De-energized tap-changer
Type MT (Medium Voltage 24-72.5kV)
Order sheet
De-energized tap-changer - type MT

Application

Materials
- Insulating material: The insulating materials belong to class “E” in accordance with ISO 1642, DIN 7735, NF C36, Nema LI 1983 - BS standards.
- Contacts: Special brass and copper alloys so as to grant the best thermal, mechanical and wear performance in accordance with IEC 60214-1, IEC 60214-2 standards.

Selection
Designers can use the graph to determine the intersection between rated voltage and rated current for the tap changer required.
Higher current can be reached with special solution (please contact ABB Comem)

Some value could not be available for some kind of wiring diagram

<table>
<thead>
<tr>
<th>Current</th>
<th>24kV</th>
<th>36kV</th>
<th>72.5kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>150A</td>
<td>MT1</td>
<td>MT1</td>
<td>MT1</td>
</tr>
<tr>
<td>250A</td>
<td>MT1</td>
<td>MT1</td>
<td>MT1</td>
</tr>
<tr>
<td>350A</td>
<td>MT1</td>
<td>MT1</td>
<td>MT1</td>
</tr>
<tr>
<td>500A</td>
<td>MT2</td>
<td>MT2</td>
<td>MT2</td>
</tr>
<tr>
<td>650A</td>
<td>MT2</td>
<td>MT2</td>
<td>MT2</td>
</tr>
<tr>
<td>800A</td>
<td>MT2</td>
<td>MT2</td>
<td>MT2</td>
</tr>
<tr>
<td>1000A</td>
<td>MT3</td>
<td>MT3</td>
<td>MT3</td>
</tr>
<tr>
<td>1200A</td>
<td>MT3</td>
<td>MT3</td>
<td>MT3</td>
</tr>
<tr>
<td>1600A</td>
<td>MT3</td>
<td>MT3</td>
<td>MT3</td>
</tr>
<tr>
<td>1700A</td>
<td>MT3 (double stage)</td>
<td>MT3 (double stage)</td>
<td>MT3 (double stage)</td>
</tr>
<tr>
<td>1800A</td>
<td>MT3 (double stage)</td>
<td>MT3 (double stage)</td>
<td>MT3 (double stage)</td>
</tr>
<tr>
<td>1900A</td>
<td>MT3 (double stage)</td>
<td>MT3 (double stage)</td>
<td>MT3 (double stage)</td>
</tr>
<tr>
<td>2000A</td>
<td>MT3 (double stage)</td>
<td>MT3 (double stage)</td>
<td>MT3 (double stage)</td>
</tr>
</tbody>
</table>

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Order specification sheet

Type of tap-changer
- Bridge (SA)
- Linear (PF)
- Star Delta (CT3)
- Star Delta (CT3)
- Series/parallel (CT5)
- Exclusion of coil (CT5)
- Inclusion of coil (CT5)

Electrical features
- Rated insulation level (kV):
- Rated through current (A):
- Short circuit current (kA, 2 seconds):
- Adjustment *:
  * Adjustment: if nothing is specified, it is intended a value of 2.5 % of rated voltage as a standard. For discharge values, see table below.

General Information
- Number of position:
- Number of phases:
  - SA, PF: Internal reference

Between phases | To earth | Adjacent contacts *
--- | --- | ---
Lightning impulse test (1.2 / 50 ms) | Separate source AC withstand | * without wire terminal

Type of PIN
- 150A M8
- 150A FLAG
- 250A M10
- 250A M12
- 350A 350A
- 500A M14
- 500A 650A M16
- 500A 800A M20
- 500A FLAG
- 650A
- 800A
- 1000A FLAG
- 1250A
- 1600A

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**Order specification sheet**

### Layout and control devices

**Exit type**

<table>
<thead>
<tr>
<th>Horizontal</th>
<th>Height Man Return</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Left</strong></td>
<td></td>
<td><strong>High</strong></td>
</tr>
<tr>
<td><strong>Right</strong></td>
<td></td>
<td><strong>Low</strong></td>
</tr>
</tbody>
</table>

### Control Device Position

- **Wall tank**
- **Cover tank**

### Control device (on tank)

<table>
<thead>
<tr>
<th>Control device (on tank)</th>
<th>Control device (on tank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand wheel control (on wall/cover tank) MT1</td>
<td>Hand wheel control with box and position indication (cover or wall tank) MT1/MT2</td>
</tr>
<tr>
<td>Hand wheel control (on wall/cover tank) MT2</td>
<td>1 turn 1 step</td>
</tr>
<tr>
<td>Hand wheel control (height man) MT1/MT2</td>
<td>Hand wheel control with box, position indication and one micro switch (height man) MT1/MT2</td>
</tr>
<tr>
<td>Hand wheel control with box and position indication (cover or wall tank) MT1/MT2</td>
<td>1 turn 1 step</td>
</tr>
<tr>
<td>Hand wheel control with box, position indication and one micro switch (height man) MT1/MT2</td>
<td>Revolution control box with position indication (height man)</td>
</tr>
<tr>
<td>Motor drive unit</td>
<td>Revolution control box with position indication, one switch per position and at most two micro switch for tripping (height man)</td>
</tr>
</tbody>
</table>
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Order specification sheet

Numbering and «L» specification

Anchor brackets

For further information or clarification, please contact our support team:
E-mail address: it-support.comem@abb.com

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Order specification sheet

Special requests

<table>
<thead>
<tr>
<th>Date</th>
<th>Rev.</th>
<th>Customer reference</th>
</tr>
</thead>
</table>

**Draw your layout**

**Draw your diagram**

**3D models**

**Specify type of file (STEP, IGES, DWG...)**

**Friction cone**

**«S» joint**

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