Description

The mixing fan replacement kit includes parts required to replace the mixing fan in D1h–D8h drives.

Kit Ordering Number

<table>
<thead>
<tr>
<th>Kit number</th>
<th>Kit description</th>
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</thead>
<tbody>
<tr>
<td>176F3165</td>
<td>Mixing fan DC 40x28</td>
</tr>
</tbody>
</table>

Table 1.1 Ordering Number for Kit

Items Supplied

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing fan</td>
<td>1</td>
</tr>
<tr>
<td>Installation instructions</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 1.2 Items Supplied in Kit

Safety Information

Only qualified, Danfoss authorized personnel are allowed to install the parts described in these installation instructions. Handling of the drive and its parts must be done in accordance with the corresponding operating guide.

**WARNING**

**ELECTRICAL SHOCK HAZARD**

VLT® FC series drives contain dangerous voltages when connected to mains voltage. Improper installation, and installing or servicing with power connected, can cause death, serious injury, or equipment failure.

To avoid death, serious injury, or equipment failure:

- Only use qualified electricians for the installation.
- Disconnect the drive from all power sources before installation or service.
- Treat the drive as live whenever the mains voltage is connected.
- Follow the guidelines in these instructions and local electrical safety codes.

**WARNING**

**DISCHARGE TIME**

The drive contains DC-link capacitors, which can remain charged even when the drive is not powered. High voltage can be present even when the warning LED indicator lights are off. Failure to wait the specified time after power has been removed before performing service or repair work can result in death or serious injury.

- Stop the motor.
- Disconnect AC mains and remote DC-link power supplies, including battery back-ups, UPS, and DC-link connections to other drives.
- Disconnect or lock PM motor.
- Wait for the capacitors to discharge fully. The minimum waiting time is 20 minutes.
- Before performing any service or repair work, use an appropriate voltage measuring device to make sure that the capacitors are fully discharged.
Installation Instructions

The mixing fan snaps into a slot in the power terminal mounting plate. To locate the fan, see Illustration 1.1. To access the fan in an enclosed drive, open the enclosure door.

Illustration 1.1 Location of Mixing Fan
To remove the mixing fan, use the following steps. Refer to Illustration 1.2.

**Disassembly**

1. Place the end of a screwdriver under each of the mixing fan release tabs. Press in and lift to free the fan and housing from the power terminal mounting plate.

2. Unplug the mixing fan cable connector. Tape the free end of the fan cable to the mounting plate so that it does not fall back into the drive.

3. Remove the mixing fan from the fan housing.
Reassembly
1. Connect the fan cable to the next mixing fan cable connector.
2. Position the mixing fan in the fan housing. Refer to Illustration 1.3.
3. Position the fan and housing in the fan slot on the power terminal mounting plate. See Illustration 1.2.
4. Press the mixing fan into the slot until the release tabs snap into place.

Illustration 1.3 Mixing Fan and Housing