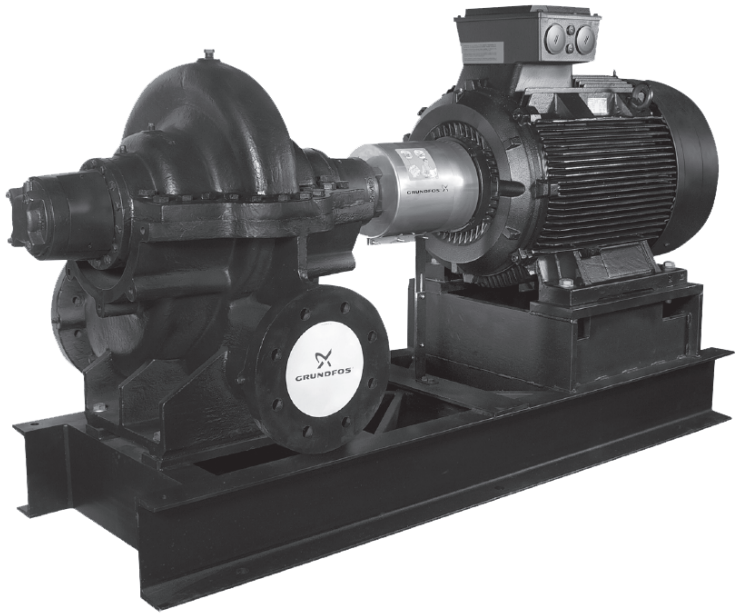


# LS

Safety instructions and other important information





# LS

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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.

### General information



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

### Installing the product



#### **WARNING** Crushing hazard

Death or serious personal injury

- Make sure that all installations are performed by persons experienced in the placement, alignment and connection of pumping equipment.



#### **WARNING** Crushing hazard

Death or serious personal injury

- Handling must be performed by qualified persons.
- When unloading the pump, lift equally at four or more points on the base frame. Do not lift by the motor or by the pump. Do not lift by the flanges or by the eyebolts on the motor.



#### **DANGER** Electric shock

Death or serious personal injury

- Before starting work on the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on.



#### **DANGER** Electric shock

Death or serious personal injury

- Before you remove the terminal box cover and before you remove or dismantle the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on.



#### **DANGER** Electric shock

Death or serious personal injury

- Whenever you use powered equipment in explosive surroundings, observe the rules and regulations generally or specifically imposed by the relevant responsible authorities or trade organisations.

### Mechanical installation



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

Death or serious personal injury

- Make sure that all installations are performed by persons experienced in the placement, alignment and connection of pumping equipment.

### Lifting the product



#### **WARNING** Crushing hazard

Death or serious personal injury

- Handling must be performed by qualified persons.
- When unloading the pump, lift equally at four or more points on the base frame. Do not lift by the motor or by the pump. Do not lift by the flanges or by the eyebolts on the motor.

### Foundation and preliminary alignment procedure



#### **DANGER** Electric shock

Death or serious personal injury

- Before starting work on the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

**Electrical connection****DANGER**  
**Electric shock**

Death or serious personal injury



- Before you remove the terminal box cover and before you remove or dismantle the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

**DANGER**  
**Electric shock**

Death or serious personal injury



- Whenever you use powered equipment in explosive surroundings, observe the rules and regulations generally or specifically imposed by the relevant responsible authorities or trade organisations.

**Starting up the product****CAUTION**  
**Biological hazard**

Minor or moderate personal injury



- When pumping drinking water, the pump must be flushed thoroughly with clean water before startup in order to remove any foreign matters, such as preservatives, test liquid or grease.

**DANGER**  
**Electric shock**

Death or serious personal injury



- Before interchanging two phases, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

**WARNING**  
**Hot or cold surface**

Death or serious personal injury



- Pay attention to the direction of the vent hole, and ensure that the escaping water does not cause injury to persons or damage to the motor or other components.
- In hot-water installations, pay special attention to the risk of injury caused by scalding hot water and hot surfaces.
- In cold-liquid installations, pay special attention to the risk of injury caused by cold liquids and cold surfaces.

**WARNING**  
**Crushing hazard**

Death or serious personal injury



- To protect persons from rotating machine parts, always install all guards after the installation is complete and before starting the pump.

**General information****CAUTION**  
**Biological hazard**

Minor or moderate personal injury



- When pumping drinking water, the pump must be flushed thoroughly with clean water before startup in order to remove any foreign matters, such as preservatives, test liquid or grease.

**Direction of rotation****DANGER**  
**Electric shock**

Death or serious personal injury



- Before interchanging two phases, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

**Priming****WARNING**  
**Hot or cold surface**

Death or serious personal injury



- Pay attention to the direction of the vent hole, and ensure that the escaping water does not cause injury to persons or damage to the motor or other components.
- In hot-water installations, pay special attention to the risk of injury caused by scalding hot water and hot surfaces.
- In cold-liquid installations, pay special attention to the risk of injury caused by cold liquids and cold surfaces.

**Greasing the grid coupling****WARNING**  
**Crushing hazard**

Death or serious personal injury



- To protect persons from rotating machine parts, always install all guards after the installation is complete and before starting the pump.

**Product introduction****CAUTION  
Hot liquid**

Minor or moderate personal injury

- Do not exceed the maximum operating temperature stated on the nameplate.

**Pumped liquids****CAUTION  
Hot Liquid**

Minor or moderate personal injury

- Do not exceed the maximum operating temperature stated on the nameplate.

**Servicing the product****CAUTION  
Biological hazard**

Minor or moderate personal injury

- Flush the pump thoroughly with water and rinse the pump parts in water after dismantling.

**WARNING  
Sound pressure**

Death or serious personal injury

- The sound pressure level is so high that hearing protection must be used.

**DANGER  
Electric shock**

Death or serious personal injury

- Before starting work on the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

**WARNING  
Hot or cold surface**

Death or serious personal injury



- Pay attention to the direction of the vent hole, and ensure that the escaping water does not cause injury to persons or damage to the motor or other components.



- In hot-water installations, pay special attention to the risk of injury caused by scalding hot water and hot surfaces.
- In cold-liquid installations, pay special attention to the risk of injury caused by cold liquids and cold surfaces.

**CAUTION  
Sharp element**

Minor or moderate personal injury

- Wear protective gloves to protect yourself against sharp edges on the impeller and wear rings.

**Contaminated pumps****CAUTION  
Biological hazard**

Minor or moderate personal injury

- Flush the pump thoroughly with water and rinse the pump parts in water after dismantling.

**Maintaining the product****DANGER  
Electric shock**

Death or serious personal injury

- Before starting work on the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

**WARNING  
Hot or cold surface**

Death or serious personal injury

- Pay attention to the direction of the vent hole, and ensure that the escaping water does not cause injury to persons or damage to the motor or other components.
- In hot-water installations, pay special attention to the risk of injury caused by scalding hot water and hot surfaces.
- In cold-liquid installations, pay special attention to the risk of injury caused by cold liquids and cold surfaces.

**Frequency of inspections****CAUTION  
Sharp element**

Minor or moderate personal injury

- Wear protective gloves to protect yourself against sharp edges on the impeller and wear rings.

## Taking the product out of operation

### WARNING

#### Hot or cold surface

Death or serious personal injury



- Pay attention to the direction of the vent hole, and ensure that the escaping water does not cause injury to persons or damage to the motor or other components.



- In hot-water installations, pay special attention to the risk of injury caused by scalding hot water and hot surfaces.
- In cold-liquid installations, pay special attention to the risk of injury caused by cold liquids and cold surfaces.

### WARNING

#### Harm to health

Death or serious personal injury



- Do not use antifreeze solution if you use the pump for public or potable-water supply.

## Long-term shutdown

### CAUTION

#### Hot or cold surface

Minor or moderate personal injury



- Make sure that the escaping water does not cause injury to persons or damage to the motor or other components.



- In hot-water installations, pay special attention to the risk of injury caused by scalding hot water.
- In cold-liquid installations, pay special attention to the risk of injury caused by cold liquids and cold surfaces.

### WARNING

#### Harm to health

Death or serious personal injury



- Do not use antifreeze solution if you use the pump for public or potable-water supply.

## Fault finding the product

### DANGER

#### Electric shock

Death or serious personal injury



- Before you remove the terminal box cover and before you remove or dismantle the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on.



## EU declaration of conformity

### GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product LS, to which the declaration below relates, is in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

### DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass das Produkt LS, auf das sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmt.

### ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que el producto LS al que hace referencia la siguiente declaración cumple lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la UE.

### GR: Δήλωση συμμόρφωσης ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι το προϊόν LS, στο οποίο αναφέρεται η παρακάτω δήλωση, συμμορφώνεται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

### HU: EU megfelelőségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) LS termék, amelyre az alábbi nyilatkozat vonatkozik, megfelel az Európai Unió tagállamainak jogi irányelveit összehangolt tanács alábbi előírásainak.

### NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat product LS, waarop de onderstaande verklaring betrekking heeft, in overeenstemming is 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 o produto LS, ao qual diz respeito a declaração abaixo, está 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 LS, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

### CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobek LS, na který se toto prohlášení vztahuje, je 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 produktet LS som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

### FR: Déclaration de conformité UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que le produit LS, auquel se réfère cette déclaration, est conforme 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 je proizvod LS, 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 il prodotto LS, al quale si riferisce questa dichiarazione, è conforme alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

### PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasz produkt LS, którego deklaracja niniejsza dotyczy, jest zgodny z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

### RO: Declarația de conformitate UE

Noi Grundfos declarăm pe propria răspundere că produsul LS, la care se referă această declarație, este 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 изделие LS, к которому относится нижеприведённая декларация, соответствует нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

**SE: EU-försäkran om överensstämmelse**

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

**TR: AB uygunluk bildirgesi**

Grundfos olarak, aşağıdaki bildirim konusu olan LS ürünlerinin, AB üye ülkelerinin direktiflerinin yakınlştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

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

نقر نحن، جرونڤوس، بمقتضى مسؤوليتنا الفردية بأن المنتج LS، الذي يختص به الإقرار أدناه، يكون مطابقاً لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EU).

**Pumps with motors and base frames**

- Machinery Directive (2006/42/EC and 2009/127/EC)  
Standards used:  
EN 809: 1998 + A1 :2009
- Ecodesign Directive (2009/125/EC)
- RoHS Directives (2011/65/EU and 2015/863/EU)  
Standard used:  
EN IEC 63000:2018

**Bare shaft pumps**

- Machinery Directives (2006/42/EC and 2009/127/EC)  
Standard used: EN 809: 1998 + A1 :2009
- RoHS Directives (2011/65/EU and 2015/863/EU)  
Standard used: EN IEC 63000 :2018

This declaration of conformity is only valid when published as part of the Grundfos Safety Instruction and other important information (publication number 99328883).

Suzhou, Jiang Su Province, PRC, 08 September 2022



Joachim Krogshave  
Head of PD CBS

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

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

## UK declaration of conformity

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### UK declaration of conformity

#### Pumps with motors and base frames

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

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- **Supply of Machinery (Safety) Regulations 2008**

Standard used: BS EN 809:1998 + A1:2009

- **The Ecodesign for Energy-Related Products and Energy Information Regulations 2021**

- **The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2019.**

Standards used: EN IEC 63000:2018

#### Bare shaft pumps

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

- **Supply of Machinery (Safety) Regulations 2008**

Standard used: EN 809:1998 + A1:2009

- **The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2019**

Standards used: EN IEC 63000:2018

This UK declaration of conformity is only valid when published as part of the Grundfos Safety Instruction and other important information (publication number 99328883).

Suzhou, Jiang Su Province, PRC, 08 September 2022



Joachim Krogshave  
Head of PD CBS

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

Manufacturer and person empowered to sign the UK declaration of conformity.  
[10000433356]

## Ukrainian declaration of conformity

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GB: Ukrainian declaration of conformity

### **Pumps with motors and base frames**

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:

LS

#### **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. 139, 2017 - Technical Regulations on Use of Certain Hazardous Substances in Electrical and Electronic Equipment**

Standards used: ДСТУ EN IEC 63000:2020

### **Bare shaft pump**

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:

LS

#### **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. 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

103, Stolychne Shose, UA-03026 Kyiv, Ukraine

Phone: (+380) 44 237 0400

Email: ukraine@grundfos.com

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

[99328883]

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UA: Українська декларація відповідності

**Насоси з двигунами та опорними рамами**

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:

LS

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

Застосовані стандарти: ДСТУ EN IEC 63000:2020

**Насос із вільним кінцем вала**

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:

LS

**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 № 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:

ТОВ "Грундфос Україна", Бізнес Центр "Європа"

Столичне шосе, 103, м. Київ, 03026, Україна

Телефон: (+380) 44 237 0400

Ел. пошта: ukraine@grundfos.com

Ця українська декларація відповідності дійсна лише за наявності інструкцій Grundfos.

Suzhou, Jiang Su Province, PRC, 08 September 2022

Joachim Krogshave

Head of PD CBS

Grundfos Holding A/S

Poul Due Jensens Vej 7

8850 Bjerringbro, Denmark

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

UA: Виробник та особа, уповноважена підписати українську декларацію відповідності

[10000433379]

RUS

## LS, LSV

### Руководство по эксплуатации

Руководство по эксплуатации на данное изделие является составным и включает в себя несколько частей:

Часть 1: настоящее «Руководство по эксплуатации».

Часть 2: электронная часть «Паспорт. Руководство по монтажу и эксплуатации» размещенная на сайте компании Грундфос. Перейдите по ссылке, указанной в конце документа.

Часть 3: информация о сроке изготовления, размещенная на фирменной табличке изделия.

#### Сведения о сертификации:

Насосы типа LS, LSV сертифицированы на соответствие требованиям Технических регламентов Таможенного союза: ТР ТС 004/2011 «О безопасности низковольтного оборудования»; ТР ТС 010/2011 «О безопасности машин и оборудования»; ТР ТС 020/2011 «Электромагнитная совместимость технических средств».

Этот раздел руководства по эксплуатации относится только к продуктам с маркировкой EAC на фирменной табличке.

KAZ

## LS, LSV

### Пайдалану бойынша нұсқаулық

Атаулы өнімге арналған пайдалану бойынша нұсқаулық құрамалы болып келеді және келесі бөлімдерден тұрады:

1 бөлім: атаулы «Пайдалану бойынша нұсқаулық»

2 бөлім: Грундфос компаниясының сайтында орналасқан электронды бөлім «Төлқұжат, Құрастыру және пайдалану бойынша нұсқаулық». Құжат соңында көрсетілген сілтеме арқылы өтіңіз.

3 бөлім: өнімнің фирмалық тақтасында орналасқан шығарылған уақыты жөніндегі мәлімет

#### Сертификаттау туралы ақпарат:

LS, LSV типті сорғылары «Төмен вольтты жабдықтардың қауіпсіздігі туралы» (ТР ТС 004/2011), «Машиналар және жабдықтар қауіпсіздігі туралы» (ТР ТС 010/2011) «Техникалық заттардың электрлі магниттік сәйкестілігі» (ТР ТС 020/2011) Кеден Одағының техникалық регламенттерінің талаптарына сәйкес сертификатталды.

Пайдалану нұсқаулығының бұл бөлімі тек тақтайшадағы EAC белгісі бар өнімдерге ғана қатысты.

KG

## LS, LSV

### Пайдалануу боюнча колдонмо

Аталган жабдууну пайдалануу боюнча колдонмо курамдык жана өзүнө бир нече бөлүкчөнү камтыйт:

1-Бөлүк: «Пайдалануу боюнча колдонмо»

2-Бөлүк: «Паспорт. Пайдалануу жана монтаж боюнча колдонмо» электрондук бөлүгү Грундфос компаниянын сайтында жайгашкан. Документтин аягында көрсөтүлгөн шилтемеге кайрылыңыз.

3-Бөлүк: жабдуунун фирмалык тактасында жайгашкан даярдоо мөөнөтү тууралуу маалымат.

#### Шайкештик жөнүндө декларация

LS, LSV түрүндөгү соргүчтар Бажы Биримдиктин Техникалык регламенттин талаптарына ылайыктуу тастыкталган: ТР ТБ 004/2011 «Төмөн вольттук жабдуунун коопсуздугу жөнүндө»; ТР ТБ 010/2011 «Жабдуу жана машиналардын коопсуздугу жөнүндө»; ТР ТБ 020/2011 «Техникалык каражаттардын электрмагниттик шайкештиги».

Куралынын Бул бөлүмдө гана EAC Ассошиэйтед жөнүндө белгиси менен азыктарына карата колдонулат.

ARM

## LS, LSV

### Հահագործման ձեռնարկ

Տվյալ սարքավորման շահագործման ձեռնարկը բաղկացած է մի քանի մասերից.

Մաս 1. սույն «Հահագործման ձեռնարկ»:

Մաս 2. էլեկտրոնային մաս. այն է՝ «Անձնագիր: Մոնտաժման և

շահագործման ձեռնարկ» տեղադրված «Գրունդֆոս» Անցեք փաստաթղթի վերջում նշված հղումով:  
Մաս 3. տեղեկություն արտադրման ամսաթվի վերաբերյալ՝ նշված սարքավորման պիտակի վրա:

Տեղեկություններ հավաստագրման մասին՝

LS, LSV տիպի պոմպերը սերտիֆիկացված են համաձայն Մաքսային Միության տեխնիկական կանոնակարգի պահանջների՝ TP TC 004/2011 «Ցածրավոլտ սարքավորումների վերաբերյալ», TP TC 010/2011 «Մեքենաների և սարքավորումների անվտանգության վերաբերյալ» ; TP TC 020/2011

«Տեխնիկական միջոցների էլեկտրամագնիսական համատեղելիության վերաբերյալ»:

Օգտագործման ձեռնարկի այս բաժինը վերաբերում է միայն տիպի ափսեի վրա EAC- ի նշագրով ապրանքներին:



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Last updated: June 2022

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