The VLT® Real-time Clock MCB 117 option provides advanced data-logging functionality to the following drives:

- VLT® HVAC Drive FC 102
- VLT® Refrigeration Drive FC 103
- VLT® AQUA Drive FC 202
- VLT® AutomationDrive FC 301/FC 302

The option allows events to be time and date stamped, providing vast amounts of actionable data. The option keeps the drive updated with daily date and real-time data.

The MCB 117 option reads the time from the AC drive:
- at power up
- at 03:00 daily
- when the user resets the time in the AC drive

VLT® Real-time Clock MCB 117 option contains a back-up battery. The battery life is typically 10 years, depending on the environment. The MCB 117 option provides an early warning when the battery is dead.

The option is easy to mount in the D-slot on the drive’s control card.

### Feature | Benefit
--- | ---
Availability of real-time data with reference to run-time data | Preventive and predictive maintenance feature support
Programmable both locally and remotely via option | Easy access via LCP or fieldbus
Advanced data logging using real-time stamps | Help diagnose the failure analysis

### Ordering number
Order with code number 13486544.

### Specifications

<table>
<thead>
<tr>
<th>System integration</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time keeping accuracy</td>
<td>±5 min pr. year</td>
</tr>
<tr>
<td>Programmable time intervals</td>
<td>Programmable month, day, year, and local time zone in MM:SS</td>
</tr>
<tr>
<td>Battery life, operating</td>
<td>10 years</td>
</tr>
<tr>
<td>Battery life, storage</td>
<td>6 years</td>
</tr>
</tbody>
</table>

The back-up battery typically lasts for 10 years, when frequency converter is operating at 40 °C ambient temperature. The battery is not replaceable.

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Danfoss Drives is a world leader in variable speed control of electric motors. We offer you unparalleled competitive edge through quality, application-optimized products and a comprehensive range of product lifecycle services.

You can rely on us to share your goals. Striving for the best possible performance in your applications is our focus. We achieve this by providing the innovative products and application know-how required to optimize efficiency, enhance usability, and reduce complexity.

From supplying individual drive components to planning and delivering complete drive systems; our experts are ready to support you all the way.

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