Roof-mounted switch is integrable into pantograph structure for space and weight saving.

Space and weight saving indoor disconnecting and earthing device for any kind of traction vehicles.

Disconnecting-earthing switches protect by earthing function 1,5 kV and 3 kV circuits during operation under AC overhead lines.

- Connecting pantograph to DC circuits
- Earthing DC circuits under AC catenary
- Can be used also as disconnector of AC circuits on the vehicle

CUSTOMER BENEFITS:

Indoor switch:

- 5 years maintenance-free
- 50% space and weight saving solution (in comparison to standard roof mounted solutions)
- Emergency manual control included

Roof-mounted switch:

- Robust design able to withstand the repeated overcurrent
- Modular solution easily adaptable to different configurations
- Possible to integrate surge arrestor and revolving head for rigid HV connection
Indoor disconnecting-earthing switch: Designed for all AC and DC catenary systems.

- Available actuation systems
  - Electric drive
  - Manual operation in emergency mode
- Designed to resist high humidity and extreme weather conditions

Roof-mounted switch: Robust contact head to withstand 100 kA short circuits.

- Connecting pantograph to DC circuits
- Earthing DC circuits under AC catenary
- Standardized catalogue solution

References

- Locomotive Madhepura, Alstom, India
- High speed train Amtrak, Alstom, USA
- ICNG Coradia Stream, Alstom, Netherlands

Compliant with IEC 60077, EN50388, EN45545-2 and NFPA130

### Disconnecting-earthing switches data

<table>
<thead>
<tr>
<th></th>
<th>Indoor switch</th>
<th>Roof-mounted switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-25° C to +70° C</td>
<td>-50° C to 70°C</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>up to 25 kV AC</td>
<td></td>
</tr>
<tr>
<td>Control voltage</td>
<td>(24, 72) 110 V DC</td>
<td></td>
</tr>
<tr>
<td>Overvoltage category, EN 50124-1</td>
<td>OV3</td>
<td>PD3</td>
</tr>
<tr>
<td>Pollution degree, EN 50124-1</td>
<td>PD3</td>
<td>PD4</td>
</tr>
<tr>
<td>Weight</td>
<td>27,6 kg</td>
<td>53,8 kg</td>
</tr>
<tr>
<td>Dimensions</td>
<td>202,5 x 490 x 407(h) mm</td>
<td>448 x 624 x 593(h) mm</td>
</tr>
<tr>
<td>Short circuit withstand, EN50388</td>
<td>- -</td>
<td>lcc 100 kA peak</td>
</tr>
</tbody>
</table>

To discover everything Disconnecting-earthing switches can do, contact

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