SF6 BREAKER LTB 170D1/B WITH OPERATING MECHANISM TYPE MSD1

1. Cable inlet see fig.
2. Terminal of aluminium.
3. Terminal of aluminium.
4. Holes for earthing clamp
5. Centre of gravity
6. Hole for bolt M24
7. Break chamber insulator
   Polymeric insulator
8. Post insulator
   Polymeric insulator
10. Density switch
11. -
12. Cubicle

ABB AB

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SF6 BREAKER LTB 170D1/B WITH OPERATING MECHANISM TYPE MSD1

<table>
<thead>
<tr>
<th>Breaker</th>
<th>Frame/beam</th>
<th>Operating mechanism</th>
<th>Total mass (gas excluded)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3x151</td>
<td>160x2+120</td>
<td>230</td>
<td>125</td>
</tr>
</tbody>
</table>

**Mass in kg**

**Loads on foundation and foundation bolts**

<table>
<thead>
<tr>
<th>Load definition</th>
<th>Foundation</th>
<th>Foundation bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Horizontal forces</td>
<td>Bending moments</td>
</tr>
<tr>
<td></td>
<td>Fx [kN]</td>
<td>Fy [kN]</td>
</tr>
<tr>
<td>Weight</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Static terminal load</td>
<td>1.9</td>
<td>1.1</td>
</tr>
<tr>
<td>Short circuit</td>
<td>10 kA</td>
<td>---</td>
</tr>
<tr>
<td>Wind</td>
<td>34 m/s</td>
<td>2.1</td>
</tr>
<tr>
<td>Operation</td>
<td>Upwards</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>Downwards</td>
<td>---</td>
</tr>
</tbody>
</table>

**Foundation bolt forces**

```
Horizontal forces:
Fx [kN] Fy [kN] Mx [kNm] My [kNm] Fz [kN] Fbz [kN]
--- --- --- --- --- ---
1.9 1.1 6.5 11.2 1.5 14.6

Static terminal load:
10 kA: 1.2 1.5
34 m/s: 2.1 1.0

Operation:
Upwards: 12.1 3.9
Downwards: 6.3 4.4
```