

User Interface Guide



Control panel

1. Status light
2. Local / remote
3. Status icons
4. Reference value
5. Actual value
6. Back / Options
7. Stop
8. Edit value / Move in menus
9. OK / Select / Save / Menu
10. Start



Status light

- green, steady: OK
- green, blinking: Warning
- red, steady: Fault
- red, blinking: Fault, turn power off to reset

🔧 Options

1. Control location
2. Active fault
3. Active warnings
4. Forward / Reverse
5. Reference



🏔 Motor control

1. Start mode
6. Deceleration time
7. Max. allowed current



2. Acceleration time

3. Max. allowed speed



4. Min. allowed speed
5. Stop mode



⚡ Motor data

1. Motor type
 - AsynM
 - PMSM
 - SynRM
2. Nominal power
3. Nominal voltage
4. Nominal speed
5. Phase order Change direction without reconnecting motor cables
6. Unit selection
7. Control mode Scalar or vector
8. Nominal current
9. Nominal frequency
10. Nominal torque
11. Nominal cos phi

1 AsynM	Scalar	7
2 0.75kW	1.90A	8
3 400.0V	50.0Hz	9
4 1460rpm	50.0Nm	10
5 UVW	Cosφ 0.00	11
6 50 Hz, kW, °C		

🔍 Diagnostics

1. Active fault
2. Active warnings
3. Fault history
4. Connection status



⚡ Energy efficiency

1. Saved energy in kWh
2. Saved energy in MWh
3. Cost per kWh
4. Saved money
5. Saved money x1000



⚙️ Parameters

Direct access to all functions (advanced)

1. Complete list
2. Reset to factory defaults
3. Modified only



I/O Control macros

The menu content depends on the installed extension module.

I/O control:

1. I/O control macro



Fieldbus control:

1. Protocol EthernetIP
2. Address settings 192.168.0.128 Subnet /23

I/O control macros

1 2 Standard (2-wire)

- AI1: Reference
DI1: Start / Stop
DI2: Forward / Reverse
DI3: Constant speed sel1
DI4: Constant speed sel2
DIO1: Ramp pair selection
DIO2: Ready run

1 2 ABB limited 2-wire

- Integrated panel: Reference
DI1: Start / Stop
DI2: Constant speed sel1

For the full manual, go to:



1 2 Alternate

- AI1: Reference
DI1: Start forward
DI2: Start reverse
(if DI1 = DI2, stop)
DI3: Constant speed sel1
DI4: Constant speed sel2
DIO1: Ramp pair selection
DIO2: Ready run

1 2 Motor potentiometer

- DI1: Start / Stop
DI2: Forward / Reverse
DI3: Reference up
DI4: Reference down
DIO1: Constant sel1
DIO2: Ready run

PID PID

- AI1: Setpoint
AI2: Feedback
DI1: Start / Stop
DI2: Constant setpoint 1
DI3: Constant setpoint 2
DI4: Constant speed 1
DIO1: Ramp pair selection
DIO2: Ready run

Fieldbus control macros

CanOpen CANopen

EtherCAT EtherCAT

Profibus PROFIBUS

ProfinetIO Profinet

EthernetIP Ethernet/IP

Modbus TCP Modbus TCP

Modbus RTU Modbus RTU

Start/stop/reference from the fieldbus

- DI1: Fault reset
DI2: Not configured

Warnings/Faults

Warning Fault Description

- Ⓐ A2A1 ⚫ 2281 Warning: Current calibration is done at the next start.
Fault: Output phase current measurement fault
- Ⓐ A2B1 ⚫ 2310 Overcurrent. The output current is more than the internal limit. This can be caused by an earth fault or phase loss.
- Ⓐ A2B3 ⚫ 2330 Earth leakage. A load unbalance that is typically caused by an earth fault in the motor or the motor cable.
- Ⓐ A2B4 ⚫ 2340 Short circuit. There is a short circuit in the motor or the motor cable.
- 3130 Input phase loss. The intermediate DC circuit voltage oscillates.
- 3181 Cross connection. The input and motor cable connections are incorrect.
- Ⓐ A3A1 ⚫ 3210 DC link overvoltage. There is an overvoltage in the intermediate DC circuit.
- Ⓐ A3A2 ⚫ 3220 DC link undervoltage. There is an undervoltage in the intermediate DC circuit.
- 3381 Output phase loss. All three phases are not connected to the motor.
- Ⓐ A5A0 ⚫ 5091 Safe torque off. The Safe torque off (STO) function is on.
- Ⓐ AFF6 ⚫ Identification run. The motor ID run occurs at the next start.
- FA81 Safe torque off 1. The Safe torque off circuit 1 is broken.
- FA82 Safe torque off 2. The Safe torque off circuit 2 is broken.