

# MS, MMS

Safety instructions and other important information



**MS, MMS**  
Installation and operating instructions  
Other languages  
<http://net.grundfos.com/qr/i/98599768>



**SP**  
Installation and operating instructions  
Other languages  
<http://net.grundfos.com/qr/i/98074911>



## MS, MMS

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## English (GB) Safety instructions

### ■ 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.



Read this document before you install the product. Installation and operation must comply with local regulations and accepted codes of good practice.

### Unpacking



Be careful not to damage the motor cable with sharp tools when unpacking the motor.



The separate nameplate supplied with the motor is intended for being visible in electric panel during installation of the pump set.

### Storage and handling



If an MMS motor is stored, the shaft must be turned at least once a month. If a motor is stored for more than one year before installation, the rotating parts of the motor must be dismantled and checked before use.

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

Death or serious personal injury

- Stack the pumps with the biggest at the bottom, and do not stack above 1 m.
- Use lifting equipment approved for the weight of the product.
- Wear personal protective equipment.



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

Death or serious personal injury



- Stack the pumps with the biggest at the bottom, and do not stack above 1 m.
- Use lifting equipment approved for the weight of the product.
- Wear personal protective equipment.

### Frost protection



Special motors factory-filled with demineralised water must be stored at a temperature above the freezing point or emptied before storage.

### Installation requirements

#### **DANGER** Electric shock

Death or serious personal injury



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

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

Death or serious personal injury



- During handling, use lifting equipment which is approved for the weight of the product.
- Wear personal protective equipment

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

Death or serious personal injury



- During handling, use lifting equipment which is approved for the weight of the product.
- Wear personal protective equipment

### Checking the motor liquid



Check the level of motor liquid and refill if required. Use tap water



If frost protection is required, a special Grundfos liquid must be used to refill the motor.

## Grundfos MMS6, MMS8000, MMS10000 and MMS12000 submersible motors



Before fitting the motor to a pump after a long period of storage, lubricate the shaft seal by adding a few drops of water and turning the shaft.

### Motors suitable for horizontal installation

#### CAUTION

##### Hot surface

Minor or moderate personal injury



- If the pump is used for pumping hot liquids (40 to 60 °C), make sure that people cannot come into contact with the pump and the installation, e.g. by installing a guard.



During operation, the motor must always be completely submerged in the liquid. Make sure that the NPSH values of the mounted pump are fulfilled.

### Liquid temperatures/cooling



In case the stated flow velocity cannot be achieved, a flow sleeve must be installed

### Electrical connection

#### DANGER

##### Electric shock

Death or serious personal injury



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

#### DANGER

##### Electric shock

Death or serious personal injury



- The pump must be earthed.
- The pump must be connected to an external main switch and must be provided with means to locking it in the OFF (isolated) position. Type and requirements are specified in EN 60204-1, 5.3.2



The electrical connection must be carried out by an authorised person in accordance with local regulations.

### General



If an MS motor with temperature transmitter is connected to a frequency converter, the fuse melts and the transmitter becomes inactive. The transmitter can no longer be reactivated, consequently, the motor thereafter operates like one without a temperature transmitter.



To enable monitoring of the motor temperature when running at frequency converter operation, Grundfos recommends that a Pt100 or a Pt1000 sensor be installed.



During frequency converter operation, it is not advisable to run the motor at a frequency higher than the rated frequency (50 or 60 Hz). In connection with pump operation, it is important never to reduce the frequency (and consequently the speed) to such a level that the necessary flow of cooling liquid past the motor is no longer ensured.

### Single-phase motors

#### DANGER

##### Electric shock

Death or serious personal injury



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

#### DANGER

##### Electric shock

Death or serious personal injury



- The pump must be connected to protective earth.
- Switch off the power supply before starting any work on the product.
- Make sure that the power supply cannot be accidentally switched on.

#### DANGER

##### Electric shock

Death or serious personal injury



- When the motor has been thermally switched off, the motor terminals are still live. When the motor has cooled sufficiently, it will restart automatically.

### Required settings of the motor-protective circuit breaker



If this requirement is not met, the motor warranty will be invalidated.

### Cable sizing



Submersible motor cables are dimensioned for submersion in the liquid, and will not necessarily have sufficient cross-section to be in the air.

### Control of single-phase MS402



Single-phase MS402 submersible motors below 1.1 kW incorporate motor protection that cuts out the motor in case of excessive winding temperatures while the motor is still supplied with voltage. Allow for this when the motor forms part of a control system.

### Checking the direction of rotation of the pump set



The pump must not be started until the suction interconnector has been completely submerged in the liquid.

### Frequency converter



During frequency converter operation, it is not advisable to run the motor at a frequency higher than the rated frequency. In connection with pump operation, it is important never to reduce the frequency (and consequently the speed) to such a level that the necessary flow of cooling liquid past the motor is no longer ensured.



To enable monitoring of the motor temperature, Grundfos recommends that a Pt100 or a Pt1000 be installed.

### Requirements for the MS6000P to operate without sine-wave filter



- Local and national requirements regarding safety, EMI etc., must always be followed and can demand filtering due to, for instance noise suppression.
- Cables and other system components must be properly rated for VFD use.
- If the cables are longer than 300 m/ 1000 ft and/or the grid voltage is higher than 460 V, a sine-wave filter must still be used

### Motor installation

#### **DANGER** Electric shock



Death or serious personal injury

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

#### **DANGER** Electric shock



Death or serious personal injury

- Make sure that motor cable ends are not live before starting any work on the product.
- Make sure that the power supply cannot be accidentally switched on.

In case of unintended flow of water through a non-energized pump, there is a risk that the moving parts of the pump and the motor will start rotating, thereby generating voltage over the terminals. The size of the voltage depends on the speed of rotation. Consequently, the motor terminals must be considered as live until proven otherwise.

### Removing and fitting the cable guard



Once the cable guard is fitted, make sure that the pump chambers are aligned.

### Assembly of pump set on site

#### **DANGER** Electric shock



Death or serious personal injury

- Switch off the power supply before starting any work on the product.
- Make sure that the power supply cannot be accidentally switched on.
- Do not lower or lift the product by means of the motor cable.

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



Death or serious personal injury

- When the motor is to be assembled with the pump at the borehole, make sure to use suitable pipe clamps.
- Stay clear of the wire and cable while placing the motor in the borehole.

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

Death or serious personal injury



- When the motor is to be assembled with the pump at the borehole, make sure to use suitable pipe clamps.
- Stay clear of the wire and cable while placing the motor in the borehole.

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

Death or serious personal injury



- When the motor is to be assembled with the pump at the borehole, make sure to use suitable pipe clamps.
- Stay clear of the wire and cable while placing the motor in the borehole.

**Fitting the pump to the motor****WARNING****Sharp element**

Death or serious personal injury



- When mounting the facilitating pipe, wear personal protective equipment to avoid cutting on sharp edges.

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

Death or serious personal injury



- When the motor is to be assembled with the pump at the borehole, make sure to use suitable pipe clamps.
- Stay clear of the wire and cable while placing the motor in the borehole.

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

Death or serious personal injury



- Make sure to use suitable pipe clamps.
- Stay clear of the wire and cable while placing the motor in the borehole.

**Servicing the product****DANGER****Electric shock**

Death or serious personal injury



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

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

Death or serious personal injury



- Make sure to use suitable pipe clamps.
- Stay clear of the wire and cable while placing the motor in the borehole.

**DANGER****Toxic material**

Death or serious personal injury



- If a pump is used for a liquid injurious to health, the pump will be classified as contaminated.



Be careful not to bend or damage long pump sets when moving them from horizontal to vertical positions.



Grundfos recommends that a maximum 30 cm long facilitating pipe be fitted to the pump to facilitate handling of the pump during installation.



Make sure that the coupling between the pump and the motor engages properly.

**WARNING****Sharp element**

Death or serious personal injury



- For service, see the service instructions. Service must be performed by qualified personnel.

**MS6000P****DANGER****Magnetic field**

Death or serious personal injury



- The rotor dismantled from the motor must never be handled by anyone with a pacemaker.

**Lowering the pump****DANGER****Electric shock**

Death or serious personal injury



- Switch off the power supply before starting any work on the product.
- Make sure that the power supply cannot be accidentally switched on.
- Do not lower or lift the product by means of the motor cable.



**WARNING****Crushing of fingers**

Death or serious personal injury



- Keep the surroundings of the dismantled rotor free of magnetic objects, and be careful when placing the rotor on a magnetic surface.

**DANGER****Electric shock**

Death or serious personal injury



- Before starting any work on the product, make sure that motor cable ends are not live.
- Make sure that the power supply cannot be accidentally switched on.

If a flow of water unintentionally goes through a non-energized pump, there is a risk that the moving parts of the pump and the motor will start rotating, thereby generating voltage over the terminals. The size of the voltage depends on the speed of rotation. Consequently, the motor terminals must be considered as live until proven otherwise.

**Fault finding****DANGER****Electric shock**

Death or serious personal injury



- Before starting any work on the product, make sure that motor cable ends are not live.
- Make sure that the power supply cannot be accidentally switched on.

**DANGER****Toxic material**

Death or serious personal injury



- If a product is used for a liquid injurious to health, the pump will be classified as contaminated.

**MS6000P****DANGER****Magnetic field**

Death or serious personal injury



- The rotor dismantled from the motor must never be handled by anyone with a pacemaker.

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

Death or serious personal injury



- Keep the surroundings of the dismantled rotor free of magnetic objects and be careful when placing the rotor on a magnetic surface.

**DANGER****Electric shock**

Death or serious personal injury



- Before starting any work on the product, make sure that motor cable ends are not live.
- Make sure that the power supply cannot be accidentally switched on.

If a flow of water unintentionally goes through a non-energized pump there is a risk that the moving parts of the pump and the motor will start rotating, thereby generating voltage over the terminals. The size of the voltage depends on the speed of rotation. Consequently, the motor terminals must be considered as live until proven otherwise.

**Checking the motor and cable****DANGER****Electric shock**

Death or serious personal injury



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

**DANGER****Electric shock**

Death or serious personal injury



- Before starting any work on the product, make sure that motor cable ends are not live.
- Make sure that the power supply cannot be accidentally switched on.

If a flow of water unintentionally goes through a non-energized pump there is a risk that the moving parts of the pump and the motor will start rotating, thereby generating voltage over the terminals. The size of the voltage depends on the speed of rotation. Consequently, the motor terminals must be considered as live until proven otherwise.

**Disposing of the product**

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.

## Declaration of conformity

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### GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products MS, MMS, 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 MS, MMS, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sbližení právních předpisů členských států Evropského společenství.

### DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne MS, MMS 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 MS, MMS 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 MS, MMS, 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 MS, MMS, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EU-a.

### IT: Dichiarazione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti MS, MMS, ai quale si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

### BG: Декларация за съответствие на ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите MS, MMS, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕО.

### DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte MS, MMS, 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 MS, MMS, 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 MS, MMS, 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 MS, MMS, 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) MS, MMS termékek, amelyekre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

### LT: ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiamo, kad produktai MS, MMS, kuriems skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

**LV: ES atbilstības deklarācija**

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti MS, MMS, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par ES daļiņvalstu normatīvo aktu tuvināšanu.

**NL: EU-conformiteitsverklaring**

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten MS, MMS, 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.

**PL: Deklaracja zgodności UE**

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty MS, MMS, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

**PT: Declaração de conformidade UE**

A Grundfos declara sob sua única responsabilidade que os produtos MS, MMS, 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.

**RO: Declarația de conformitate UE**

Noi Grundfos declarăm pe propria răspundere că produsele MS, MMS, la care se referă această declarație, sunt în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

**RS: Deklaracija o usklađenosti EU**

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod MS, MMS, na koji se odnosi deklaracija ispod, u skladu sa delo prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

**RU: Декларация о соответствии нормам ЕС**

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия MS, MMS, к которым относится нижеприведённая декларация, соответствуют нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

**SE: EU-försäkran om överensstämmelse**

Vi, Grundfos, försäkrar under ansvar att produkterna MS, MMS, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådskdirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

**SI: Izjava o skladnosti EU**

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek MS, MMS, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic EU.

**SK: ES vyhlásenie o zhode**

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty MS, MMS na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

**TR: AB uygunluk bildirgesi**

Grundfos olarak, aşağıdaki bildirim konusu olan MS, MMS ürünlerinin, AB Üye ülkelerinin direktiflerinin yakınlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

**UA: Декларація відповідності директивам ЕУ**

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби MS, MMS, до яких відноситься нижченаведена декларація, відповідають директивам ЕУ, 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 MS, MMS 系列，其制造和性能完全符合以下所列欧盟委员会指令。

**KZ: Сәйкестік жөніндегі ЕО декларациясы**

Біз, Grundfos, ЕО мүше елдерінің заңдарына жақын төменде көрсетілген Кеңес директиваларына сәйкес төмендегі декларацияға қатысты MS, MMS өнімдері біздің жеке жауапкершілігімізде екенін мәлімдейміз.

**(EU) إقرار مطابقة الاتحاد الأوروبي (EU): AR**

نقر نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتجين MS, MMS، اللذين يختص بهما الإقرار أدناه، يكونان مطابقين لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EU).

**VI: Tuyên bố tuân thủ EU**

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm MS, MMS 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.

Valid for Grundfos products:MS402, MS4000,  
MS6000, MS6000P, MMS6, MMS8000, MMS10000,  
MMS12000

- Low Voltage Directive (2014/35/EU).  
Standard used: EN 60034-1: 2010.
- EMC Directive (2014/30/EU).  
Standard used: EN 60034-1: 2010.  
(Applies only to motors with Tempcon sensors)
- RoHS Directive: 2011/65/EU and 2015/863/EU  
Standards used: EN 63000:2018

This EU declaration of conformity is only valid when  
published as part of the Grundfos installation and  
operating instructions (publication number  
99464838).

Bjerringbro, 05/March/2021



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

## Declaration of conformity

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### 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 products:

MS402, MS4000, MS6000, MS6000P, MMS6,  
MMS8000, MMS10000, MMS12000

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- Electrical Equipment (Safety) Regulations 2016.  
Standard used: EN 60034-1:2010
- Electromagnetic Compatibility Regulations 2016  
Standard used: EN 60034-1:2010  
(Applies only to motors with Tempcon sensors.)
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2019  
Standard used: IEC EN 63000:2018

These motors must not be put into service until the machinery into which they are to be incorporated has been declared in conformity with the relevant directives.

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

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

Bjerringbro, 05/March/2021



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declaration of conformity.

10000354231

## 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:

MS402, MS4000, MS6000, MS6000P, MMS6, MMS8000, MMS10000, MMS12000

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 60034-1:2019

Order No 2574-14, 2015 Electromagnetic Compatibility

Standards used: NM EN 60034-1:2019

(Applies only to motors with Tempcon sensors)

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 :

MS402, MS4000, MS6000, MS6000P, MMS6, MMS8000, MMS10000, MMS12000

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 60034-1:2019

Compatibilité électromagnétique, ordonnance n° 2574-14, 2015

Normes utilisées : NM EN 60034-1:2019

(S'applique uniquement aux moteurs équipés de capteurs Tempcon)

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



AR: إقرار المطابقة المغربي

نحن، جرونڤوس، نقر تحت مسؤوليتنا وحدنا بأن المنتجات التي يتعلق بها الإقرار أدناه، تتوافق مع القوانين والقرارات والمعايير والمواصفات المغربية التي تم إقرار المطابقة بشأنها، كما هو موضح أدناه:

سار على منتجات جرونڤوس:

MS402, MS4000, MS6000, MS6000P, MMS6, MMS8000, MMS10000, MMS12000

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

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

المعايير المستخدمة: NM EN 60034-1:2019

القرار رقم 2574-14، 2015 التوافق الكهرومغناطيسي

المعايير المستخدمة: NM EN 60034-1:2019

(ينطبق فقط على المحركات المزودة بأجهزة استشعار Tempcon)

يكون إقرار المطابقة المغربي صالحاً فقط عند نشره كجزء من تعليمات جرونڤوس.

Bjerringbro, 05/March/2021



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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.

## Declaration of conformity

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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:

MS402, MS4000, MS6000, MS6000P MMS6, MMS8000, MMS10000, MMS12000

**Resolution No. 1067, 2015 - Technical Regulation of Low Voltage Electrical Equipment**

**Resolution No. 533, 2018 - Amendments to some provisions**

Standards used: ДСТУ EN 60034-1:2016

**Resolution No. 1077, 2015 - Technical Regulations on Electromagnetic Compatibility**

**Resolution No. 533, 2018 - Amendments to some provisions**

Standards used: ДСТУ EN 60034-1:2016

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

Standards used: ДСТУ EN IEC 63000:2020

(Applies only to motors with Tempcon sensors).

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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.

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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:

MS402, MS4000, MS6000, MS6000P MMS6, MMS8000, MMS10000, MMS12000

**Постанова № 1067 від 2015 р., Технічний регламент низьковольтного електричного обладнання**

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

Застосовані стандарти: ДСТУ EN 60034-1:2016

**Постанова № 1077 від 2015 р., Технічний регламент з електромагнітної сумісності обладнання**

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

Застосовані стандарти: ДСТУ EN 55014-1:2016

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

Застосовані стандарти: ДСТУ EN IEC 63000:2020

(Стосується тільки двигунів із датчиками Tempson).

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Ця українська декларація відповідності дійсна лише за наявності інструкцій Grundfos.

Bjerringbro, 16/February/2022

Jan Lyngholm

Technical Product Owner, Water Utility

Grundfos Holding A/S

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GB: Manufacturer and person empowered to sign the Ukrainian declaration of conformity

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ECM: 1367854
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**GRUNDFOS** 

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