

CRE, CRIE, CRNE, SPKE, MTRE, BMS

E-pumps with MGE Model K motor

Safety instructions and other important information



**CRE, CRIE, CRNE, SPKE, MTRE,
BMS**

Safety instructions

Other languages

<http://net.grundfos.com/qr/i/92898130>

CRE, CRIE, CRNE, SPKE, MTRE, BMS

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English (GB) Safety instructions

1. Original safety instructions

These safety instructions give a quick overview of the safety precautions to be taken in connection with any work on this product. Observe these safety instructions during handling, installation, operation, maintenance, service and repair of this product. These safety instructions are a supplementary document, and all safety instructions will appear again in the relevant sections of the installation and operating instructions. Keep these safety instructions at the installation site for future reference.

2.2 Hazard statements

The symbols and hazard statements below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.



WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.



CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

The hazard statements are structured in the following way:



SIGNAL WORD

Description of the hazard

Consequence of ignoring the warning

- Action to avoid the hazard.

2.3 Notes

The symbols and notes below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



Observe these instructions for explosion-proof products.



A blue or grey circle with a white graphical symbol indicates that an action must be taken.



A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.



If these instructions are not observed, it may result in malfunction or damage to the equipment.



Tips and advice that make the work easier.

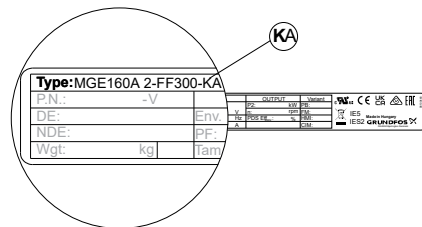
3.2 Intended use of the product

Only use the product according to the specifications stated in the installation and operating instructions.

3.3.2 Identification of the motor model

Identify the motor by means of the nameplate on the terminal box.

Model K



TM083907

Motor [kW]	3 x 380-480 V		3 x 400-480 V
	1450-2200 rpm	2900-4000 rpm	3500-4000 rpm
11	•	-	-
15	•	•	-
18.5	•	•	-
22	•	•	-
26	-	-	•

3.4 Radio module

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 incorporates a class 1 radio module for remote control. You can use the module anywhere in the EU without restrictions.

For installation in the USA and Canada, see the appendix.

Via the built-in radio module, the product can communicate with other MGE motors.



The product contains a class 1 radio. Grundfos will support the product with security updates for at least 2 years from production of the unit.

3.5 Bluetooth

The product incorporates a Bluetooth (BLE) module for remote control. You can use the module anywhere in the EU without restrictions.

For installation in the USA and Canada, see the appendix.

Via the built-in Bluetooth module, the product can communicate with Grundfos GO.



The product contains a Bluetooth (BLE) module. Grundfos will support the product with security updates for at least 2 years from production of the unit.

Bluetooth information

Frequency of operation	2400 - 2483.5 MHz
Modulation type	GFSK
Data rate	2 Mbps
Transmit power	5 dBm EIRP with internal antenna

GLoWpan information

Frequency of operation	2405-2480 MHz
Modulation type	GP O-QPSK
Data rate	1 Mbps
Transmit power	5 dBm EIRP with internal antenna

3.6 Battery

A Li-ion battery is fitted in the FM310 and FM311 functional modules.

The Li-ion battery complies with the Battery Directive (2006/66/EC). The battery does not contain mercury, lead or cadmium.

WARNING

Intoxication or risk of chemical burn

Death or serious personal injury



- The battery can cause severe or fatal injuries in 2 hours or less if it is swallowed or placed inside any part of the body. In such an event, seek medical attention immediately.

- The replacement or servicing of batteries must be carried out by a qualified person.
- The battery contained within this product, whether new or used, is hazardous and is to be kept away from children.



3.7 Safe Torque Off (STO) function

Safe Torque Off (STO) is a safety function with the purpose to stop the motor from turning, without actively braking it. It follows the definition by EN61800-5-2.

For instructions on how to activate and operate the Safe Torque Off (STO) function, read these installation and operating instructions.



Safe Torque Off

Installation and operating instructions

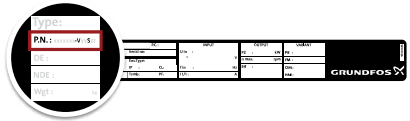
<http://net.grundfos.com/qri/92916582>

3.7.1 Identification of the Safe Torque Off (STO) function

The version of the Safe Torque Off (STO) function is marked on the nameplate, after the product version number.

The Safe Torque Off (STO) functionality is only available for MGE, MLE motors having an STO version number.

The Safe Torque Off (STO) version number is shown below as **Szz**, where **zz** marks the version. For product without STO the **zz** segment will be blank.



The Safe Torque Off (STO) safety function cannot be retrofitted to older motors.

QR92916582

TM084339

4.1 Transporting the product



WARNING
Falling objects

Death or serious personal injury

- Secure the product during transport to prevent it from tilting or falling down.



CAUTION
Back injury

Minor or moderate personal injury

- Use lifting equipment.



CAUTION
Crushing of feet

Minor or moderate personal injury

- Wear safety shoes when moving the product.

4.3 Lifting the product



WARNING
Falling objects

Death or serious personal injury

- Use lifting equipment rated for the weight of the product.
- Attach lifting equipment to the motor eyebolts to lift the entire product.
- Wear personal protective equipment.
- Keep a safe distance to the product during lifting operations.
- Follow the lifting instructions for the product.



WARNING
Back injury

Death or serious personal injury

- Use lifting equipment and follow local regulations when lifting the product.



Observe local regulations concerning limits for manual lifting or handling. Calculate the total weight of the pump with motor by adding the weights stated on the pump and motor nameplates.



Do not lift the product by the terminal box.



Note that typically the center of gravity of the pump is close to the motor.



For lifting instructions, see the related installation and operating instructions for the pump.

5.1 Installing the product outdoors or in areas with high humidity



WARNING
Fire hazard

Death or serious personal injury

- In high humidity environments where condensation can occur, connect the product permanently to the mains supply and activate the standstill heating function.



To maintain the cURus mark, additional requirements apply to the equipment. See the appendix concerning installation in the USA and Canada.



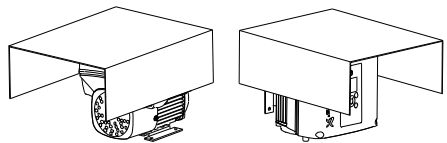
Do not expose the product to UV radiation.

If you install the product outdoors or in areas with a high humidity, take the following action to avoid condensation on the electronic components.

- Provide the product with a suitable cover.
The cover must be large enough to ensure that the product is not exposed to direct sunlight, UV radiation, rain or snow. Grundfos does not supply covers.



When fitting a cover to the product, observe the instructions for adequate cooling.



- Open the drain holes in the product.



When you open the drain hole, the enclosure class of the motor will be lower than standard.

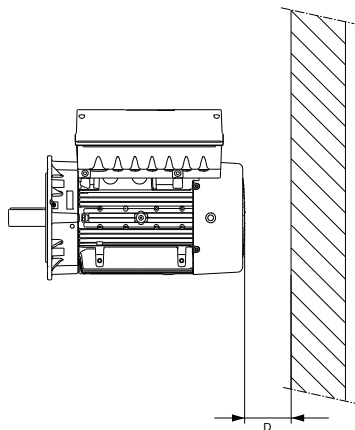
- Connect the product permanently to the mains supply. In areas with a high humidity, activate the built-in standstill heating function.



If you install the motor in moist surroundings or areas with a high humidity, ensure that the bottom drain hole is open. As a result, the motor becomes self-venting, allowing water and humid air to escape. When you open the drain hole, the enclosure class of the motor will be lower than standard.

5.3.1 Cooling the motor

- Install the motor allowing a distance of minimum 50 mm (D) between the end of the fan cover and the wall or another fixed object.



TMD02853

Model K

- Position the product with sufficient space around.
- Make sure that the temperature of the cooling air does not exceed 50 °C.
- Keep cooling fins and fan blades clean.

6.1 Mounting the product

WARNING Crushing of feet

Death or serious personal injury



- Fasten the pump securely to a solid and even foundation according to the specifications in the installation and operating instructions for the pump.
- Follow the lifting instructions.

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.



Installation-related work on the product must only be performed by qualified persons.



For lifting instructions, see the related installation and operating instructions for the pump.



To maintain the cURus mark, additional requirements apply to the equipment.

6.1.2 Changing the position of the operating panel

WARNING Electric shock

Death or serious personal injury



- Switch off the power supply to the product including the power supply for the signal relays. Wait at least 5 minutes before you make any connections in the terminal box.

7. Electrical connection

WARNING Electric shock

Death or serious personal injury



- Switch off the power supply to the product including the power supply for the signal relays. Wait at least 5 minutes before you make any connections in the terminal box. Make sure that the power supply cannot be switched on accidentally.
- Check that the supply voltage and frequency correspond to the values stated on the nameplate.
- Connect the pump to an external power switch close to the pump and to a motor-protective circuit breaker. Make sure you can lock the power switch in OFF position (isolated). Type and requirements as specified in EN 60204-1, 5.3.2.

CAUTION Sharp element

Minor or moderate personal injury



- When installing the wiring in the terminal box, wear protective gloves to avoid cutting your hands on sharp edges.



If the power cable is damaged, it must be replaced by the manufacturer, the manufacturer's service partner or a similarly qualified person.



The user or the installer is responsible for correct earthing and protection according to local regulations.



All electrical connections must be carried out by qualified persons.

7.3 Protection against electric shock, indirect contact

WARNING

Electric shock

Death or serious personal injury



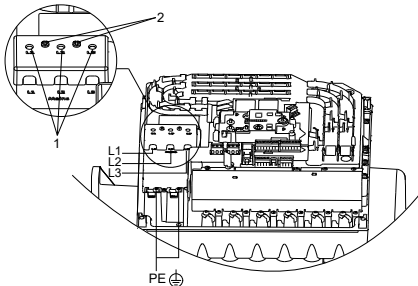
- Connect the product to protective earth and provide protection against indirect contact in accordance with local regulations.

Protective-earth conductors must have a yellow and green (PE) or yellow, green and blue (PEN) colour marking.

7.4 Cover for the power cables

Model K is equipped with a cover for the power cables.

The cover is attached to the insulation cover with 2 screws (2) and is equipped with 3 voltage measuring holes (1) for the respective phases (L1, L2, L3).



The cover for the power cables must be installed before switching on the product.

7.5 Protection against power supply voltage transients

The product is protected against power supply voltage transients in accordance with EN 61800-3.

7.6 Motor protection

The product incorporates thermal protection against slow overloading and blocking. No external motor protection is required.

The product includes load and speed sensitive motor overload protection with thermal memory retention.

7.7.2 Cable glands

See the list of cable gland sizes in relation to motor sizes in the section on other technical data.

It is recommended to use a cable gland M20 or M40 as applicable with IP 66 rating and suitable for cable strain relief.



After installation, all M20 openings must be closed by means of the delivered blind plugs to maintain the IP 55/66 rating.

7.7.3 Cable cross-section

WARNING

Electric shock

Death or serious personal injury

- Switch off the power supply to the product including the power supply for the signal relays. Wait at least 5 minutes before you make any connections in the terminal box.



- Follow the wiring diagrams and local regulations.
- Use branch-circuit protection fuses.
- Comply with local regulations as to cable cross-sections.
- Use the recommended fuse size.
- Connect the cables to terminals by applying the recommended tightening torque.

WARNING

Fire hazard

Death or serious personal injury

- Comply with local regulations as to cable cross-sections.
- Use the recommended fuse size.
- Connect the cables to terminals by applying the recommended tightening torque.



Make sure that the cables are secured with cable glands providing strain relief.



Recommended cable type: H07RN-F.

7.7.3.1 Cable cross-section data for MGE motors

3 × 380-480 V, 50/60 Hz, Model K

Speed [rpm]	Power P2 [kW]	Supply voltage [V]	Nominal current [A]	Cable cross-section [mm ²]	Cable cross-section [AWG]
1450-2200	11	3 × 380-480	20.2 - 16.4	6	10
	15	3 × 380-480	26.7 - 21.8	6	8
	18.5	3 × 380-480	33.2 - 26.9	10	8
	22	3 × 380-480	39.2 - 31.5	10	8
2900-4000	15	3 × 380-480	26.7 - 22	6	8
	18.5	3 × 380-480	33 - 27.8	10	8
	22	3 × 380-480	39.2 - 31.5	10	8

3 × 400-480 V, 50/60 Hz, Model K

Speed [rpm]	Power P2 [kW]	Supply voltage [V]	Nominal current [A]	Cable cross-section [mm ²]	Cable cross-section [AWG]
3500-4000	26	3 x 400-480	43.8 - 37.6	16	6

7.7.4 Conductors

Conductor types

Model K: Use stranded copper conductors only.

Conductor temperature ratings

Model K: Use minimum 75 °C copper conductors. The wire sizes for the supply mains must be sized for a wire size which is suitable for at least 125% of the rated input current of the motor drive units.

7.7.5 Three-phase connections

The cables in the terminal box must be as short as possible. However, the separated protective-earth conductor 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.

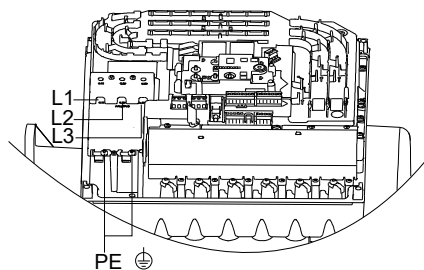


To maintain the cURus mark, additional requirements apply to the equipment. See the appendix concerning installation in the USA and Canada.

Model K: To avoid loose connections, ring terminals must be used. Ensure that ring terminals are short enough to stay within the terminal cover.

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

Power supply connection on a three-phase product



Model K

Pos.	Description
L1	Phase 1
L2	Phase 2
L3	Phase 3
PE	Protective earth

7.8.1 Residual-current circuit breakers

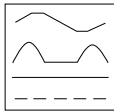
WARNING Electric shock

Death or serious personal injury



- This product can cause a DC current in the protective-earth conductor. If a residual current-operated protective (RCD) or monitoring (RCM) device is used for protection in case of direct or indirect contact, only an RCD or RCM of Type B is allowed on the supply side of this product.

The residual-current circuit breaker must be marked.

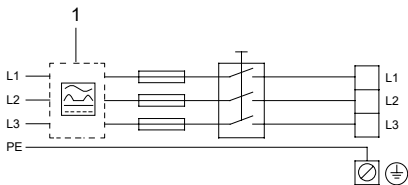


Take into account the total leakage current of all the electrical equipment in the installation.

This product may cause a direct current in the protective-earth conductor.

Connection example for three-phase supply

The figure shows an example of a mains-connected three-phase motor with a main switch, a backup fuse and a residual-current circuit breaker, type B.



Pos.	Description
1	Residual-current circuit breaker, type B
L1	Phase 1
L2	Phase 2
L3	Phase 3
PE	Protective earth

7.8.2 Overvoltage and undervoltage protection

Overvoltage and undervoltage may occur in case of unstable power supply or a faulty installation. The product stops if the voltage falls outside the permissible voltage range. The product restarts automatically when the voltage is within the permissible voltage range. The product requires no additional protection relay.



The product is protected against transients from the power supply according to EN 61800-3. In areas with high lightning intensity, we recommend external lightning protection.

Overvoltage category:

The product is approved for Overvoltage category III rating.

7.8.3 Overload protection

The motor-current protection settings are fixed for each motor variants. The settings ensure that the motor is protected against overtemperature in all operating states with regard to supply voltage and shaft load, including a blocked shaft.

The motors are current controlled and will respond by reducing the speed if the shaft load increases more than 10 % of the nominal load.

If the shaft load forces the speed down to minimum speed, the motor shuts down.

A sudden increase in the motor current caused by a fault where the peak of the motor current is increased 60 % above nominal will cause the motor to shut down within 0.5 ms.

The product requires no additional protection.

7.8.4 Overtemperature protection

The motor is thermally protected by a temperature measurement in the drive. It can handle the lack of airflow over the motor in case the fan cover is blocked. It also means that the protection has a built-in memory retention.

The time from start to shutdown due to overtemperature is therefore always longer when starting at a motor temperature close to the ambient temperature compared with restarting after a shutdown due to overtemperature.

7.8.5 Protection against phase unbalance

Phase unbalance on the power supply must be minimised. The three-phase motor must be connected to a power supply with a quality corresponding to IEC 60146-1-1, class C. This also ensures long life of the components.

7.8.6 Short-circuit current

The product's electronic power output short-circuit protection circuitry meets the requirements of IEC 60364-4-41:2005/AMD1:-, Clause 411.

Model K: Suitable for use on a circuit capable of delivering not more than 5000 rms symmetrical amperes, 480 V maximum when protected by gG fuses. See the section on fuse sizes.

TM066230

TM069815

7.9 Functional modules

The functional modules are different types of add-on boards containing various types of input and output terminals for the user to connect different types of sensors, for example switches and relays.

The product can only contain one functional module at the time.

The following functional modules are available:

- FM110
- FM310
- FM311 ³⁾

³⁾ Without Bluetooth (BLE).

The selection of module depends on the application and the required number of inputs and outputs.

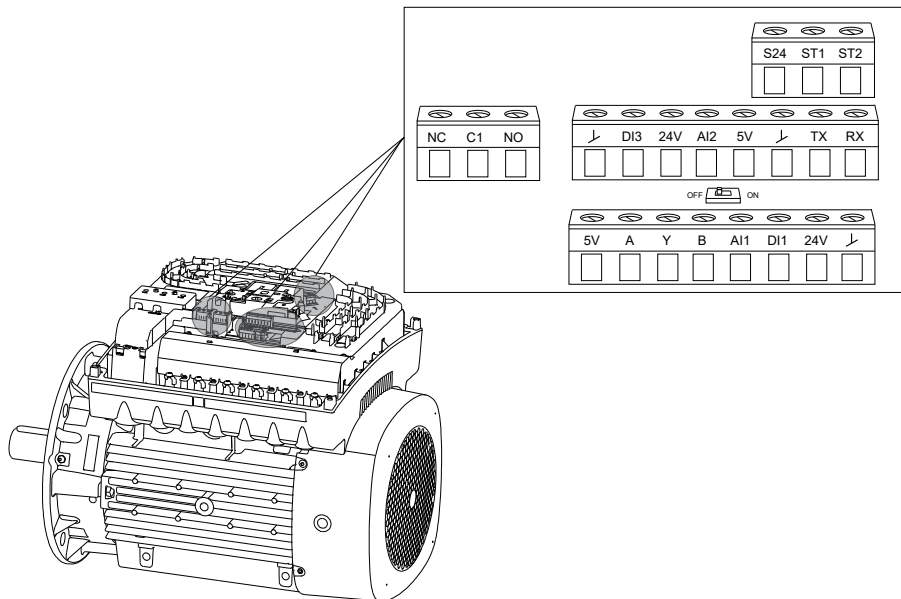
7.9.1 Functional module, FM110

WARNING
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.



7.9.2 Functional module, FM310 and FM311

WARNING
Electric shock

Death or serious personal injury

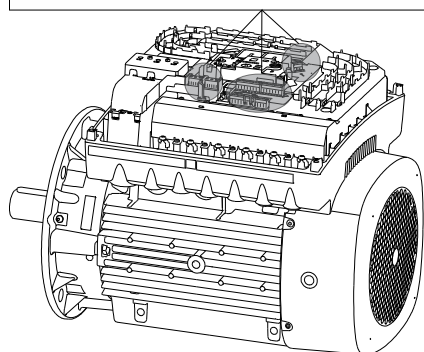
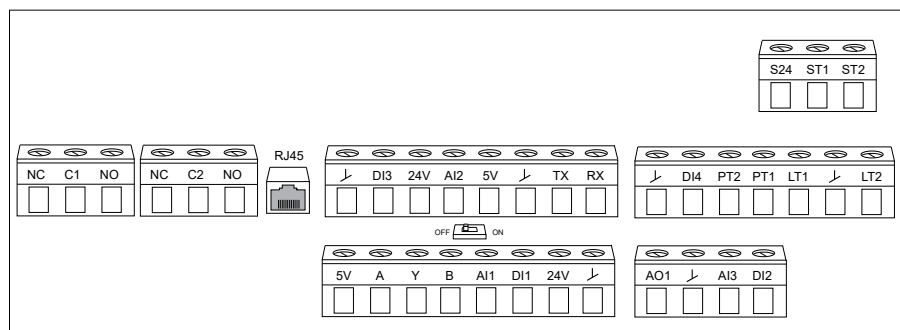


- Make sure that the wires to be connected to the connection groups below are separated from each other by reinforced insulation in their entire lengths.

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 and the Ethernet cable must be rated at least 250V/2A.

TM082861



7.13 Installing a communication interface module

WARNING

Electric shock

Death or serious personal injury



- Switch off the power supply to the product including the power supply for the signal relays. Wait at least 5 minutes before you make any connections in the terminal box. Make sure that the power supply cannot be switched on accidentally.

WARNING

Toxic liquids

Death or serious personal injury

- Wear personal protective equipment.



CAUTION

Cold surface

Minor or moderate personal injury

- Make sure that no one can accidentally come into contact with cold surfaces. Wear protective gloves.



8. Starting up the product

WARNING

Rotating parts

Death or serious personal injury



- Make sure to install the coupling guards before powering on the product.

CAUTION

Hot surface

Minor or moderate personal injury

- Do not touch the product while it is running.



Follow the startup instructions for the pump. See the related installation and operating instructions for the pump.



WARNING

Corrosive liquids

Death or serious personal injury

- Wear personal protective equipment.

9.1 User interfaces

WARNING

Hot surface

Death or serious personal injury



- Touch only the buttons on the operating panel. The product may be very hot.

WARNING

Electric shock

Death or serious personal injury



- If the operating panel is cracked or perforated, replace it immediately. Contact the nearest Grundfos sales company.

You can change the settings by means of the following user interfaces:

- HMI 100 operating panel
- HMI 101 operating panel ⁵⁾
- HMI 200 operating panel
- HMI 201 operating panel⁵⁾
- HMI 300 operating panel
- HMI 301 operating panel⁵⁾
- Grundfos GO application.

⁵⁾ HMI without a radio module.

All settings are saved if the power supply is switched off.

9.5 Grundfos GO

CAUTION

Radiation

Minor or moderate personal injury



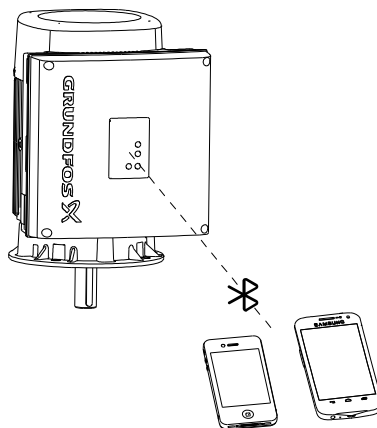
- Locate the product at a minimum distance of 20 cm from any body parts. Human tissue may be heated by RF energy.



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.



TM082930

11. Servicing the product

WARNING

Electric shock

Death or serious personal injury

- Switch off the power supply to the product including the power supply for the signal relays. Wait at least 5 minutes before you make any connections in the terminal box. Make sure that the power supply cannot be switched on accidentally.
- Tighten the cable glands to the recommended torques.
- For measuring power supply voltage, use the measuring points accessible through the holes on the cover for power cables.
- Follow the instructions in the service instructions for the motor. If parts are damaged, order new service kits.
- Connect the motor to protective earth and provide protection against indirect contact in accordance with local regulations.
- After servicing the motor, a dielectric strength test must be performed. Alternatively, a megger can be used at 500 VDC.



WARNING**Rotating parts**

Death or serious personal injury

- Stay clear of the product after switching on power, as the shaft can rotate immediately.



- Do not start up and run the motor if there is no pump connected to it.
- Install the coupling guards securely to the pump with the screws intended for this purpose.
- Tighten the coupling screws to the correct torque.

WARNING**Magnetic field**

Death or serious personal injury

- Do not handle the motor or rotor if you have a pacemaker.

**WARNING****Crushing of hands**

Death or serious personal injury

- Follow the instructions in the service instructions for the motor.
- Wear protective gloves when servicing the product.
- Be careful when handling magnetised parts to avoid personal injury.

**WARNING****Falling objects**

Death or serious personal injury

- Follow the lifting instructions for the product.
- Use lifting equipment rated for the weight of the product.

**WARNING****Back injury**

Death or serious personal injury

- Use lifting equipment and follow local regulations when lifting the product.

**WARNING****Crushing of feet**

Death or serious personal injury

- Wear safety shoes.
- When lifting the motor, attach lifting equipment to the eye bolts fitted to the motor. When lifting the terminal box, attach lifting equipment to the eye bolts or lifting brackets fitted to the terminal box.

**WARNING****Hot surface**

Death or serious personal injury

- Do not touch the product while it is running. Allow surfaces to cool before servicing.

**WARNING****Intoxication or risk of chemical burn**

Death or serious personal injury

- The battery can cause severe or fatal injuries in 2 hours or less if it is swallowed or placed inside any part of the body. In such an event, seek medical attention immediately.



- The replacement or servicing of batteries must be carried out by a qualified person.

- The battery contained within this product, whether new or used, is hazardous and is to be kept away from children.

**CAUTION****Sharp element**

Minor or moderate personal injury

- When servicing the product, wear protective gloves to avoid cutting your hands on sharp edges.

**CAUTION****Cold surface**

Minor or moderate personal injury

- Make sure that no one can accidentally come into contact with cold surfaces. Wear protective gloves.



Do not remove the rotor from the motor.

11.1.1 Cleaning the product

WARNING

Electric shock

Death or serious personal injury

- Switch off the power supply to the product including the power supply for the signal relays. Make sure that the power supply cannot be switched on accidentally.



- Check that the terminal box cover is intact before spraying water or chemicals on the product.
- Cleaning must be done with non-aggressive materials to avoid damage to surfaces and labels.
- Make sure that the air inlets are kept clean and free of residuals.



Do not expose the product to high-pressure water jets.

To clean the motor, follow the procedure below:

1. Let the motor cool down first to avoid condensation.
2. Spray it with cold water, and use only non-aggressive cleaning materials.

12. Taking the product out of operation

WARNING

Electric shock

Death or serious personal injury

- Switch off the power supply and make sure that it cannot be accidentally switched on. The power supply must be switched off for at least five minutes before you start working on the product.



WARNING

Back injury

Death or serious personal injury

- Use lifting equipment and follow local regulations when lifting the product.



The lifting eyes on the motor can be used for lifting the pump as well.



For lifting instructions, see the related installation and operating instructions for the pump.

13. Fault finding

WARNING

Electric shock

Death or serious personal injury

- Switch off the power supply before you start any work on the product.
- Make sure that the power supply cannot be switched on accidentally.



For information on fault finding, see the related installation and operating instructions for the pump.

14.1.1 Installation altitude

The installation altitude is the height above sea level of the installation site.

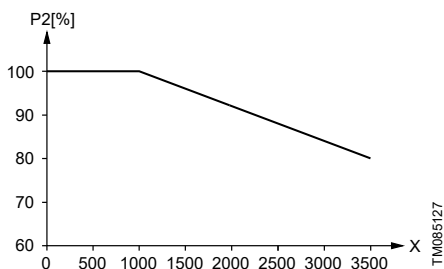
Products installed up to 1000 m above sea level can be loaded 100 %.

The motors can be installed up to 3500 m above sea level.



Products installed more than 1000 m above sea level must not be fully loaded due to the low density and consequent low cooling effect of the air.

The motor output power (P2) in relation to the altitude above sea level is shown in the graph.



Pos.	Description
P2	Motor output power [%]
X	Altitude [m]

14.1.3.1 Ambient temperature during storage and transportation

Description	Temperature
Minimum	-30 °C
Maximum	60 °C

14.1.3.2 Ambient temperature during operation

Model K

Description	3 × 380-480 V
Minimum	-20 °C
Maximum	50 °C ¹³⁾

¹³⁾ 26 kW MGE motors are rated for a maximum value of 40 °C.

14.1.4 Humidity

Description	Percentage
Maximum humidity (non-condensing)	95 %

If the humidity is constantly high and above 85 %, open the drain holes in the drive-end flange to vent the motor.



If you install the motor in moist surroundings or areas with high humidity, ensure that the bottom drain hole is open. As a result, the motor becomes self-venting, allowing water and humid air to escape. When you open the drain hole, the enclosure class of the motor will be lower than standard.

14.1.5 Pollution degree

The product is approved for Pollution degree 3 rating.

14.2 Technical data, three-phase motors



WARNING

Electric shock

Death or serious personal injury

- Use the recommended fuse size.

Supply voltage

- 3 × 380-480 V -10 % / +10 %, 50/60 Hz, PE
- 3 × 400-480 V -10 % / +10 %, 50/60 Hz, PE

3 × 380-480 V, 50/60 Hz, Model K

Speed [rpm]	Power [kW]	Mains voltage [V]	Leakage current (I _L) [mA]
1450-2200	11-22	≤ 400	3.5 < I _L < 20
		> 400	3.5 < I _L < 30
2900-4000	15-22	≤ 400	3.5 < I _L < 20
		> 400	3.5 < I _L < 30

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

Recommended size of fuse

For recommended size of fuses see the tables below.

3 × 380-480 V, Model K

Motor size [kW]	Recommended [A]	Maximum [A]	Fuse type
11	35	63	gG
15	50	80	gG
18.5	60	80	gG
22	70	80	gG

3 × 400-480 V, Model K

Motor size [kW]	Recommended [A]	Maximum [A]	Fuse type
26	80	80	gG



For recommended size of fuses see the appendix concerning installation in the USA and Canada.

14.2.1 Leakage current (AC)

The leakage currents are measured without any load on the shaft and in accordance with EN 61800-5-1:2007.

WARNING

Electric shock

Death or serious personal injury

- If the leakage current is greater than 3.5 mA, use a PE cable with a minimum cross-section of at least 10 mm², or use 2 separate PE cables with the same cross section as the power cable.



3 × 400-480 V, 50/60 Hz, Model K

Speed [rpm]	Power [kW]	Mains voltage [V]	Leakage current (I _L) [mA]
3500-4000	26	≤ 400	3.5 < I _L < 20
		> 400	3.5 < I _L < 30

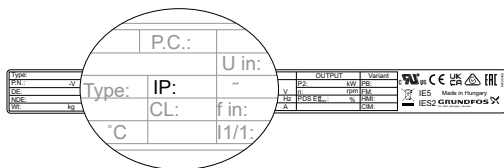
14.4.3 Enclosure class

Standard: IP55.

Optional: IP66.

IP ratings are evaluated in accordance with IEC 60034-5.

The IP rating can be found on the product's nameplate:



14.4.4 Insulation class

311 °F (155 °C).

14.4.8 Torques

Torques for terminals

Terminal	Recommended torque [Nm]
L1, L2, L3	2.2
PE	6
NC, C1, C2, NO	0.5
DI1, DI2, DI3, DI4, AI1, AI2, AI3, AO1, PT1, PT2, LT1, LT2, GND, 24V, 5V, TX, RX, A, Y, B, S24, ST1, ST2	0.5

Torques for other parts

Part designation	Recommended torque [Nm]
Control box, upper part	6.5 - 7
Cover for mains	1.0 - 1.3
Cable glands:	
M20/M40	1 - 1.5

14.5 Accessories

The following are the communication interface modules intended for use with the product:

Protocol	Communication interface module
GENibus	CIM 50
LonWorks (Single)	CIM 100
PROFIBUS DP	CIM 150
Modbus RTU	CIM 200

TM1084059

Protocol	Communication interface module
BACnet MS/TP	CIM 300
Modbus TCP, BACnet IP, PROFINET, GiC/GRM IP, EtherNet IP	CIM 500
LonWorks (Multi)	CIM 110

Installing a communication interface module not listed above might affect the compliance level of the product.

14.6 Applicable standards

Standard

UL 61800-5-1, Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, Edition 1, Revision Date 02/11/2021

CSA C22.2 No. 274, Adjustable Speed Drives, Edition 2, Issue Date 04/2017

EN/IEC 61800-5-1, Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, IEC 61800-5-1:2007+AMD1:2016

UL 60730-1, Automatic Electrical Controls - Part 1: General Requirements, Edition 5, Revision Date 10/18/2021

CAN/CSA E 60730-1, Automatic Electrical Controls - Part 1: General Requirements, Edition 5, AMD 2, Revision Date 10/2021

UL 1004-1, Rotating Electrical Machines - General Requirements, Edition 2, Revision Date 11/05/2020

UL 1004-3, Thermally Protected Motors, Edition 2, Revision Date 01/31/2018

UL 1004-7, Electronically Protected Motors, Edition 3, Issue Date 06/21/2018

CSA C22.2 No. 100, Motors and Generators, Edition 7, Revision Date 04/2017

CSA C22.2 No. 77, Motors with Inherent Overheating Protection, Edition 8, Revision Date 02/2015

EN/IEC 60034-1, Rotating Electrical Machines - Part 1: Rating and Performance, Edition 14, Issue Date 02/2022

15. Disposing of the product

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The crossed-out wheeled bin symbol on a product means that it must be disposed of separately from household waste. When a product marked with this symbol reaches its end of life, take it to a collection point designated by the local waste disposal authorities.

The separate collection and recycling of such products will help protect the environment and human health.

17. Document quality feedback

To provide feedback about this document, scan the QR code using your phone's camera or a QR code app.



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Appendix A

A.1. Sound pressure level

DE: Schalldruckpegel	TR: Ses basınç seviyesi
ES: Nivel de ruido	CN: 声压水平
FR: Niveau de pression sonore	AR: مستوى ضغط الصوت

Motor [kW]	Rated max. speed [rpm]	Speed [rpm]	Sound pressure level ISO 3743 [dB(A)]	
			3 × 200-240 V	3 × 380-480 V
15	2200	1450	- 1)	TBD 2)
		2200		
	4000	2900	- 1)	TBD 2)
		4000		
18.5	2200	1450	- 1)	TBD 2)
		2200		
	4000	2900	- 1)	TBD 2)
		4000		
22	2200	1450	- 1)	TBD 2)
		2200		
	4000	2900	- 1)	TBD 2)
		4000		
26	4000	3500	- 1)	TBD 2)
		4000		

1) Not available in this voltage range.

2) To be determined. Check the online version.

CRE, CRIE, CRNE, SPKE, MTRE, CME, BMS installation and operating instructions



<http://net.grundfos.com/qr/i/92898118>

QR92898118

Appendix B

B.1. Installation in the USA and Canada



To maintain the cURus approval, the additional information in this section must be followed.

Environmental enclosure ratings

The MGE, MLE Model K enclosure is approved for NEMA type 2 and 12 and are suitable for indoor use only.

For more information about ambient temperature during operation, see the sections on operating conditions and ambient temperature.

EMC statements for USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



MLE motors of the C2 emission category fulfill the limits of Class A.



MLE motors of the C3 emission category can only be used in industrial plants and public utilities in accordance with FCC § 15.103(b) and ICES 003 § 1.5.1(c). In other locations, MLE motors of the C1 or C2 emission category must be used.

Canadian Interference-Causing Equipment Standard

MLE Model K complies with the Canadian ICES-003 Class A specifications. This Class A device meets all the requirements of the Canadian interference-causing equipment regulations.

L'appareil MLE Model K, est conforme à la norme NMB-003 du Canada pour le matériel de classe A. Cet appareil de classe A respecte toutes les exigences du règlement canadien s'appliquant au matériel brouilleur.

Hot surface

The product might reach a surface temperature of 149 °F (65 °C), therefore pay attention when operating the product.

The following marking is found on the product:



B.2. Radio communication

For the USA and Canada

CAUTION Radiation



Minor or moderate personal injury

- This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with a minimum distance of 8 inches (20 cm) between the radiator and your body.



This device complies with Part 15 of the FCC rules and RSS210 of the IC rules.



Changes or modifications made to this equipment not expressly approved by Grundfos may void the FCC authorization to operate this equipment.

Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

Pour les États-Unis et le Canada

CAUTION Radiation



Blessures corporelles mineures à modérées

- Cet équipement est conforme aux limites d'exposition aux rayonnements définies par la FCC et l'ISDE pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm (0,66 pi) entre le radiateur et votre corps.



Cet appareil est conforme à la section 15 de la réglementation FCC et à RSS210 de la réglementation IC.



Les changements ou modifications apportés à cet équipement qui ne sont pas expressément approuvés par Grundfos peuvent annuler l'autorisation de la FCC à utiliser cet équipement.

Son fonctionnement est soumis aux deux conditions suivantes:

- Ce dispositif ne doit pas provoquer de brouillage préjudiciable.
- Il doit accepter tout brouillage reçu, y compris le brouillage pouvant entraîner un mauvais fonctionnement.

B.3. Identification numbers

For the USA

Grundfos Holding A/S

Contains FCC ID: OG3-RADIOM01-2G4

Contains FCC ID: OG3-RA2G4MSR.

For Canada

Grundfos Holding A/S

Model: RADIOMODULE 2G4

Contains IC: 10447A-RA2G4M01

Contains IC: 10447A-RA2G4MSR.

Pour le Canada

Numéros d'identification:

Grundfos Holding A/S

Modèle: RADIOMODULE 2G4

Contient IC: 10447A-RA2G4M01

Contient IC: 10447A-RA2G4MSR.

B.4. Electrical connection**Installation altitude**

For 480/277V grid systems : The maximum altitude is between 0 and 3500 m above sea level.

For 480V (corner earthed) grid systems: The maximum altitude is between 0 and 2000 m above sea level.

Conductors

See the sections on electrical installation and cable requirements.

Conductor temperature ratings

Model K: Use 75 °C copper conductors only. The wire sizes for the supply mains must be sized for a wire size which is suitable for at least 125% of the rated input current of the motor drive units.

Conduit hubs

In case of connection to conduit, suitable conduit hubs need to be installed in the field. Such conduit hubs must be UL Listed according to UL Category Code Number (CCN) DWTT/DWTT7 and suitable for the relevant enclosure type rating in accordance with UL 514B and CSA C22.2 No. 18.3.

For type 2 enclosures, it is allowed to use conduit hubs rated Type 2, 3, 3R, 3S, 4, 4X, 5, 6, 6P, 12 or Type 13.

For type 12 enclosures, it is only allowed to use conduit hubs rated Type 12 or Type 13.

After installation, all unused M20 openings must remain closed by means of the delivered blind plugs in order to maintain the defined enclosure rating.

The relevant enclosure type rating can be found on the nameplate of the product.

Recommended ring terminals

Ensure that the used ring terminals are UL certified.

The 480 V supply terminals are suitable for field wiring when used with stranded wires and specific listed crimp terminals manufactured by Tyco Electronics (E13288).

Cable cross-section		Part number/Designation number	Manufacturer
[mm ²]	[AWG]		
16	6	130552	Tyco Electronics
10	8	160013	Tyco Electronics
6	10	130191	Tyco Electronics

Torques

See the section on torques.

Line reactors

The maximum line reactor size in front of the drive must not exceed the following values:

Model K

P2		Maximum line reactor size [mH]	
[kW]	[HP]	1750-2200 rpm	3500-4000 rpm
11	15	0.3	-
15	20	0.2	0.2
18.5	25	0.2	0.2
22	30	0.2	0.2
26	35	0.2	0.2



Line reactors are often required for six-pulse variable speed drives. Please observe that the MGE, MLE utilize a small DC capacitor concept for lower harmonics and exceeding the maximum inductance may cause resonance between reactor and the MGE, MLE that will reduce the lifetime of the product.

Short-circuit current

Model K: Suitable for use on a circuit capable of delivering not more than 5000 rms symmetrical amperes, 480 V maximum when protected by RK1, J or T Class fuses, rated 600 V.

Fuses

Fuses used for motor protection must be rated for minimum 600 V.

3 x 380-480 V, MGE Model K

Motor size [kW]	Recommended [A]	Maximum [A]	Fuse type
11	35	60	RK1, Class J or T UL listed fuse
15	50	80	RK1, Class J or T UL listed fuse
18.5	60	80	RK1, Class J or T UL listed fuse
22	70	80	RK1, Class J or T UL listed fuse

3 x 400-480 V, MGE Model K

Motor size [kW]	Recommended [A]	Maximum [A]	Fuse type
26	80	80	RK1, Class J or T UL listed fuse

3 × 440-480 V, MLE Model K

Motor size [hp]	Recommended [A]	Maximum [A]	Fuse type
15	35	60	RK1, Class J or T UL listed fuse
20	50	80	RK1, Class J or T UL listed fuse
25	60	80	RK1, Class J or T UL listed fuse
30	70	80	RK1, Class J or T UL listed fuse

Branch circuit short-circuit protection**For the USA**

Integral solid state short-circuit protection does not provide branch circuit protection. Branch circuit protection must be provided in accordance with the National Electrical Code and any additional local codes, or the equivalent.

For Canada

INTEGRAL SOLID STATE SHORT-CIRCUIT PROTECTION DOES NOT PROVIDE BRANCH CIRCUIT PROTECTION. BRANCH CIRCUIT PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, PART I.

Overload protection

Degree of overload protection provided internally by the drive, in percent of full-load current: 102 %.


1. 中国 RoHS

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴联苯醚 (PBDE)
泵壳	X	0	0	0	0	0
印刷电路板	X	0	0	0	0	0
紧固件	X	0	0	0	0	0
管件	X	0	0	0	0	0
定子	X	0	0	0	0	0
转子	X	0	0	0	0	0

本表格依据 SJ/T 11364 的规定编制

O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 该规定的限量要求。

 该产品环保使用期限为 10 年，标识如左图所示。
此环保期限只适用于产品在安装与使用说明书中所规定的条件下工作

中国 微功率短距离设备声明

1. Chinese micro power short range equipment statement

中国微功率短距离设备声明

- (一) 符合“微功率短距离无线电发射设备目录和技术要求”中通用微功率设备 F 类设备技术要求,用于 LoWPAN 应用。采用内置天线。控制、开关等信息请参考产品使用手册。
- (二) 不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率(包括额外加装射频功率放大器),不得擅自更改发射天线;
- (三) 不得对其他合法的无线电台(站)产生有害干扰,也不得提出免受有害干扰保护;
- (四) 应当承受辐射射频能量的工业、科学及医疗(ISM)应用设备的干扰或其他合法的无线电台(站)干扰;
- (五) 如对其他合法的无线电台(站)产生有害干扰时,应立即停止使用,并采取措施消除干扰后方可继续使用;
- (六) 在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站(含测控、测距、接收、导航站)等军民用无线电台(站)、机场等的电磁环境保护区域内使用微功率设备,应当遵守电磁环境保护及相关行业主管部门的规定;
- (七) 禁止在以机场跑道中心点为圆心、半径 5000 米的区域内使用各类模型遥控器;
- (八) 微功率设备使用时温度和电压的环境条件见产品使用手册。

Declaration of conformity

GB: EC/EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, to which the declaration below relates, are in conformity with the Council Directives listed below on the approximation of the laws of the EC/EU member states.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

DK: EF-/EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EF-/EU-medlemsstaternes lovgivning.

ES: Declaración de conformidad de la CE/UE

Grundfos declara, bajo su exclusiva responsabilidad, que los productos CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS a los que hace referencia la siguiente declaración cumplen lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la CE/UE.

FR: Déclaration de conformité CE/UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que les produits CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, auxquels se réfère cette déclaration, sont conformes aux Directives du Conseil concernant le rapprochement des législations des États membres CE/UE relatives aux normes énoncées ci-dessous.

HR: EC/EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da su proizvodi CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EC/EU-a.

BG: Декларация за съответствие на ЕС/ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднавяване на правните разпоредби на държавите-членки на ЕС/ЕО.

DE: EG-/EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, auf die sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EG-/EU-Mitgliedsstaaten übereinstimmen.

EE: EÜ/ELi vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuisikulist vastutust selle eest, et toode CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ/EL liikmesriikides.

FI: EY-/EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteet CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, joita tämä vakuutus koskee, ovat EY-/EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

GR: Δήλωση συμμόρφωσης ΕΚ/ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, στα οποία αναφέρεται η παρακάτω δήλωση, συμμορφώνονται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΚ/ΕΕ.

HU: EC/EU megfeleléségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS termékek, amelyekre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

IT: Dichiarazione di conformità CE/UE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, ai quale si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri CE/UE.

LV: EK/ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par EK/ES dalībvalstu normatīvo aktu tuvināšanu.

PL: Deklaracja zgodności WE/UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

RO: Declarația de conformitate CE/UE

Noi Grundfos declarăm pe propria răspundere că produsele CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, la care se referă această declarație, sunt în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre CE/UE.

RU: Декларация о соответствии нормам ЕЭС/ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, к которым относится нижеприведенная декларация, соответствуют нижеприведенным Директивам Совета Евросоюза о тождественности законов стран-членов ЕЭС/ЕС.

SI: Izjava o skladnosti ES/EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic ES/EU.

LT: EB/ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktai CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, kuriems skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl EB/ES šalių narių įstatymų suderinimo.

NL: EG-/EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, waarop de onderstaande verklaring betrekking heeft, in overeenstemming zijn met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EG-/EU-lidstaten.

PT: Declaração de conformidade CE/UE

A Grundfos declara sob sua única responsabilidade que os produtos CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, aos quais diz respeito a declaração abaixo, estão em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da CE/UE.

RS: Deklaracija o usklađenosti EC/EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EC/EU.

SE: EG-/EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkterna CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EG-/EU-medlemsstaternas lagstiftning som listas nedan.

SK: EC/EU vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS na ktoré sa vyhlásenie uvedeného nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EC/EU.

TR: EC/AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS ürünlerinin, EC/AB Üye ülkelerinin direktiflerinin yakınlştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS 系列，其制造和性能完全符合以下所列欧盟委员会指令。

KO: EC/EU 적합성 선언

Grundfos는 아래의 선언과 관련된 CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS 제품이 EU 회원국 법률에 기하여 아래의 이사회 지침을 준수함을 단독 책임 하에 선언합니다.

ID: Deklarasi kesesuaian Komunitas Eropa/Uni Eropa

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan berikut ini serta sedapat mungkin sesuai dengan hukum negara-negara anggota Komunitas Eropa/Uni Eropa.

МК: Декларация за сообразност на ЕЗ/ЕУ

Ние, Grundfos, изјавуваме под целосна одговорност дека производите CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, на кои се однесува долунаведената декларација, се во согласност со овие директиви на Советот за приближување на законите на земјите-членки на ЕЗ/ЕУ.

NO: EFs/EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktene CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS som denne erklæringen gjelder, er i samsvar med styrets direktiver om tilnærming av forordninger i EF-/EU-landene.

UA: Декларация відповідності директивам EC/EU

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, до яких відноситься нижченаведена декларація, відповідають директивам EC/EU, переліченим нижче, щодо тотожності законів країн-членів ЄС.

JP: EC/EU 適合宣言

Grundfos は、その責任の下に、CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS 製品が EU 加盟諸国の法規に関連する、以下の評議会指令に適合していることを宣言します。

BS: Izjava o usklađenosti EC/EU

Mi, kompanija Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, na koji se odnosi izjava ispod, u skladu sa niže prikazanim direktivama Vijeća o usklađivanju zakona država članica EC/EU.

KZ: Сәйкестік жөніндегі ЕК/ЕО декларациясы

Біз, Grundfos, ЕК/ЕО мүше елдерінің заңдарына жақын төменде көрсетілген Кеңес директиваларына сәйкес төмендегі декларацияға қатысты CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS өнімдері біздің жеке жауапкершілігімізде екенін мәлімдейміз.

MY: Perisytiharan keakuran EC/EU

Kami, Grundfos, mengisytiharkan di bawah tanggungjawab kami semata-mata bahawa produk CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, yang berkaitan dengan perisytiharan di bawah, akur dengan Perintah Majlis yang disenaraikan di bawah ini tentang penghampiran undang-undang negara ahli EC/EU.

AR: إقرار مطابقة الاتحاد الأوروبي (EC/EU)

نقر نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتجين CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS اللذين يختص بهما الإقرار أدناه، يكونان مطابقين لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EC/EU).

TH: คำประกาศความสอดคล้องตามมาตรฐาน EC/EU

เราในนามของบริษัท Grundfos ขอประกาศภายใต้ความรับผิดชอบของเราแต่เพียงผู้เดียวว่าผลิตภัณฑ์ CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS ซึ่งเกี่ยวข้องกับคำประกาศนี้ มีความสอดคล้องกับระเบียบคำสั่งตามรายการด้านล่างนี้ของสภาวิชาชีพว่าด้วยค่าประมาณตามกฎหมายของรัฐที่เป็นสมาชิก EC/EU

VI: Tuyên bố tuân thủ EC/EU

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS mà tuyên bố dưới đây có liên quan tuân thủ các Chỉ thị Hội đồng sau về việc áp dụng luật pháp của các nước thành viên EC/EU.

IS: EB/ESB-samræmisyfirlýsing

Við, Grundfos, lýsum því yfir og ábyrgjumst að fullu að vörum CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, sem þessi yfirlýsing á við um, samræmist tilskipunum ráðs Evrópubandalaganna um samræmingu laga aðildarríkja EB/ESB.

TW: EC/EU 合格聲明

葛蘭富根據我們唯一的責任，茲聲明與以下聲明相關之 CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS 產品，符合下列近似 EU 會員國法律之議會指令。

AL: Deklara e konformitetit të KE/BE

Ne, Grundfos, deklarojmë vetëm nën përgjegjësinë tonë se produktet CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS, me të cilat lidhet kjo deklaratë, janë në pajtueshmëri me direktivat e Këshillit të renditura më poshtë për përafrimin e ligjeve të shteteve anëtare të KE-/BE-së.

- Machinery Directive (2006/42/EC).
Standard used: EN 809:1998 + A1:2009.
- Ecodesign Directive (2009/125/EC).
Water pumps:
- Commission Regulation No 547/2012.
Applies only to water pumps marked with the minimum efficiency index MEI. See pump nameplate.
- RoHS Directives: 2011/65/EU and 2015/863/EU
Standard used: EN IEC 63000:2018

Jimm Feldborg

Head of PD IND

Grundfos Holding A/S

Poul Due Jensens Vej 7

8850 Bjerringbro, Denmark

Person authorised to compile technical file and empowered to sign the EC/EU declaration of conformity.

Declaration of conformity related to the motor is enclosed in this manual (publication number 98247034, 92898130).

This EC/EU declaration of conformity is only valid when published as part of the Grundfos safety instructions (publication number 98247034, 92898130) and Grundfos installation and operating instruction (publication number 99955183).

Bjerringbro, June 1, 2023



Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products MGE160, MGE180, MLE160, MLE180 – model K, to which the declaration below relates, are in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky MGE160, MGE180, MLE160, MLE180 – model K, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne MGE160, MGE180, MLE160, MLE180 – model K som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que los productos MGE160, MGE180, MLE160, MLE180 – model K a los que hace referencia la siguiente declaración cumplen lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la UE.

FR: Déclaration de conformité UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que les produits MGE160, MGE180, MLE160, MLE180 – model K, auxquels se réfère cette déclaration, sont conformes aux Directives du Conseil concernant le rapprochement des législations des États membres UE relatives aux normes énoncées ci-dessous.

HR: EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da su proizvodi MGE160, MGE180, MLE160, MLE180 – model K, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EU-a.

BG: Декларация за съответствие на EO

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите MGE160, MGE180, MLE160, MLE180 – model K, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на EO.

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte MGE160, MGE180, MLE160, MLE180 – model K, auf die sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmen.

EE: EÜ vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuisikulist vastutust selle eest, et toode MGE160, MGE180, MLE160, MLE180 – model K, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ liikmesriikides.

FI: EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteet MGE160, MGE180, MLE160, MLE180 – model K, joita tämä vakuutus koskee, ovat EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

GR: Δήλωση συμμόρφωσης ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα MGE160, MGE180, MLE160, MLE180 – model K, στα οποία αναφέρεται η παρακάτω δήλωση, συμμορφώνονται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

HU: EU megfeleléségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) MGE160, MGE180, MLE160, MLE180 – model K termékek, amelyekre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

IT: Dichiarazione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti MGE160, MGE180, MLE160, MLE180 – model K, ai quale si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

LV: ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti MGE160, MGE180, MLE160, MLE180 – model K, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par ES dalībvalstu normatīvo aktu tuvināšanu.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty MGE160, MGE180, MLE160, MLE180 – model K, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

RO: Declarația de conformitate UE

Noi Grundfos declarăm pe propria răspundere că produsele MGE160, MGE180, MLE160, MLE180 – model K, la care se referă această declarație, sunt în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

RU: Декларация о соответствии нормам ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия MGE160, MGE180, MLE160, MLE180 – model K, к которым относится нижеприведенная декларация, соответствуют нижеприведенным Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

SI: Izjava o skladnosti EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek MGE160, MGE180, MLE160, MLE180 – model K, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic EU.

TR: AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan MGE160, MGE180, MLE160, MLE180 – model K ürünlerinin, AB Üye ülkelerinin direktiflerinin yakınlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

LT: ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiamo, kad produktai MGE160, MGE180, MLE160, MLE180 – model K, kuriems skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten MGE160, MGE180, MLE160, MLE180 – model K, waarop de onderstaande verklaring betrekking heeft, in overeenstemming zijn met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EU-lidstaten.

PT: Declaração de conformidade UE

A Grundfos declara sob sua única responsabilidade que os produtos MGE160, MGE180, MLE160, MLE180 – model K, aos quais diz respeito a declaração abaixo, estão em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da UE.

RS: Deklaracija o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod MGE160, MGE180, MLE160, MLE180 – model K, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

SE: EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkterna MGE160, MGE180, MLE160, MLE180 – model K, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

SK: ES vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty MGE160, MGE180, MLE160, MLE180 – model K na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

UA: Декларація відповідності директивам EU

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби MGE160, MGE180, MLE160, MLE180 – model K, до яких відноситься нижченаведена декларація, відповідають директивам EU, переліченим нижче, щодо тотожності законів країн-членів ЄС.

CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 MGE160, MGE180, MLE160, MLE180 – model K 系列，其制造和性能完全符合以下所列欧盟委员会指令。

KO: EU 적합성 선언

Grundfos는 아래의 선언과 관련된 MGE160, MGE180, MLE160, MLE180 – model K 제품이 EU 회원국 법률에 기반하여 아래의 이사회 지침을 준수함을 단독 책임 하에 선언합니다.

ID: Deklarasi kesesuaian Uni Eropa

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk MGE160, MGE180, MLE160, MLE180 – model K, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan berikut ini serta sedapat mungkin sesuai dengan hukum negara-negara anggota Uni Eropa.

MK: Декларација за сообразност на ЕУ

Ние, Grundfos, изјавуваме под целосна одговорност дека производите MGE160, MGE180, MLE160, MLE180 – model K, на кои се однесува долунаведената декларација, се во согласност со овие директиви на Советот за приближување на законите на земјите-членки на ЕУ.

NO: EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktene MGE160, MGE180, MLE160, MLE180 – model K som denne erklæringen gjelder, er i samsvar med styrets direktiver om tilnærming av forordninger i EU-landene.

TH: คำประกาศความสอดคล้องตามมาตรฐาน EU

เราในนามของบริษัท Grundfos ขอประกาศภายใต้ความรับผิดชอบของเราแต่เพียงผู้เดียวว่าผลิตภัณฑ์ MGE160, MGE180, MLE160, MLE180 – model K ซึ่งเกี่ยวข้องกับคำประกาศนี้ มีความสอดคล้องกับระเบียบค่าสิ่งตามรายการด้านล่างนี้ของสภาวิชาชีพว่าด้วยค่าประมาณตามกฎหมายของรัฐที่เป็นสมาชิก EU

VI: TUYÊN BỐ TUÂN THỦ EU

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm MGE160, MGE180, MLE160, MLE180 – model K mà tuyên bố dưới đây có liên quan tuân thủ các Chỉ thị Hội đồng sau về việc áp dụng luật pháp của các nước thành viên EU.

IS: ESB-samræmisýfirlýsing

Við, Grundfos, lýsum því yfir og ábyrgjumst að fullu að vörurnar MGE160, MGE180, MLE160, MLE180 – model K, sem þessi yfirlýsing á við um, samræmist tilskipunum ráðs Evrópubandalaganna um samræmingu laga aðildarríkja ESB.

JP: EU 適合宣言

Grundfos は、その責任の下に、MGE160, MGE180, MLE160, MLE180 – model K 製品が EU 加盟諸国の法規に関連する、以下の評議会指令に適合していることを宣言します。

BS: Izjava o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod MGE160, MGE180, MLE160, MLE180 – model K, na koji se odnosi izjava ispod, u skladu sa niže prikazanim direktivama Vijeća o usklađivanju zakona država članica EU.

KZ: Сәйкестік жөніндегі ЕО декларациясы

Біз, Grundfos, ЕО мүше елдерінің заңдарына жақын төменде көрсетілген Кеңес директиваларына сәйкес төмендегі декларацияға қатысты MGE160, MGE180, MLE160, MLE180 – model K өнімдері біздің жеке жауапкершілігімізде екенін мәлімдейміз.

MY: Perisytiharan keakuran EU

Kami, Grundfos, mengisytiharkan di bawah tanggungjawab kami semata-mata bahawa produk MGE160, MGE180, MLE160, MLE180 – model K, yang berkaitan dengan perisytiharan di bawah, akur dengan Perintah Majlis yang disenaraikan di bawah ini tentang penghampiran undang-undang negara ahli EU.

(EU) إقرار مطابقة الاتحاد الأوروبي :AR

نقر نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتجين MGE160, MGE180, MLE160, MLE180 – model K اللذين يختص بهما الإقرار أدناه، يكونان مطابقين لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EU).

TW: EU 合格聲明

葛蘭富根據我們唯一的責任，茲聲明與以下聲明相關之 MGE160, MGE180, MLE160, MLE180 – model K 產品，符合下列近似 EU 會員國法律之議會指令。

AL: Deklara e konformitetit të BE

Ne, Grundfos, deklarojmë vetëm nën përgjegjësinë tonë se produktet MGE160, MGE180, MLE160, MLE180 – model K, me të cilat lidhet kjo deklaratë, janë në pajtueshmëri me direktivat e Këshillit të renditura më poshtë për përfaqësimin e ligjeve të shteteve anëtare të BE-së.

- All products
 - **RoHS Directives (2011/65/EU) and (2015/863/EU)**
 - Standard used:
EN IEC 63000:2018
- Products marked: HMI 100, HMI 200 or HMI 300 and FM110 or FM310
 - **Radio Equipment Directive (2014/53/EU)**
 - Standards used:
EN 61800-5-1:2007+A1:2017+A11:2021, EN 61800-3:2018, EN 62479:2010, EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4, EN 300 328 V2.2.2
- Products marked: HMI 101, HMI 201 or HMI 301 and FM311
 - **Low Voltage Directive (2014/35/EU)**
 - Standards used:
EN 61800-5-1:2007+A1:2017+A11:2021, EN 60034-1:2010+AC:2010
 - **EMC Directive (2014/30/EU)**
 - Standard used:
EN 61800-3:2018

This EU declaration of conformity is only valid when published as part of the Grundfos safety instruction (publication number 92878948 XXXX).

Bjerringbro, 31/March/2023



Jimm Feldborg
Head of PD IND
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8850 Bjerringbro, Denmark

Person authorised to compile technical file and empowered to sign the EU declaration of conformity.

Declaration of conformity

UK declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with UK regulations, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, SPKE, MTRE, MTREC, MTHE, CME, CMEC, BMS

- Supply of Machinery (Safety) Regulations 2008.
Standard used: BS EN 809:1998 + A1:2009.
- The Ecodesign for Energy-Related Products and Energy Information Regulations 2019.
Water pumps:
 - Regulation (EU) No 547/2012.
Applies only to water pumps marked with the minimum efficiency index MEI. See pump nameplate.
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2019.
Standard used: BS EN IEC 63000:2018.

This UK declaration of conformity is only valid when accompanying Grundfos instructions (used in publication number 98247034, 99955183 and 92898130).

Bjerringbro, June 1, 2023



Jimm Feldborg
Head of PD IND

Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

Manufacturer and person empowered to sign the UK
declaration of conformity.

UK importer: Grundfos Pumps Ltd, Grovebury Road,
Leighton Buzzard, LU7 4TL.
10000324402

Declaration of conformity

UK declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with UK regulations, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

MGE160, MGE180, MLE160, MLE180 – model K

- All products
 - **The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2019**
 - Standard used: EN IEC 63000:2018
- Products marked: HMI 100, HMI 200 or HMI 300 and FM110 or FM310
 - **Radio Equipment Regulations 2017**
 - Standards used: EN 61800-5-1:2007+A1:2017+A11:2021, EN 61800-3:2018, EN 62479:2010, EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4, EN 300 328 V2.2.2
- Products marked: HMI 101, HMI 201 or HMI 301 and FM311
 - **Electrical Equipment (Safety) Regulations 2016**
 - Standard used: EN 61800-5-1:2007+A1:2017+A11:2021, EN 60034-1:2010+AC:2010
 - **Electromagnetic Compatibility Regulations 2016**
 - Standard used: EN 61800-3:2018

This UK declaration of conformity is only valid when published as part of the Grundfos safety instruction (publication number 92878948 XXXX).

UK Importer: Grundfos Pumps Ltd. Grovebury Road, Leighton Buzzard, LU7 4TL.

Bjerringbro, 15/April/2023



Jimm Feldborg
Head of PD IND

Grundfos Holding A/S
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Manufacturer and person empowered to sign the UK declaration of conformity.

10000529633

Declaration of conformity



GB: Ukrainian declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with Ukrainian resolutions, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, MTRE, MTREC, MTHE, CME, CMEC

Resolution No. 62, 2013 - Technical Regulations on Safety of Machines

Resolution No. 533, 2018 - Amendments to some provisions

Standards used: ДСТУ EN 809:2015

Resolution No 804, 2018 - Establishing a Framework for the Setting of Ecodesign Requirements for Energy-related Products

Resolution No. 154, 2019 - Ecodesign Requirements for Water Pumps

Resolution No. 139, 2017 - Technical Regulations on Use of Certain Hazardous Substances in Electrical and Electronic Equipment

Standards used: ДСТУ EN IEC 63000:2020

Importer address:

LLC Grundfos Ukraine, Business Center Europe

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Phone: (+380) 44 237 0400

Email: ukraine@grundfos.com

This Ukrainian declaration of conformity is only valid when accompanying Grundfos instructions.



UA: Українська декларація відповідності

Ми, Grundfos, заявляємо про свою виключну відповідальність за те, що продукція, до якої відноситься ця декларація, відповідає вимогам українським постановам, стандартам та технічним умовам, щодо яких заявлена відповідність, як зазначено нижче:

Дійсно для продуктів Grundfos:

CRE, CREC, CRIE, CRIEC, CRNE, CRNEC, CRTE, MTRE, MTREC, MTHE, CME, CMEC

Постанова № 62 від 2013 р., Про затвердження Технічного регламенту безпеки машин

Постанова № 533 від 2018 р., Про внесення змін до деяких положень

Застосовані стандарти: ДСТУ EN 809:2015

Постанова № 804 від 2018 р., Встановлення системи для визначення вимог з екодизайну енергоспоживчих продуктів

Постанова № 154 від 2019 р., Вимоги до екодизайну водяних насосів

Постанова № 139 від 2017 р., Технічний регламент обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні

Застосовані стандарти: ДСТУ EN IEC 63000:2020

Адреса імпортера:

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Ел. пошта: ukraine@grundfos.com

Ця українська декларація відповідності дійсна лише за наявності інструкцій Grundfos.

Bjerringbro, November 1, 2022

Jimm Feldborg
Head of PD IND

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GB: Manufacturer and person empowered to sign the Ukrainian declaration of conformity
UA: Виробник та особа, уповноважена підписати українську декларацію відповідності
10000433957

Declaration of conformity



GB: Moroccan declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with Moroccan laws, orders, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

CRE, CRIE, CRNE, CRTE, BMS (MGE 0,37-26 kW)

Law No 24-09, 2011 Safety of products and services and the following orders:

Order No 2573-14, 2015 Safety Requirements for Low Voltage Electrical Equipment

Standards used: NM EN 809+A1:2015, NM EN 61800-5-1:2014

Order No 2574-14, 2015 Electromagnetic Compatibility

Standards used: NM EN 61800-3:2018

This Moroccan declaration of conformity is only valid when accompanying Grundfos instructions.



FR: Déclaration de conformité marocaine

Nous, Grundfos, déclarons sous notre seule responsabilité que les produits auxquels se réfère cette déclaration, sont conformes aux lois, ordonnances, normes et spécifications marocaines pour lesquelles la conformité est déclarée, comme indiqué ci-dessous :

Valable pour les produits Grundfos :

CRE, CRIE, CRNE, CRTE, BMS (MGE 0,37-26 kW)

Sécurité des produits et services, loi n° 24-09, 2011 et décrets suivants :

Exigences de sécurité pour les équipements électriques basse tension, ordonnance n° 2573-14, 2015

Normes utilisées : NM EN 809+A1:2015, NM EN 61800-5-1:2014

Compatibilité électromagnétique, ordonnance n° 2574-14, 2015

Normes utilisées : NM EN 61800-3:2018

Cette déclaration de conformité marocaine est uniquement valide lorsqu'elle accompagne la notice d'installation et de fonctionnement Grundfos.



AR: إقرار المطابقة المغربي

نحن، جروندفوس، نفر تحت مسؤوليتنا وحدنا بأن المنتجات التي يتعلّق بها الإقرار أدناه، تتوافق مع القوانين والقرارات والمعايير والمواصفات المغربية التي تم إقرار المطابقة بشأنها، كما هو موضح أدناه: سار على منتجات جروندفوس:

(CRE, CRIE, CRNE, CRTE, BMS (MGE 0,37-26 kW

قانون رقم 09-24، 2011 بشأن سلامة المنتجات والخدمات والقرارات التالية:

القرار رقم 14-2573، 2015 متطلبات السلامة للمعدات الكهربائية ذات الجهد المنخفض

المعايير المستخدمة: NM EN 809+A1:2015, NM EN 61800-5-1:2014

القرار رقم 14-2574، 2015 التوافق الكهرومغناطيسي

المعايير المستخدمة: NM EN 61800-3:2018

يكون إقرار المطابقة المغربي صالحًا فقط عند نشره كجزء من تعليمات جروندفوس.

Bjerringbro, June 1, 2023



Jimm Feldborg
Head of PD IND
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GB: Manufacturer and person empowered to sign the Moroccan declaration of conformity.

FR: Fabricant et personne habilitée à signer la Déclaration de conformité marocaine.

AR: الجهة المصنعة والشخص المفوض بتوقيع إقرار المطابقة المغربي.

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