Motor-Drive Unit
TAPMOTION® ED

Supplement

6028977/00 EN . High-temperature version
1 Supplement to appropriate use, product
description and installation

This supplement is valid and complete only together with the operating instructions for the device. This supplement is a supplement to the sections "Appropriate use", "Product description" and "Installation" in the operating instructions.

Safekeeping

Store this supplement together with the operating instructions in a readily available and accessible location for later use.

Supplement to appropriate use

Only operate the motor-drive unit in combination with the shielding housing provided.

Supplement to product description

Safety markings for the motor-drive unit are located on the outside of the housing.

Figure 1: Safety markings

| 1 | Safety marking |
Supplement to installation

Ensure the maximum permissible offset between the vertical shaft of the bevel gear and the output shaft of the motor-drive unit as well as the dimension V1 when fitting the shielding housing motor-drive unit.

Figure 2: Vertical drive shaft without cardan joints with/without insulator, permissible offset
Figure 3: Vertical drive shaft with cardan joints with/without insulator, permissible offset

<table>
<thead>
<tr>
<th>Vertical drive shaft version</th>
<th>V1 min</th>
<th>Intermediate bearing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without cardan joints, without insulator</td>
<td>536 mm</td>
<td>V1 &gt; 2472 mm: intermediate bearing necessary</td>
</tr>
<tr>
<td>Without cardan joints, with insulator</td>
<td>706 mm</td>
<td>V1 &gt; 2472 mm: intermediate bearing necessary</td>
</tr>
<tr>
<td>With cardan joints, without insulator</td>
<td>798 mm</td>
<td>V1 &gt; 2564 mm: intermediate bearing necessary</td>
</tr>
<tr>
<td>With cardan joints, with insulator</td>
<td>978 mm</td>
<td>V1 &gt; 2772 mm: intermediate bearing necessary</td>
</tr>
</tbody>
</table>

Table 1: Dimension V1
To fit the shielding housing and the motor-drive unit, proceed as follows:

1. Fit 4 stud bolts (not supplied by MR) to the transformer tank. The arrangement and diameter of the fixing lugs can be found in the drawings in the Annex.

![Figure 4: Stud bolts](image)

2. Attach to shielding housing without cover or base vertically to the transformer tank.

![Figure 5: Shielding housing](image)

3. **NOTICE!** Attach the motor-drive unit vertically and without warping or deforming to the transformer tank. Otherwise, the motor-drive unit and drive shaft may be damaged and increased noise may be produced.
The assembly holes for this purpose are located externally on the protective housing’s fixing lugs.

4. Attach the cover and base of the shielding housing.
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5. Connect the grounding screw on the motor-drive unit to the transformer tank. It is essential that a CUPAL washer is placed between the cable shoe and connecting lug. The aluminum side of the CUPAL washer must be facing the connecting lug.

![Figure 8: Grounding screw on motor-drive unit](image)

6. Connect the grounding screw on the motor-drive unit to the shielding housing and check the linkage to the motor-drive unit.

![Figure 9: Ground connection on the motor-drive unit and shielding housing](image)

7. Connect the main protective conductor to the protective conductor terminal on terminal bar X1 (minimum connection cross-section 2.5 mm²).
Figure 10: Main protective conductor