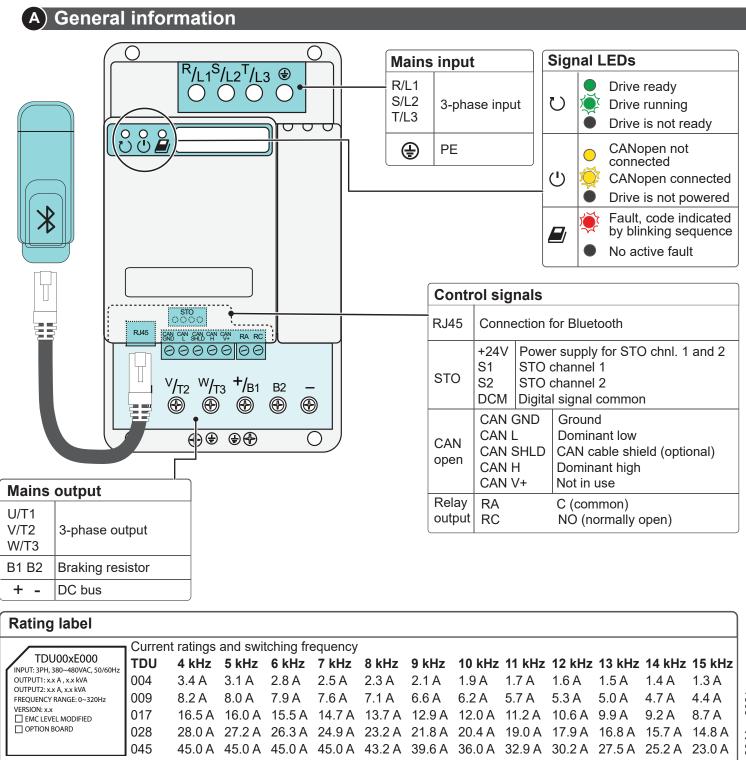
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QUICK INSTALLATION GUIDE

Frequency converter ControlMaster Edge



Disclaimer: Person conducting this work must be appropriately trained and familiar with product range and related safety instructions. This guick guide only complements original instructions and does not replace them.



Note: In case of product reclamation, include the following information:

Type, serial number, fault code (if applicable), application (hoist/travel), how problem appears (e.g. fault code F001 during acceleration).

If any problems or malfunctions occur during commissioning, refer to the troubleshooting section in the service instructions, to find out the reason. Make sure all problems are solved before you continue operation.



B) Installation



High voltages inside the device.

Wait at least 5 min after the mains input voltage has been switched off before service actions.

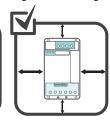
When signal LEDs are on there is dangerous voltage on the DC bus.

When signal LEDs turns off, the DC bus voltage is about 100 V.

Note that there is a dangerous voltage in the braking resistor when DC bus is charged.











Preparations

- Check that the delivery corresponds to the order.
- 2. Read the safety instructions.
- 3. Check the clearances around device carefully.
- 4 Check ambient conditions.
- 5. Check sizes of motor cable, the control wires etc.
- Check control wirings.

Parameters and commissioning

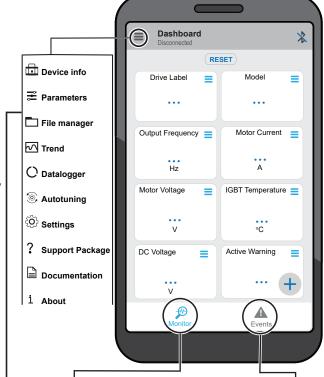
- Switch on mains power, release emergency stop button, and press start pushbutton.
- 2. To check parameters establish connection between device and TD DriveTool app.

NOTE: Usually, the parameters are properly set after factory tests and no adjustments are needed.

- Compact brake motors for traveling (MF06MA, MF06LA) See the motor parameter values from Service Instruction.
- Other motors for traveling
- Check parameters 01-00...01-06, and 00-01.
- Perform automatic tuning with TD Drive Tool 2.
- All motors for lifting

See the motor parameter values from Service Instruction.

NOTE: Use only pre-defined motors with factory tested parameter values.



Parameters

03-05 U/f Mid Freq

00-00	User Role Key	03-06	Motor Rs
00-01	Drive Selection	03-07	Motor Rr
00-02	Accel Time	03-08	Motor Lm
00-03	Decel Time	03-09	Motor Lx
00-04	Min Frequency	03-10	System Inertia
00-05	Max Frequency	03-11	ASR1/2 Switch F
01-00	Motor Nom Volt	03-12	ASR Zero-Speed
01-01	Motor Nom Freq	03-13	ASR1 Low-Speed
01-02	Motor Nom Curr	03-14	ASR2 High-Speed
01-03	No-Load Current	04-00	DI1 Function
01-04	Motor Cos Phi	04-05	DI6 Function
01-05	Motor Nom Power	05-00	Ramp Stretching
01-06	Motor Nom Speed	05-01	Flux Brake
01-08	Start Current	05-02	Slowdown Mode
02-00	Brake Open Delay	05-03	Brake Chopper
02-01	Start DC Time	06-00	Node ID
02-02	Start Frequency	06-01	CAN Speed
02-03	Load Floating Time	06-02	Control Place
03-00	ESR mode	06-03	Process Data 1
03-01	ESR Max Freq	06-09	Process Data 7
03-02	Ramp Scale Freq	07-00	Switching Freq
03-03	U/f Zero Freq Volt	08-00	F#1 Fault Record
03-04	U/f Mid Voltage	08-09	F#10 Fault Record

Monitoring values

Output frequency Output frequency to the

Motor current Output current to the induction

Motor voltage Output voltage to the motor

IGBT Internal temperature of IGBT

temperature module

DC voltage Inverter DC-link voltage

Freq reference Frequency reference

Freq command Frequency command from a

radio or a pendant controller

STO input Safe torque off input status

RO status Status of relay output DI status Status of digital input

CANopen SW Status word of CANopen

CANopen CW Control word of CANopen

Active Warning Code of active warning **Active Fault** Code of active fault

Drive Label Drive label code of the connected frequency converter

Events

Common fault codes

=003 =006	Over current Over current
-007 -010	Overvoltage Overvoltage
=011 =014	Undervoltage Undervoltage
=140 =141	Ground fault Ground fault
-200	CANopen communication
-201	Motor overtemperature
-202	Both directions fault
-203	Ramp supervision
-204	Parameter fault
-205	Parameter fault

Over current

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