MITOS-VT6 Control Modes

Four different modes of operation can be selected. The MITOS-VT6 can be used to start / stop the motor, to change the direction of rotation and speed, or just as display without control of inverter. Use the following table to select the operating mode depending on your inverter model:

<table>
<thead>
<tr>
<th>Mode</th>
<th>NC3</th>
<th>MB1/S15</th>
<th>FS1</th>
<th>AS1</th>
<th>PS1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start/Stop</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
</tr>
<tr>
<td>Frequency set point</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
</tr>
<tr>
<td>Start/Stop + Frequency set point</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
<td>CmOd=2</td>
</tr>
<tr>
<td>Only Display</td>
<td>CmOd#2</td>
<td>CmOd#2</td>
<td>CmOd#2</td>
<td>CmOd#2</td>
<td>CmOd#2</td>
</tr>
</tbody>
</table>

MITOS-VT6 MONITOR

- **Frequency reset**: If “ON” is selected in this mode, the set frequency is not saved and will be reset every time the inverter is switched off. IF “OFF” is selected the last frequency will be saved.
- **Display mode**: VT6 only as display

**CONFIGURATION MENU**

Access to setting menu is done by contemporary pressing of these keys at switching on.

**MENU SELECTION**

Use within the configuration menu the arrow keys. Use FWD- and REV-button to make a selection and STOP/RESET-button to leave the configuration menu. Here you can make the following selections:

- **Activation of FWD- and REV-buttons**: Use the FWD-/REV-button to activate or deactivate one or both direction of rotation.
- **Display of software version**
- **Selection of units** displayed by default (Hz, U/min, m/min, free unit)
- **Language** (German, English, Italian, Spanish)

**MITOS VT6 MONITOR**

- Standard display of MITOS VT6

Once the inverter is in “RUN”-Mode, the “Standard display” shows an arrow in the upper right corner (>). If the inverter receives a “RUN FWD”-command, the arrow rotates in clockwise direction, if it receives a “RUN REV”-command counter clockwise.

The displayed actual value of the output frequency (Freq.) can be scaled via parameter F710.

Pressing the MON-button the object of the second row can be selected between the following variables: Actual frequency, Reference frequency, Output current, Input voltage, Output voltage, last four faults, Total operating time.

If the VT6 is set in **Frequency set point** mode or in **Start/Stop + Frequency set point**, the output frequency can be changed directly in the standard display over.

**Easy connection with only one cable**
**Multilanguage**
**RS485 or TTL interface selectable**
**Frequency control**
**Frequency set point**
**Display of important operating settings, e.g.:**
  - frequency
  - Input / output voltage
  - Output current
  - Failures
  - Total operating time
SAFETY INFORMATION

Mandatory

Always read carefully this manual before installing and operating MITOS-VT6 control panels.

Warning

Always delivery a copy of this manual to end user of inverter or machine.

Danger

MITOS-VT6 transfers serial communication commands to TOSHIBA inverters. In case of failure or missing communication (or for communication cable breakage) it might be impossible to stop the motor. Always use a safe system to stop the motor.

Safety precautions

MITOS-VT6 can’t be used in any device that would present danger to human body or from which malfunction or error would present a direct threat to human life.

MITOS-VT6 was manufactured under the strictest quality controls but if it is to be used in critical equipment safety devices must be installed on the equipment.

This manual may be changed without prior notice.

EXTERNAL DIMENSIONS

External dimensions of MITOS VT6 are exactly same of previous model MITOS-VT5.

FITTING HOLE ON CONTROL PANEL

CONNECTION

MITOS-VT6 can be used with following TOSHIBA inverters: VF-nC1, VF-nC3, VF-S9, VF-S11, VF-S15, VF-MB1, VF-FS1, VF-A7, VF-P7, VF-AS1 and VF-PS1.

Connection can be made with standard RJ458 wires cable “pin to pin”.

For inverter connected with TTL-port the max length of cable is 15m. For VF-nC3, S15, MB1, FS1, PS1, and AS1 can be connected through RS485 serial port.

The connection method can be selected by two switcher on MITOS-VT6 back:

FUNCTION OF KEYS

Let motor run in clockwise direction if “Start/Stop” is selected.

Let motor run counter-clockwise if “Start/Stop” is selected.

Change frequency if “Frequency set point” is selected and “scroll items” in “monitor mode” for “Start/Stop” is selected.

Enter the MONitor mode

Stop the motor if “Start/Stop” is selected.