OILTAP® MSE 340. VACUTAP® VME 340.

RETROFIT FOR EXCHANGE OF RS TAP CHANGERS.
Numerous energy supply companies in the region of the former Council for Mutual Economic Assistance (COMECON) have been using on-load tap-changers made in Bulgaria for decades. Many of these units have reached the end of their service life by now, but the transformer is still in good enough condition. The question of an adequate replacement arises.

MR offers professional replacement solutions which have proven themselves in real life. Instead of the standard type RS tap changer, MR offers with the products OILTAP® MSE the conventional oil switching technology or with the VACUTAP® VME the state of the art vacuum switching technology at identical outline dimensions. Together with a new motor drive unit TAPMOTION® ED, the transformer is ready for many more years of operation.

If you want to invest more in your future, you should consider using the TAPCON® voltage regulator of MR.

The advantages of the MR solutions:
- First-class quality
- Proven reliability
- Established motor drive unit TAPMOTION® ED
- Can be used without further adjustment of the transformer tank and only minor adaptions of the transformer connection leads
- Replacement possible within one day
- Easier maintenance
- Longer maintenance intervals with the OILTAP® MSE
- No need of maintenance with VACUTAP® VME up to 300,000 operations
- Comprehensive after-sales service
- Reasonable price

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>OILTAP® MSE</th>
<th>VACUTAP® VME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. rated through-current $I_{tm}$</td>
<td>340 A (three-phase)</td>
<td>340 A (three-phase)</td>
</tr>
<tr>
<td>Max. rated step voltage $U_{im}$</td>
<td>3300 V</td>
<td>3300 V</td>
</tr>
<tr>
<td>Max. rated switching capacity</td>
<td>1000 kVA (three-phase)</td>
<td>1000 kVA (three-phase)</td>
</tr>
<tr>
<td>Voltage for equipment $U_m$</td>
<td>72.5 / 123 kV</td>
<td>72.5 / 123 kV</td>
</tr>
<tr>
<td>Application</td>
<td>At neutral point (three-phase)</td>
<td>At neutral point (three-phase)</td>
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<tr>
<td>Operating positions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without change-over selector</td>
<td>Max. 14</td>
<td>Max. 14</td>
</tr>
<tr>
<td>With change-over selector</td>
<td>Max. 27</td>
<td>Max. 27</td>
</tr>
<tr>
<td>Tap selector size “B”</td>
<td>With coarse selector or reversing switch</td>
<td>With coarse selector or reversing switch</td>
</tr>
<tr>
<td>Maintenance interval</td>
<td>100,000 operations without MR oilfilter unit or 7 years whatever comes first</td>
<td>300,000 operations without time criteria</td>
</tr>
</tbody>
</table>
INSTALLATION OF THE RETROFIT KIT.

Step 1
Disconnecting, grounding, oil draining and opening the transformer man hole.

Step 2
Disconnecting and marking the outside selector leads.

Step 3
Removing the old OLTC.

Step 4
Installing the new MSE/VME OLTC.

Step 5
Adapting and connecting the outside selector leads.

Step 6
Assembling the motor drive unit, bevel gear, drive shaft and protective relay.

Step 7
Transformer ratio test, oil filling, drying procedure and operational test.

CONTACT:

You are interested in an exchange? Our competent staff is at your disposal for any questions.

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