet Moulding Compound (SMC): Polyester resin reinforced with 25% glass fiber, dyed in the mass, fire & smoke classification MIF2 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
- Power Converter or Circuit Breaker power supply protection

STANDARDS
- IEC 61373 level 3
- MIF3 or MIF2 following NF F 16 101/16 102
- EN 45545

TECHNICAL DATA OVERVIEW

<table>
<thead>
<tr>
<th>Voltage DC</th>
<th>750 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ampere Range (A)</td>
<td>250 ... 1400 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>
TECHNICAL DATA

<table>
<thead>
<tr>
<th>Mounting</th>
<th>Fuse_Box details</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td>Horizontal or Vertical</td>
</tr>
<tr>
<td>55</td>
<td></td>
</tr>
</tbody>
</table>

DIMENSIONS

750VDC Fuse Box compact size + Cable Gland - 1 Fuse 123 W/O MC - DWG 126552

Dimensions in mm

750VDC Fuse Box compact size + Cable Protection - 1 Fuse 123 W/O MC - DWG 1036865

Dimensions in mm

750VDC Fuse Box compact size + Cable Protection - 1 Fuses 123 With MC - DWG 1027627

Dimensions in mm
Fuse Box on Bogies 750VDC

DIMENSIONS

750VDC Fuse Box compact size + Cable Gland - 2 Fuses 123 W/O MC - DWG 1044414

Dimensions in mm

750VDC Fuse Box compact size + Cable Protection - 2 Fuses 123 W/O MC - DWG 1014499

Dimensions in mm

750VDC Fuse Box compact size + Cable Glands - 2 Fuses 123 With MC - DWG 1049033

Dimensions in mm
Fuse Box on Bogies 750VDC

DIMENSIONS

750VDC Fuse Box compact size + Cable Protection - 2 Fuses 123 With MC - DWG 1031072

FUNCTIONS

Fuse Microswitches
All fuses can be equipped with microswitches to signal their status (blown or not).

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

Special Micro switch clamping
To secure the position of the microswitch, Mersen has developed a special clamping system.
Fuse Box on Bogies 750VDC

FUNCTIONS

Blown fuse cover Window
A window in the cover can 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 taint 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.

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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</table>
## ACCESSORIES

### 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 7,5 GRC 122 TTF 0350</td>
<td>G220898A</td>
<td>1 piece</td>
<td>1.5 kg</td>
</tr>
<tr>
<td>CC 7,5 GRC 122 TTF 0400</td>
<td>C090438A</td>
<td>1 piece</td>
<td>1.5 kg</td>
</tr>
<tr>
<td>CC 7,5 GRC 122 D19Si 0315</td>
<td>M221915A</td>
<td>1 piece</td>
<td>1.6 kg</td>
</tr>
<tr>
<td>CC 7,5 GRC 122 D19Si 0400</td>
<td>A233864A</td>
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<td>1.6 kg</td>
</tr>
<tr>
<td>CC 7,5 GRC 123 TTF 0500</td>
<td>D090439A</td>
<td>1 piece</td>
<td>2 kg</td>
</tr>
<tr>
<td>CC 7,5 GRC 123 TTF 0600</td>
<td>H239207A</td>
<td>1 piece</td>
<td>2.2 kg</td>
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<tr>
<td>CC 7,5 GRC 123 TTF 0700</td>
<td>N1013714A</td>
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<td>2.3 kg</td>
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<td>C221216A</td>
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<td>MICROSWITCH HOLDER SIZE 12X</td>
<td>Q1049941A</td>
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<td>0.15 kg</td>
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