1 STOP/RESET: Stop command/ apply a Fault Reset.
2 LOCAL/REMOTE: used to switch between local and remote control of the drive.
3 ESC: used to quit a menu/parameter or remove the currently displayed value in order to revert to the previous value retained in the memory.
4 F1 to F4: used to access drive id, QR code, quick view, and submenus. Simultaneously pressing of F1 and F4 keys generates a screenshot file in the Graphic Display Terminal internal memory.
5 Graphic display
6 Home: used to access directly at the home page.
7 Information: used to have more information about menus, submenus, and parameters. The selected parameter or menu code is displayed on the first line of the information page.
8 RUN: executes the function assuming it has been configured.
9 Touch wheel/OK: used to save the current value or access the selected menu/parameter. The touch wheel is used to scroll fast into the menus. Up/down arrows are used for precise selections, right/left arrows are used to select digits when setting a numerical value of a parameter.
10 RJ45 Modbus serial port: used to connect the Graphic Display Terminal to the drive in the remote control.
11 MiniB USB port: used to connect the Graphic Display Terminal to a computer.
12 Battery (10 years life time. Type: CR2032). The battery positive pole points to the front face of the Graphic Display Terminal.

NOTE: Keys 1, 8 and 9 can be used to control the drive, if control via the Graphic Display Terminal is activated. To activate the keys on the Graphic Display Terminal, you first need to set (Config Ref Freq 1) Fr1 to (Ref. Frequency via Rmt. Term) LCC.

Three phase power supply connection
Control connection diagram
### Main Menu
1. Simply Start
2. Dashboard
3. Diagnostics
4. Display
5. Complete Settings
6. Communication
7. File Management
8. My Preferences

### Simply Start
- Basic Frequency
- Nominal Motor Power
- Nominal Motor Voltage
- Nominal Motor Current
- Nominal Motor Frequency
- Nominal Motor Speed
- Motor 1 Cosinus Phi
- 2/3-wire control
- Max Frequency
- Autotuning
- Autotuning Status
- Motor Th Current
- Acceleration
- Deceleration
- Low Speed
- High Speed

### My Menu
This menu contains the parameters selected in the (My menu config.) MyC- Menu

### Modified Parameters
This menu gives a quick access to the 10 last modified parameters

### Display
#### 4.1 Energy parameters
- Elc energy cons(TWh)
- Elc energy cons(GWh)
- Elc energy cons(MWh)
- Elc energy cons(kWh)
- Elc energy cons(Wh)
- Avc Elc out pwr estm
- Elc egY TODAY(KWh)
- Elc egY YESTERD(KWh)

#### 4.2 Pump dashboard
- Control Ref Freq 1
- Config Ref Freq 2
- Internal PID ref
- Auto/Manual assign
- Manual PID Reference
- Freq Switch Assign
- Cmd channel 1
- Cmd channel 2
- Command Switching
- Output Ph Rotation

#### 4.3 Pump parameters
- Drive State
- Ref Freq Channel
- Motor Torque
- Drive Thermal State
- IGBT Junction Temp
- Switching Frequency

#### 4.4 Motor parameters
- Motor Run Time
- Power-on Time
- Fan Operation Time
- Nb of start
- Time Counter Reset
- Motor Run Time
- Power-on Time
- Fan Operation Time

#### 4.5 Drive parameters
- Elc energy cons(TWh)
- Elc energy cons(GWh)
- Elc energy cons(MWh)
- Elc energy cons(kWh)
- Elc energy cons(Wh)
- Avc Elc out pwr estm
- Elc egY TODAY(KWh)
- Elc egY YESTERD(KWh)

#### 4.6 Thermal monitoring
- Drive State
- Warning Group 1
- Warning Group 2
- Warning Group 3
- Warning Group 4
- Warning Group 5

#### 4.7 PID display
- Error History
- Warnings
- Actual Warnings
- Warning Group 1
- Warning Group 2
- Warning Group 3
- Warning Group 4
- Warning Group 5
- Warning history

#### 4.8 Counter management

### 2 Dashboard

#### Display
- Ref Frequency
- Drive State
- Outlet Pressure
- Inlet Press. Value
- Installation Flow
- Flow Estimated
- PID Feedback Value
- Motor Speed
- Motor Therm state

#### Control
- Control Ref Freq 1
- Config Ref Freq 2
- Internal PID ref
- Auto/Manual assign
- Manual PID Reference
- Freq Switch Assign
- Cmd channel 1
- Cmd channel 2
- Command Switching
- Output Ph Rotation

#### Energy
- Elc energy cons(TWh)
- Elc energy cons(GWh)
- Elc energy cons(MWh)
- Elc energy cons(kWh)
- Elc energy cons(Wh)
- Avc Elc out pwr estm
- Elc egY TODAY(KWh)
- Elc egY YESTERD(KWh)

#### 3 Diagnostics

#### Error History
- Last Error 1
- Drive State
- Last error 1 Status
- ETI
- Cmd word
- Motor current
- Output frequency
- Elapsed Time
- Mains Voltage
- Motor therm state
- Command channel
- Ref Freq Channel
- Motor Torque
- Drive Thermal State
- IGBT Junction Temp
- Switching Frequency

#### Warning Group 1
- Warning Group 1
- Warning Group 2
- Warning Group 3
- Warning Group 4
- Warning Group 5

### 5 Complete Setting

#### 5.1 Motor Parameters
- Drive State
- Manual PID Reference
- Command Switching
- Output Ph Rotation

#### 5.2 Define System Units

#### 5.3 Sensors Assignment

#### 5.4 Command and Reference

#### 5.5 Pump Functions

#### 5.6 Pump monitoring

#### 5.7 Fan

#### 5.8 Generic functions

#### 5.9 Generic monitoring

#### 5.10 Input/Output

#### 5.11 Error/Warning handling

#### 5.12 Maintenance

### 6 Communications

#### 6.1 Comm parameters

### 7 File Management

#### Transfer config file

#### Factory settings

#### Parameter group list

#### Factory settings

### 8 My Preferences

#### 8.1 Language

#### 8.2 Password

#### 8.3 Parameter access

#### 8.4 Customization

#### 8.5 Date & Time setting

#### 8.6 Access level

#### 8.7 Webserver

#### 8.8 Functions key mgmt

#### 8.9 LCD settings

#### 8.10 Stop and go

#### 8.11 QR code

#### 8.12 Pairing password
### Main Menu

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### 4.1 Energy Parameters

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<td>Real Input Energy (Wh)</td>
<td>Real Consumption (Wh)</td>
<td>Motor Consumption (Wh)</td>
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<tr>
<td>Real Input Energy (kWh)</td>
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<td>Motor Consumption (kWh)</td>
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<tr>
<td>Real Input Energy (MWh)</td>
<td>Real Consumption (MWh)</td>
<td>Motor Consumption (MWh)</td>
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<tr>
<td>Real Input Energy (GWh)</td>
<td>Real Consumption (GWh)</td>
<td>Motor Consumption (GWh)</td>
<td>Money Saved</td>
</tr>
<tr>
<td>Real Input Energy (TWh)</td>
<td>Real Consumption (TWh)</td>
<td>Motor Consumption (TWh)</td>
<td>CO2 Saved</td>
</tr>
</tbody>
</table>

### 4.2 Pump Dashboard

#### Pump Follow Up
- Pump follow up
- Nb of start
- Motor Run Time
- Energy Cons. Ind.
- Energy Perf. Ind.
- Efficiency
- Highest Eff
- Lowest Eff

#### Process
- Application State
- PID Reference
- Installation Flow
- Inlet Press. Value
- Outlet Pressure
- Total Quantity
- Highest Flow
- Lowest Flow

#### Graphics
- Power vs. Flow
- Head vs. Flow
- Efficiency vs. Flow
- Power vs. Speed

### 4.3 Pump Parameters

<table>
<thead>
<tr>
<th>Motor Run Time</th>
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</thead>
<tbody>
<tr>
<td>Motor Mechanical Speed</td>
</tr>
<tr>
<td>Nb of Start</td>
</tr>
<tr>
<td>Acv Elc out pwr estm</td>
</tr>
<tr>
<td>Installation Flow</td>
</tr>
<tr>
<td>Inlet Press. Value</td>
</tr>
<tr>
<td>Outlet Pressure</td>
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<tr>
<td>Total Quantity</td>
</tr>
<tr>
<td>Efficiency</td>
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<tr>
<td>Energy Cons. Ind.</td>
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<tr>
<td>Energy Perf. Ind.</td>
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<tr>
<td>Highest Flow</td>
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<tr>
<td>Lowest Flow</td>
</tr>
<tr>
<td>Highest Eff</td>
</tr>
<tr>
<td>Lowest Eff</td>
</tr>
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</table>

### 4.4 Motor Parameters

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<td>Motor Power</td>
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<tr>
<td>Motor Torque</td>
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<tr>
<td>Motor Current</td>
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<tr>
<td>Motor Therm State</td>
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### 4.5 Drive Parameters

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<td>Ref. Frequency</td>
</tr>
<tr>
<td>Ref. Frequency</td>
</tr>
<tr>
<td>Motor Frequency</td>
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<tr>
<td>Multiplying Coeff.</td>
</tr>
<tr>
<td>Mains Voltage</td>
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<tr>
<td>DC Bus Voltage</td>
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<td>Drive Therm State</td>
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### 4.6 Thermal Monitoring

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<td>A14 Th Value</td>
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<td>A15 Th Value</td>
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### 4.7 PID Display

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<td>PID Reference</td>
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<td>PID Feedback</td>
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<td>PID Error</td>
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<td>PID Output</td>
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### 4.8 Counter Management

<table>
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<th>Motor Run Time</th>
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<tr>
<td>Power-on Time</td>
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<tr>
<td>Fan Operation Time</td>
</tr>
<tr>
<td>Nb of start</td>
</tr>
<tr>
<td>Time Counter Reset</td>
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</tbody>
</table>