CREC, CRIEC, CRNEC, MTREC, CMEC

Supplement to Installation and Operating Instructions

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General information

These installation and operating instructions are a supplement to the installation and operating instructions manual for standard CREC, CRIEC, MTREC, CMEC pumps.
(Publication No. 99955183 and 92564852)

This supplement is valid for 3 x 200-240V motor

For use in APAC only

CREC, CRIEC, CRNEC, MTREC, CMEC

English (GB)

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7.2 Cable requirements

7.2.1 Cable cross-section

DANGER

Electric shock

Death or serious personal injury

- Always comply with local regulations as to cable cross-sections.

3 x 200-240 V

Power [kW]	Conductor type	Cross section	
		[mm^2]	[AWG]
0.25 - 2.2	Solid	1.5 - 10	16-8
	Stranded	1.5 - 10	16-8
3.0 - 5.5	Solid	2.5 - 10	14-8
	Stranded	2.5 - 10	14-8

7.3 Mains supply

DANGER

Electric shock

Death or serious personal injury

- Use the recommended fuse size. See section *22. Technical data, three-phase motors*.

7.3.1 Three-phase supply voltage

Three-phase motors are available for the voltages below:

- 3 x 200-240 V - 10 %/+ 10 %, 50/60 Hz, PE

Check that the supply voltage and frequency correspond to the values stated on the nameplate.

The wires in the motor terminal box must be as short as possible. Excepted from this is the separated protective-earth conductor which must be so long that it is the last one to be disconnected in case the cable is inadvertently pulled out of the cable entry.

In order to avoid loose connections, make sure that you have pressed home the terminal block for L1, L2 and L3 in its socket when you connect the supply cable.

For maximum backup fuse, see section *22. Technical data, three-phase motors*.

Motors cannot be supplied through an IT network.

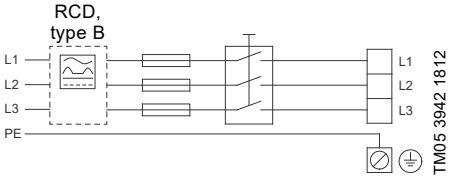


Fig. 4 Example of a mains-connected motor with main switch, backup fuses and additional protection

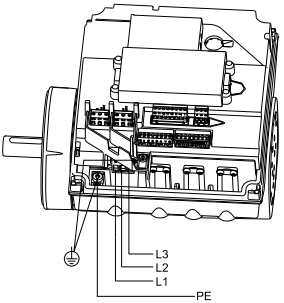


Fig. 5 Mains connection, three-phase motors

7.5 Connection terminals (for 1.1kW to 1.5kW models)

The descriptions and terminal overviews in this section apply to three-phase motors.

For maximum torques, see section *Torques*, page 34.

7.5.1 Connection terminals

The pump has these connections:

- one analog input
- three digital input
- two signal relay output
- GENIbus connection.

Digital input 1 is factory-set to be start-stop input where open circuit results in stop. A jumper has been factory-fitted between terminals 2 and 6. Remove the jumper if digital input 1 is to be used as external start-stop or any other external function.

DANGER

Electric shock

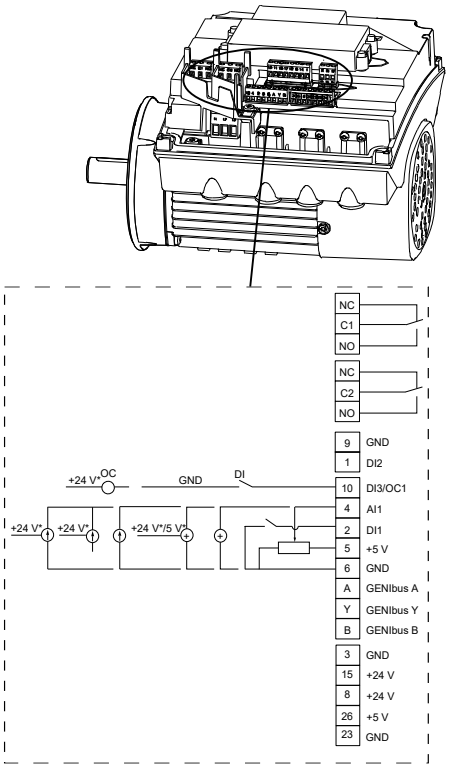
Death or serious personal injury

- Make sure that the wires to be connected to the connection groups below are separated from each other by reinforced insulation in their entire lengths.

- Inputs and outputs

All inputs and outputs are internally separated from the mains-conducting parts by reinforced insulation and galvanically separated from other circuits. All control terminals are supplied by protective extra-low voltage (PELV), thus ensuring protection against electric shock.

- Signal relay output
  - Signal relay 1 and 2:
    LIVE:
    You can connect supply voltages up to 250 VAC to the output.
    PELV:
    The output is galvanically separated from other circuits. Therefore, you can connect the supply voltage or protective extra-low voltage to the output as desired.
- Mains supply (terminals N, PE, L or L1, L2, L3, PE).



* If you use an external supply source, there must be a connection to GND.

Fig. 6 Connection terminals

Terminal	Type	Function
NC	Normally closed contact	Signal relay 1 (LIVE or PELV)
C1	Common	
NO	Normally open contact	
NC	Normally closed contact	Signal relay 2 (LIVE or PELV)
C1	Common	
NO	Normally open contact	
9	GND	Ground
1	DI2	Digital input, configurable
10	DI3	Digital input, configurable
4	AI1	Analog input: 0-20 mA / 4-20 mA 0.5 - 3.5 V / 0-5 V / 0-10 V
2	DI1	Digital input, configurable
5	+5 V	Supply to potentiometer and sensor
6	GND	Ground
A	GENIbus, A	GENIbus, A (+)
Y	GENIbus, Y	GENIbus, GND
B	GENIbus, B	GENIbus, B (-)
3	GND	Ground
15	+24 V	Supply
8	+24 V	Supply
26	+5 V	Supply to potentiometer and sensor
23	GND	Ground

7.5 Connection terminals (for 2.2 kW to 3 kW models)

The descriptions and terminal overviews in this section apply to three-phase motors.

For maximum torques, see section *Torques*, page 34.

7.5.1 Connection terminals

The pump has these connections:

- one analog input
- three digital input
- two signal relay output
- GENIbus connection.
- Bluetooth (BLE) connection

Digital input 1 is factory-set to be start-stop input where open circuit results in stop. A jumper has been factory-fitted between terminals DI1 and GND. Remove the jumper if digital input 1 is to be used as external start-stop or any other external function.

DANGER

Electric shock

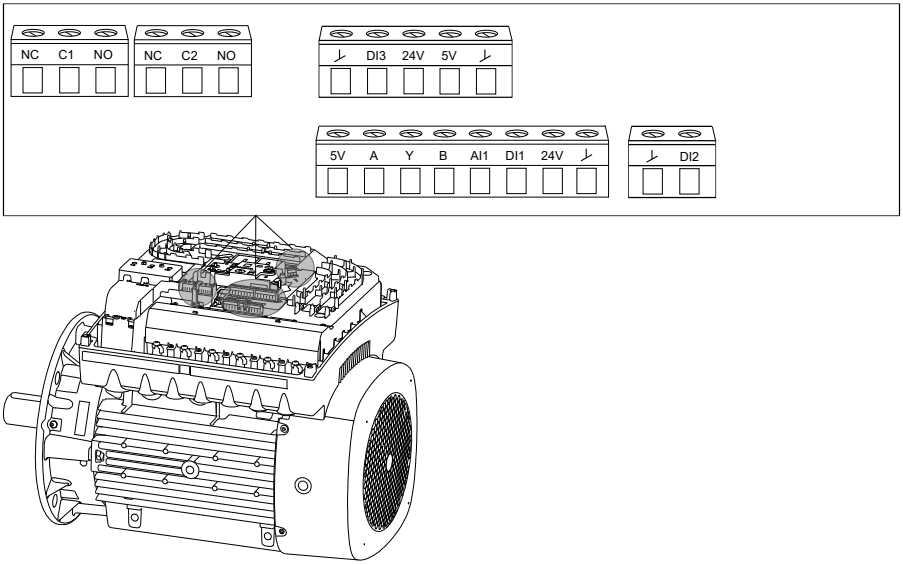
Death or serious personal injury

- Make sure that the wires to be connected to the connection groups below are separated from each other by reinforced insulation in their entire lengths.

- Inputs and outputs

The inputs and outputs are internally separated from the power supply-conducting parts by reinforced insulation
and galvanically separated from other circuits. All control terminals are supplied with safety extra-low voltage
(SELV), ensuring protection against electric shock. Cables for the relays must be double insulated or reinforced and rated at least 250V/2A.

- Signal relay output
  - Signal relay 1 and 2:
    LIVE:
    You can connect supply voltages up to 250 VAC to the output.
    SELV:
    The output is galvanically separated from other circuits. Therefore, you can connect the supply voltage or protective extra-low voltage to the output as desired.
- Mains supply (terminals N, PE, L or L1, L2, L3, PE).



* If you use an external supply source, there mustbe a connection to GND.

Fig. 6 Connection terminals

Terminal	Type	Function
NC	Normally closed contact	Signal relay 1: LIVE or SELV
C1	Common	
NO	Normally open contact	
NC	Normally closed contact	Signal relay 2: SELV only
C2	Common	
NO	Normally open contact	
GND	GND	Signal ground
DI3	DI3/OC1	Digital input/output, configurable Open collector: Maximum 24 V resistive or inductive
24V	+24 V	Power supply
5V	+5 V	Power supply to a potentiometer or sensor
GND	GND	Signal ground

Terminal	Type	Function
5V	+5 V	Power supply to a potentiometer or sensor
A	GENIbus, A	GENIbus, A (+) / Modbus, D1 (+)
Y	GENIbus, Y	GENIbus, GND / Modbus, GND
B	GENIbus, B	GENIbus, B (-) / Modbus, D0 (-)
AI1	AI1	Analog input: • 0-20 mA or 4-20 mA • 0.5 - 3.5 V, 0-5 V or 0-10 V.
DI1	DI1	Digital input, configurable Digital input 1 is factory-set to be start or stop input where an open circuit results in stop. A jumper has been factory-fitted between terminals DI1 and GND. Remove the jumper if digital input 1 is to be used as external start or stop or any other external function.
24V	+24 V	Power supply
GND	GND	Signal ground
GND	GND	Signal ground
DI2	DI2	Digital input, configurable

8. Operating conditions

8.1 Maximum number of starts and stops

The number of starts and stops via the power supply must not exceed four times per hour.

When switched on via the power supply, the pump starts after approximately 5 seconds.

If a higher number of starts and stops is desired, use the input for external start-stop when starting/stopping the pump.

When started via an external on/off switch, the pump starts immediately.

8.2 Ambient temperature

8.2.1 Ambient temperature during storage and transportation

Minimum: -30 °C

Maximum: 60 °C.

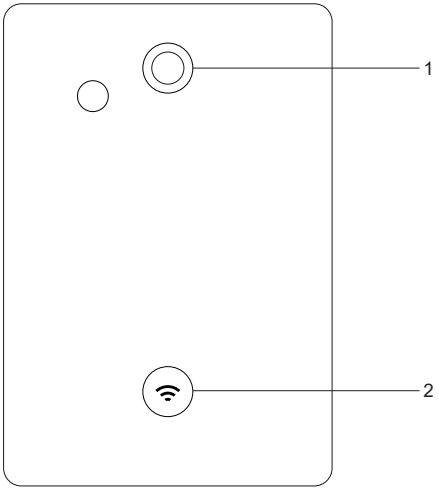
8.2.2 Ambient temperature during operation

	3 x 200-240 V
Minimum	-20 °C
Maximum	40 °C

The motor can operate with the rated power output (P2) at 40 °C, but continuous operation at higher temperatures reduces the expected product life.

10. Basic operating panel

The pumps are fitted with this operating panel as standard.



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Pos.	Symbol	Description
1		**Grundfos Eye:** The indicator light shows the operating status of the product.
2		**Communication:** The button enables communication with Grundfos GO and other products of the same type.

11. Grundfos GO Remote (For 1.1kW to 1.5kW models)

The pump is designed for wireless radio or infrared communication with Grundfos GO Remote.

Grundfos GO Remote enables setting of functions and gives access to status overviews, technical product information and actual operating parameters.

Grundfos GO Remote offers the following mobile interfaces (MI).

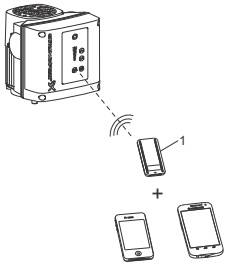

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Fig. 13 Grundfos GO Remote communicating with the pump via radio or infrared connection (IR)

Pos.	Description
1	Grundfos MI 301: Separate module enabling radio or infrared communication. You can use the module in conjunction with an Android or iOS-based smart device with Bluetooth connection.

11.1 Communication

When Grundfos GO Remote initiates communication with the pump, the indicator light in the middle of Grundfos Eye flashes green. See section *15. Grundfos Eye*.

Establish communication using one of these communication types:

- radio communication
- infrared communication.

11.1.1 Radio communication

Radio communication can take place at distances up to 30 m. The first time Grundfos GO Remote communicates with the pump, you must enable communication by pressing (WiFi) or OK on the pump operating panel. Later when communication takes place, the pump is recognised by Grundfos GO Remote and you can select the pump from the "List" menu.

11.1.2 Infrared communication

When communicating via infrared light, Grundfos GO Remote must be pointed at the pump operating panel.

11.1.3 Startup guide

The first time Grundfos GO Remote communicates with the pump, the startup guide starts to guide you through the settings needed for the product to operate in the given application. When the startup guide has been completed, the pump is ready for operation.

11.2 Menu overview for Grundfos GO Remote (for 1.1kW to 1.5kW models)

Dashboard	**CMEC, CREC, CRIEC, CRNEC, MTREC**
	●

"Status"	**CMEC, CREC, CRIEC, CRNEC, MTREC**
"Resulting setpoint"	●
"Actual controlled value"	●
"Motor speed"	●
"Power consumption"	●
"Energy consumption"	●
"Operating hours"	●
"Analog input 1"	●
"Digital input 1"	●
"Digital input 2"	●
"Digital input 3"	●
"Fitted modules"	●

"Settings"	CMEC, CREC, CRIEC, CRNEC, MTREC	Section	Page
"Setpoint"	●	*12.1 Setpoint*	17
"Operating mode"	●	*12.2 Operating mode*	17
"Set user-defined speed"	●	*12.4 "Set user-defined speed"*	17
"Control mode"	●	*12.5 "Control mode"*	17
"Stop function"	●	*12.11 "Stop function" (Low-flow stop function)*	22
"Controller"	●	*"Controller" (Controller settings)*	20
"Operating range"	●	*12.9 Operating range*	21
"Ramps"	●	*12.12 Ramps*	24
"Number"	●	*12.14 ""Number" (Pump number)*	24
"Radio communication"	●	*12.15 "Radio communication" (Enable/disable radio comm.)*	24
"Analog input 1"	●	*12.6 Analog inputs*	18
"Digital input 1"	●	*12.7 Digital inputs*	19
"Digital input 2"	●	*12.7 Digital inputs*	19
"Digital input 3"	●	*12.7 Digital inputs*	19
"Predefined setpoint"	●	*12.25 Predefined setpoints*	18*
"External setpoint funct."	●	*12.10 External setpoint function*	21
"Signal relay 1"	●	*12.8 Signal relays (Relay outputs)*	20
"Signal relay 2"	●	*12.8 Signal relays (Relay outputs)*	20
"Alarm handling"	●	*12.13 Alarm handling*	24
"Service"	●	*12.14 ""Number" (Pump number)*	24
"Recall settings"	●	*12.17 "Recall settings" (Recall stored settings)*	24
"Undo"	●	*12.17.1 "Undo"*	24
"Pump name"	●	*12.18 "Pump name"*	24
"Connection code"	●	*12.19 "Connection code"*	25
"Unit configuration"	●	*12.16 "Unit configuration" (Units)*	24

"Alarms and warnings"	CMEC, CREC, CRIEC, CRNEC, MTREC	Section	Page
"Alarm log"	●	*12.20 Alarm log*	25
"Warning log"	●	*12.21 Warning log*	25
"Reset alarm" button	●		

"Assist"	CMEC, CREC, CRIEC, CRNEC, MTREC	Section	Page
"Assisted pump setup"	●	*12.23 Assisted pump setup*	25
"Assisted fault advice"	●	*12.24 Assisted fault advice*	25

Note:
"*": Page number refers to this document

11. Grundfos GO (For 2.2kW to 3kW models)

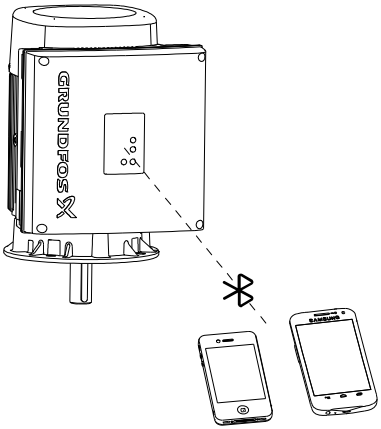
CAUTION
Radiation
Minor or moderate personal injury

- Locate the product at a minimum distance of 20 cm from any body parts. Human tissue may be heated by RF energy.

Installers and end users must be provided with these installation and operating instructions and operating conditions for satisfying RF exposure compliance.

The product is designed for wireless communication with Grundfos GO using Bluetooth (BLE).

Grundfos GO enables you to set functions and gives you access to status overviews, technical product information and current operating parameters.



11.1 Communication

When Grundfos GO initiates communication with the product, the indicator light in the centre of Grundfos Eye flashes green.

On products fitted with the HMI 100 or 200 operating panel, you can enable communication by pressing the **Communication** button.

On products fitted with the HMI 300 operating panel, the display indicates that a wireless device is trying to connect to the product. Press **OK** on the operating panel to connect the product with Grundfos GO, or press the **Home** button to reject connection.

Symbol	Description
OK	Press **OK** on the operating panel to connect the product with Grundfos GO.
	Press the **Home** button to reject connection.

11.1.1 Bluetooth communica tion

Bluetooth communication can take place at distances up to 10 m. The first time Grundfos GO communicates with the product, you enable communication by pressing the **Communication** button or **OK** on the operating panel.

Later when communication takes place, the product is recognised by Grundfos GO, and you can select the product from the **List** menu.

11.2 Menu overview for Grundfos GO (for 2.2kW to 3kW models)

Dashboard	CMEC, CREC, CRIEC, CRNEC, MTREC
	●

"Status"		CMEC, CREC, CRIEC, CRNEC, MTREC
Pump and application		
	Actual controlled value	●
	Resulting setpoint	●
	Energy consumption	●
	Power consumption	●
	Motor speed	●
Operating Log		
	Operating hours	●
Inputs/outputs		
	Analog input 1	●
	Digital input 1	●
	Digital input 2	●
	Digital input/output 3	●
Fitted modules		
	CIM module	●
	Operating panel	●

"Settings"	CMEC, CREC, CRIEC, CRNEC, MTREC	Section	Page
"Setpoint"	●	*12.1 Setpoint*	17
"Operating mode"	●	*12.2 Operating mode*	17
"Set user-defined speed"	●	*12.4 "Set user-defined speed"*	17
"Control mode"	●	*12.5 "Control mode"*	17
"Stop function"	●	*12.11 "Stop function" (Low-flow stop function)*	22
"Controller"	●	*"Controller" (Controller settings)*	20
"Operating range"	●	*12.9 Operating range*	21
"Ramps"	●	*12.12 Ramps*	24
"Number"	●	*12.14 ""Number" (Pump number)*	24
"Radio communication"	●	*12.15 "Radio communication" (Enable/disable radio comm.)*	24
"Analog input 1"	●	*12.6 Analog inputs*	18
"Digital input 1"	●	*12.7 Digital inputs*	19
"Digital input 2"	●	*12.7 Digital inputs*	19
"Digital input 3"	●	*12.7 Digital inputs*	19
"Predefined setpoint"	●	*12.25 Predefined setpoints*	18*
"External setpoint funct."	●	*12.10 External setpoint function*	21
"Signal relay 1"	●	*12.8 Signal relays (Relay outputs)*	20
"Signal relay 2"	●	*12.8 Signal relays (Relay outputs)*	20
"Alarm handling"	●	*12.13 Alarm handling*	24
"Service"	●	*12.14 ""Number" (Pump number)*	24
"Recall settings"	●	*12.17 "Recall settings" (Recall stored settings)*	24
"Undo"	●	*12.17.1 "Undo"*	24
"Pump name"	●	*12.18 "Pump name"*	24
"Connection code"	●	*12.19 "Connection code"*	25
"Unit configuration"	●	*12.16 "Unit configuration" (Units)*	24

"Alarms and warnings"	CMEC, CREC, CRIEC, CRNEC, MTREC	Section	Page
"Alarm log"	●	*12.20 Alarm log*	25
"Warning log"	●	*12.21 Warning log*	25
"Reset alarm" button	●		

"Assist"	CMEC, CREC, CRIEC, CRNEC, MTREC	Section	Page
"Assisted pump setup"	●	*12.23 Assisted pump setup*	25
"Assisted fault advice"	●	*12.24 Assisted fault advice*	25

Note:
"*": Page number refers to this document

12.25 Predefined setpoints

You can set and activate three predefined setpoints by combining the input signals to digital inputs 2, 3 as shown in the table below.

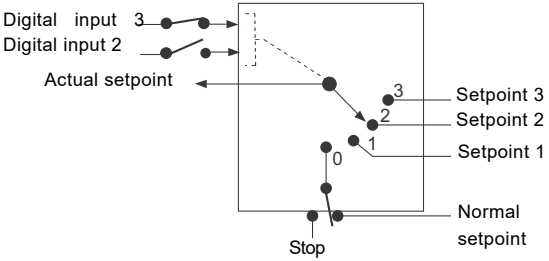
Set the digital inputs 2, 3 to "Predefined setpoints" if all three predefined setpoints are to be used. You can also set one or two of the digital inputs to "Predefined setpoints" but this will limit the number of predefined setpoints available.

Digital inputs		Setpoint
2	3	
0	0	Normal setpoint or stop
1	0	Predefined setpoint 1
0	1	Predefined setpoint 2
1	1	Predefined setpoint 3

0 = Open contact
1 = Closed contact

Example

Figure below shows how you can use the digital inputs to set up seven predefined setpoints. Digital input 2 is open and digital inputs 3 is closed. If you compare with the table above, you can see that "Predefined setpoint 2" is activated.



Principle sketch showing how predefined setpoints function

If all digital inputs are open, the pump will either stop or run at the normal setpoint. Set the desired action with Grundfos GO or with the advanced control panel.

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