

SL1, SLV

1.1-11 kW, 50/60 Hz DIN

Safety instructions and other important information



SL1 and SLV pumps
Installation and operating instructions
Other languages
<http://net.grundfos.com/qr/i/96771279>

SL1, SLV

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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.



This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

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.



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.

Target groups

These installation and operating instructions are intended for professional installers.

Product description

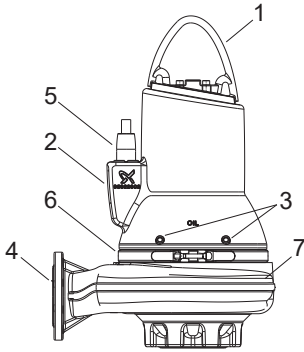
This manual includes instructions for installation, operation, and maintenance of Grundfos SL1 and SLV submersible sewage and wastewater pumps with 1.1 to 11 kW motors. The pumps are designed for pumping domestic, municipal, and industrial sewage and wastewater.

The following pump types are available:

- SL1 sewage pumps with S-tube® impeller
- SLV sewage pumps with SuperVortex free-flow impeller.

The pumps can be installed on an auto-coupling system or stand freely on the bottom of a tank. Grundfos SL1 and SLV pumps are designed with S-tube® or SuperVortex impellers to ensure reliable and optimum operation.

The manual also includes specific instructions for the explosion-proof pumps.



L1 pump

Pos.	Description
1	Lifting bracket
2	Nameplate
3	Oil screws
4	Outlet flange
5	Cable plug
6	Clamp
7	Pump housing

Pumped liquids and intended use

SL1 and SLV pumps are designed for pumping the following:

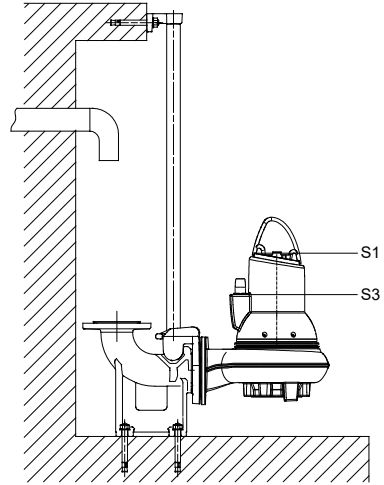
- large quantities of drainage and surface water
- domestic wastewater with discharge from toilets
- wastewater with a high content of fibres (SuperVortex impeller)
- municipal and commercial sewage and wastewater.

Operating conditions

SL1 and SLV pumps are suitable for the following operating situations:

- **S1 operation** (continuous operation), the pump must always be covered by the pumped liquid to the top of the motor.
- **S3 operation** (intermittent operation), the pump must always be covered by the pumped liquid up to the top of the cable entry.

TM042648



Stop levels

Pos.	Description
1	S1 operation
2	S3 operation

TM042649

pH values

SL1 and SLV pumps in permanent installations can be used for pumping liquids with the following pH values:

Pump type	Material variant	Material	pH value
SL1/SLV	Standard	Cast-iron impeller and pump housing	6.5 - 14 ¹⁾
SL1/SLV	Q	Stainless-steel impeller and cast-iron pump housing	6-14 ¹⁾

¹⁾ For fluctuating pH values, the range is pH 4 to 14.

Liquid temperature

0-40 °C

For non-explosion-proof pumps, a temperature of up to 60 °C is permissible for short periods (maximum 3 minutes).

Ambient temperature

-20 to +40 °C



Explosion-proof pumps must never pump liquids of a temperature higher than +40 °C.

For explosion-proof pumps, the ambient temperature on the installation site must be in the range of -20 °C to +40 °C.



For explosion-proof pumps with a WIO sensor, the ambient temperature on the installation site must be in the range of 0-40 °C.

For non-explosion-proof pumps, the ambient temperature may exceed +40 °C for a short period (maximum 3 minutes).

Density and viscosity of the pumped liquid

When pumping liquids with a density and/or a kinematic viscosity higher than water, use motors with correspondingly higher outputs.

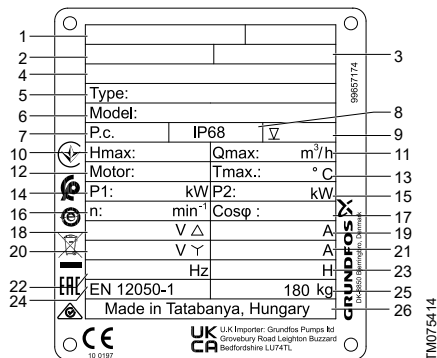
Flow velocity	Keep a minimum flow velocity to avoid sedimentation in the piping system. Recommended flow velocities: in vertical pipes: 0.7 m/s in horizontal pipes: 1.0 m/s.
Free spherical passage	From 50 to 100 mm, depending on pump size.
Operating mode	Maximum 20 starts per hour.

Identification

Nameplate

The nameplate states the operating data and approvals applying to the pump. The nameplate is fitted to the side of the motor housing close to the cable entry.

Fix the extra nameplate supplied with the pump to the cable end in the control cabinet.



Nameplate

Pos.	Description
1	Numbers of approval bodies
2	EU/IEC Explosion protection certificate No
3	UK Explosion-protection certificate No
4	Ex description
5	Type designation
6	Model number
7	Production code (year and week)
8	Enclosure class to IEC
9	Maximum installation depth
10	Maximum head
11	Maximum flow rate
12	Number of phases
13	Maximum liquid temperature
14	Rated input power
15	Shaft power
16	Rated speed
17	Power factor
18	Rated voltage, D
19	Rated current, D
20	Rated voltage, Y
21	Rated current, Y
22	Frequency

TM075414

Pos.	Description
23	Insulation class
24	Construction Products Regulation standard
25	Weight without cable
26	Country of production

Type key

The pump can be identified by the type designation stated on the nameplate. Example:

SLV.80.80.40.A.Ex.4.50.0D.Q

Code	Designation	Explanation
SL	Pump type	Grundfos wastewater pump
1	Impeller type	S-tube® impeller
V		SuperVortex impeller
50	Free spherical passage [mm]	Maximum solids size
65		
80		
100		
65	Pump outlet [mm]	Nominal outlet diameter
80		
100		
150	Power [kW]	Output power P2/10
40		
Blank	Sensor version	Standard version
A		Sensor version
Blank	Pump version	Non-explosion-proof version
Ex		Explosion-proof version
2	Number of poles	2-pole
4		4-pole
50	Frequency [Hz] ²⁾	50 Hz
60		60 Hz

Approvals

SL1 and SLV pumps are tested by Dekra/KEMA. The explosion-proof versions have the following examination certificates:

- ATEX(EU): KEMA08ATEX0125X
- IECEX: IECEX KEM08.0039X.

All certificates are issued by Dekra.

Approval standards

SL1 and SLV pumps have the following explosion protection classifications:

ATEX:

Code	Designation	Explanation
0B	Voltage and starting method	3 × 400-415 V, direct-on-line connection
0D		3 × 380-415 V, direct-on-line connection
1D		3 × 380-415 V, star-delta connection
0E		3 × 220-240 V, direct-on-line connection
1E		3 × 220-240 V, star-delta connection
0F		3 × 220-277 V, star-delta connection
0G		3 × 380-480 V, star-delta connection
1F		3 × 220-277 V, delta / 380-480 V star connection
1G		3 × 380-480 V, star-delta connection
Blank		1 st generation
A	Generation	2 nd generation
B		3 rd generation
C		4 th generation
Blank	Pump materials	Cast-iron impeller, pump housing, and motor housing
Q		Stainless-steel impeller, cast-iron pump housing, and motor housing
Blank	Customisation	Pump in a standard range
Z		Custom-built pump

2) Maximum frequency in case of frequency converter operation.

Direct-drive pump without sensor:	Ⓔ II 2 G Ex db h IIB T4 Gb
Direct-drive pump with sensor:	Ⓔ II 2 G Ex db eb h mb IIB T4 Gb
Pump driven by frequency converter without sensor:	Ⓔ II 2 G Ex db h IIB T3 Gb
Pump driven by frequency converter with sensor:	Ⓔ II 2 G Ex db eb h mb IIB T3 Gb

IECEX: IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-7:2017, IEC 60079-18:2017.

Pump without sensor:	Ex db h IIB T3,T4 Gb
Pump with sensor:	Ex db eb h mb T3,T4 Gb

Europe

Directive/standard	Code	Description
ATEX	CE 0344	CE marking of conformity according to the ATEX Directive 2014/34/EU. 0344 is the number of the approved body that has certified the quality system for ATEX.
	Ⓔ	The equipment conforms to the Harmonised European standard.
	II	Equipment group according to the ATEX Directive, defining the requirements applicable to the equipment in this group.
	2	Equipment category according to the ATEX Directive, defining the requirements applicable to the equipment in this category.
	G	Explosive atmosphere caused by gases or vapours.
Harmonised European standard	Ex	Marking of explosion protection.
	h	Constructional safety "c" and Liquid immersion "k" according to EN ISO 80079-36 and EN ISO 80079-37
	db	Flameproof enclosure according to EN 60079-1
	eb	WIO sensor protection according to EN 60079-7
	mb	WIO sensor insulation according to EN 60079-18
	IIB	Classification of gases, see EN IEC 60079-0. Gas group B includes gas group A.
	T4/T3	The maximum surface temperature is 135 °C / 200 °C according to EN IEC 60079-0.
	Gb	Equipment protection level.

The standard variants are approved by TÜV LGA (approved body under the Construction Products Directive) according to EN 12050-1 or EN 12050-2 as specified on the nameplate.

Australia and New Zealand

Explosion-proof variants for Australia and New Zealand are approved Ex db h IIB T3,T4 Gb (without WIO sensor) or Ex db eb h mb T3,T4 Gb (with WIO sensor).

Standard	Code	Description
IEC Standard	Ex	= Area classification according to IEC 60079-10-1
	h	= Constructional safety "c" and Liquid immersion "k" according to ISO 80079-36 and ISO 80079-37.
	db	= Flameproof enclosure according to IEC 60079-1.
	eb	= WIO sensor protection according to IEC 60079-7.
	mb	= WIO sensor encapsulation according to IEC 60079-18.
	II B	= Classification of gases, see IEC 60079-0:2017. Gas group B includes gas group A.
	T4/T3	= Maximum surface temperature is 135 °C / 200 °C according to IEC 60079-0.
	Gb	= Equipment protection level.

Transporting the product



**CAUTION
Crushing hazard**

Minor or moderate personal injury

- Make sure the pump cannot roll or fall over.

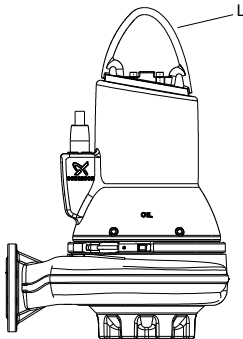
Handling and lifting the product



**WARNING
Crushing hazard**

Death or serious personal injury

- Always lift the pump by its lifting bracket or by a forklift truck if the pump is fixed on a pallet. Never lift the pump by the power cable, hose, or pipe.



TM063920

Lifting bracket

Pos.	Description
L	Lifting bracket

Safety



Pump installation in tanks must be carried out by specially trained persons.

Work in or near tanks must be carried out according to local regulations.



Persons must not work in the installation area when the atmosphere is potentially explosive.



**WARNING
Crushing hazard**

Death or serious personal injury

- Make sure that the lifting bracket is tightened before lifting the pump. Carelessness during lifting or transport may cause personal injury or damage to the pump.



**WARNING
Electric shock**

Death or serious personal injury

- Connect the pump to an external main switch which ensures all-pole disconnection with a contact separation according to EN 60204 1. It must be possible to lock the main switch in position 0. The electrical connection must comply with local regulations.

Potentially explosive environments



SL1 and SLV pumps must under no circumstances be used to pump explosive, flammable, or combustible liquids.



The classification of the installation site must be approved by the local fire-fighting authorities.

Special conditions for safe use of SL1 and SLV explosion-proof pumps:

1. Make sure the moisture switch and thermal switches are connected in the same circuit but have separate alarm outputs (motor stop) in case of high humidity or high temperature in the motor.
2. Bolts used for replacement must be class A2-70 or better according to EN/ISO 3506-1.
3. Contact the manufacturer for information on the dimensions of the flameproof joints.
4. The level of pumped liquid must be controlled by two level switches connected to the motor control circuit. The minimum level depends on the installation type and is specified in this installation and operating instructions.
5. Make sure the permanently attached cable is suitably mechanically protected and terminated in a suitable terminal board placed outside the potentially explosive area.
6. The sewage pumps have an ambient temperature range of -20 °C to +40 °C and a maximum process temperature of +40 °C. The minimum ambient temperature for a pump with a water-in-oil (WIO) sensor is 0 °C.
7. The thermal protection in the stator windings has a nominal switch temperature of 150 °C and must guarantee the disconnection of the power supply. The power supply must be reset manually.
8. The control unit must protect the WIO sensor against short circuit current of the supply to which it is connected. The maximum current from the control unit must be limited to 350 mA.
9. In case of frequency converter use, the maximum surface temperature of the pump can be 200 °C.
10. The WIO sensor is intended for use only with a galvanically isolated circuit.
11. The lock nut of the cable connector must only be replaced with an identical one.
12. The WIO sensor must be connected according to these installation instructions.



EX pumps are equipped with a WIO sensor optionally.

Mechanical installation



Compliance with the standard EN 60079-14 is a customer responsibility.



Pump installation in tanks must be carried out by specially trained persons. Work in or near tanks must be carried out according to local regulations.



Persons must not work in the installation area when the atmosphere is potentially explosive.

WARNING Crushing hazard

Death or serious personal injury



- During installation, always support the pump by lifting chains or placing it in a horizontal position to secure stability.



Prior to installation, make sure the tank bottom is even.

WARNING Electric shock

Death or serious personal injury



- Before beginning the installation, switch off the power supply and lock the main switch in position 0.
- Make sure that the power supply cannot be switched on unintentionally.
- Any external voltage connected to the pump must be switched off before working on the pump.

WARNING Crushing of hands

Death or serious personal injury



- Do not put your hands or any tool into the pump inlet or outlet port after the pump is connected to the power supply unless the pump has been switched off by removing the fuses or switching off the main switch. Make sure that the power supply cannot be switched on unintentionally. Make sure that all the rotating parts have stopped moving.

CAUTION**Crushing hazard**

Minor or moderate personal injury

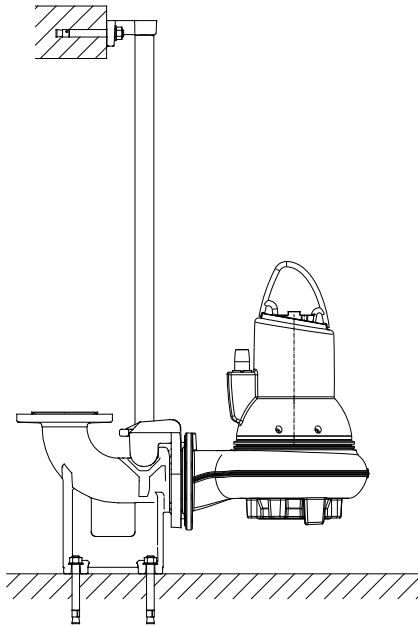


- Use the lifting bracket only for lifting the pump. Do not use it to hold the pump during operation.

Installation types

SL1 and SLV pumps are designed for the following installation types:

- submerged installation on auto coupling
- free-standing submerged installation on a ring stand.

Submerged installation on auto coupling

TM042650

Submerged installation on auto coupling

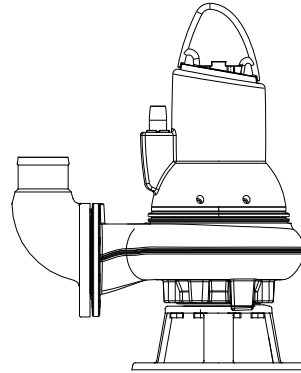


Before beginning installation procedures, make sure that the atmosphere in the tank is not potentially explosive.

Inspect the oil level and condition every 3000 operating hours or at least once a year.



When the pump is new or after replacement of the shaft seal, check the oil level and water content after one week of operation.

Free-standing submerged installation on a ring stand

TM042651

Free-standing submerged installation on a ring stand

Torques for inlet and outlet flanges**Grade 4.6 (5) galvanised steel screws and nuts**

DN	DC [mm]	Screws	Specified torques rounded off by ± 5 [Nm]	
			Slightly oiled	Well lubricated
DN 65	145	4 × M16	70	60
DN 80	160	8 × M16	70	60
DN 100	180	8 × M16	70	60
DN 150	240	8 × M20	140	120

Grade A2.50 (AISI 304) steel screws and nuts

DN	DC [mm]	Screws	Specified torques rounded off by ± 5 [Nm]	
			Slightly oiled	Well lubricated
DN 65	145	4 × M16	-	60
DN 80	160	8 × M16	-	60
DN 100	180	8 × M16	-	60
DN 150	240	8 × M20	-	120



The gasket must be a full face, reinforced paper gasket, such as Klingersil C4300. If softer gasket material is used, torques must be reconsidered.

Electrical connection

DANGER **Electric shock**

Death or serious personal injury



- Connect the pump to an external main switch that ensures all-pole disconnection with a contact separation according to EN 60204-1. It must be possible to lock the main switch in position 0. The electrical connection must comply with local regulations.

Level controllers

The pump must not run dry. Dry running may cause ignition hazard.



Install an independent secondary level switch to the same level to ensure that the pump is stopped in case the primary stop level switch is not working.

Switches and sensors



Pumps for hazardous locations must be connected to a control box with a motor protection relay with IEC trip class 10.

Do not install Grundfos control boxes, pump controllers, Ex barriers, and the free end of the power cable in potentially explosive environments.

The classification of the installation site must be approved by the local fire-fighting authorities.

On explosion-proof pumps, make sure that an external earth conductor is connected to the external earth terminal on the pump using a secure cable clamp. Clean the surface of the external earth connection and mount the cable clamp.



The cross-section of the earth conductor must be at least 4 mm², such as type H07 V2-K (PVT 90°) yellow and green.

Make sure that the earth connection is protected from corrosion.

Make sure that all protective equipment is connected correctly.

Float switches used in potentially explosive environments must be approved for this application. They must be connected to the Grundfos LC 231 or LC 241 pump controller through the intrinsically safe barrier to ensure a safe circuit.

DANGER **Electric shock**

Death or serious personal injury



- If the supply cable is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons.



Before installation and the first startup of the pump, check the condition of the cable to avoid short circuits.

Pumps with WIO sensor

CAUTION **Electric shock**



- For safe installation and operation of pumps equipped with a WIO sensor, an RC filter is recommended. If an RC filter is installed to avoid any kind of transient, the RC filter must be installed between the power connector and the pump.

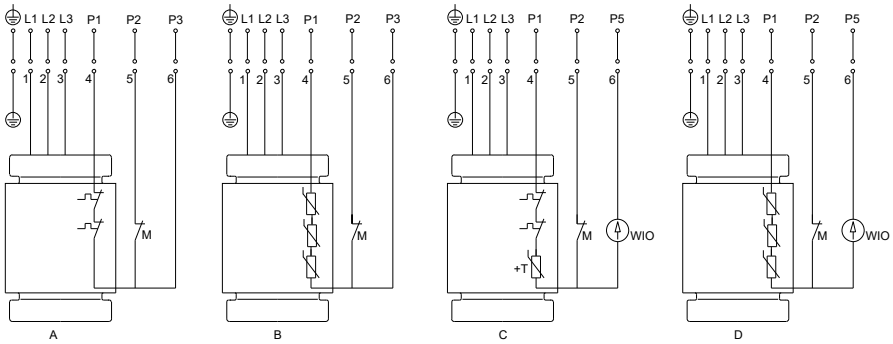
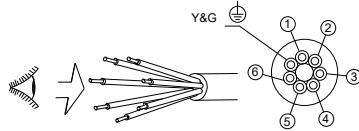
Wiring diagrams


WARNING
Electric shock

Death or serious personal injury

- Make sure the earth and phase conductors are not mixed up. Make sure the earth conductor is connected first. Make sure that the product is earthed properly.

The pumps are supplied with either a 7- or a 10-core cable. See the wiring diagrams below.

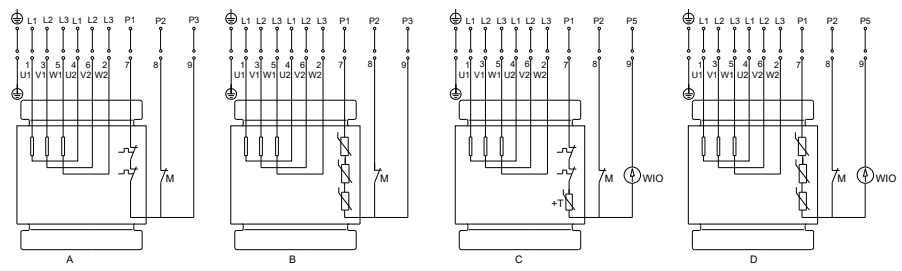
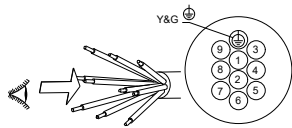


TM082914

Wiring diagram, 7-core cable, DOL

Pos.	Description
Y&G	Yellow and green
A	Standard version with thermal switches and moisture switch
B	Standard version with PTC thermistors and moisture switch ³⁾
C	Sensor version with thermal switches, Pt1000, moisture switch and WIO sensor
D	Sensor version with PTC thermistors, moisture switch and WIO sensor ³⁾

³⁾ 4 kW and larger pumps sold in Australia and New Zealand are fitted with a PTC thermistor.

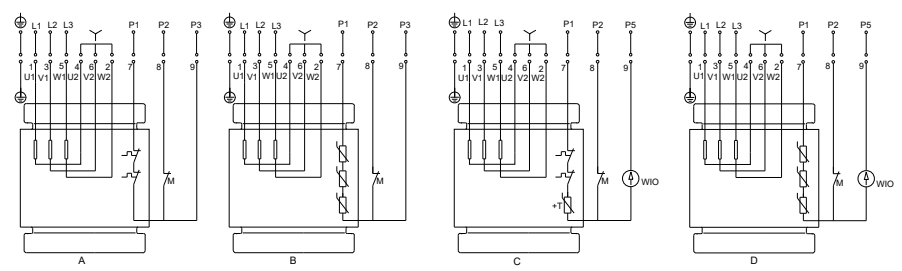
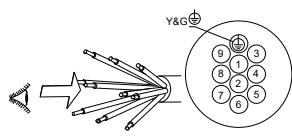


TM082915

Wiring diagram, 10-core cable, star/delta (Y/D)

Pos.	Description
Y&G	Yellow and green
A	Standard version with thermal switches and moisture switch
B	Standard version with PTC thermistors and moisture switch ⁴⁾
C	Sensor version with thermal switches, Pt1000, moisture switch and WIO sensor
D	Sensor version with PTC thermistors, moisture switch and WIO sensor ⁴⁾

4) 4 kW and larger pumps sold in Australia and New Zealand are fitted with a PTC thermistor.

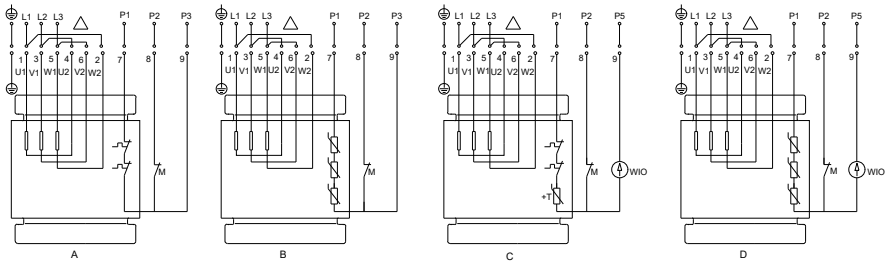
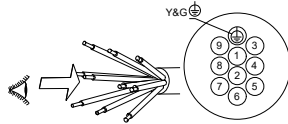


TM082906

Wiring diagram, 10-core cable, star-connected (Y)

Pos.	Description
Y&G	Yellow and green
A	Standard version with thermal switches and moisture switch
B	Standard version with PTC thermistors and moisture switch ⁵⁾
C	Sensor version with thermal switches, Pt1000, moisture switch and WIO sensor
D	Sensor version with PTC thermistors, moisture switch and WIO sensor ⁵⁾

5) 4 kW and larger pumps sold in Australia and New Zealand are fitted with a PTC thermistor.



TMC82907

Wiring diagram, 10-core cable, delta-connected (D)

Pos.	Description
Y&G	Yellow and green
A	Standard version with thermal switches and moisture switch
B	Standard version with PTC thermistors and moisture switch ⁶⁾
C	Sensor version with thermal switches, Pt1000, moisture switch and WIO sensor
D	Sensor version with PTC thermistors, moisture switch and WIO sensor ⁶⁾

6) 4 kW and larger pumps sold in Australia and New Zealand are fitted with a PTC thermistor. To find out whether the pump is fitted with a thermal switch or a PTC thermistor, measure the motor winding resistance. See the table below.

To find out whether the pump is fitted with a thermal switch or a PTC thermistor, measure the motor winding resistance. See the table below.

	Without cable	With 10 m cable	With 15 m cable
Thermal switch	< 50 mΩ	< 320 mΩ	< 390 mΩ
PTC thermistor	> 100 mΩ	> 370 mΩ	> 440 mΩ

Moisture switch

CAUTION Electric shock



Minor or moderate personal injury

- The motor-protective circuit breaker of the pump controller must include a circuit that automatically disconnects the power supply in case the protective circuit for the pump is opened.

Frequency converter operation



If the motor is operated a frequency converter, the temperature class of the explosion-proof pumps must be T3.

All SL1 and SLV pump types are designed for frequency converter operation to keep the power consumption at a minimum.

To avoid sedimentation in the pipes, operate the speed-controlled pump at a flow rate above 1 m/s. In this product range, only a negligible amount of bearing currents occur during frequency converter operation.

For frequency converter operation, observe the following:

- Before installing a frequency converter, calculate the lowest allowable frequency in the installation to avoid zero flow.
- Do not reduce the motor speed to less than 50 % of the rated speed.
- Keep the flow velocity above 1 m/sec.
- Let the pump run at rated speed at least once a day to prevent sedimentation in the piping system.
- Do not exceed the frequency indicated on the nameplate to avoid motor overload.
- Keep the power cable as short as possible. The peak voltage increases with the length of the power cable. See the data sheet for the frequency converter used.
- Use input and output filters on the frequency converter. See the data sheet for the frequency converter used.
- Use screened power cable if there is a risk that electrical noise can disturb other electrical equipment. See the data sheet for the frequency converter used.
- The thermal protection of the motor must be connected.
- The minimum switching frequency is 2.5 kHz.
- Variable switching frequency is accepted.
- Peak voltage and dU/dt must be in accordance with the table below. The values stated are maximum values supplied to the motor terminals. The cable influence is not taken into account. See

the frequency converter data sheet regarding the actual values and the cable influence on the peak voltage and dU/dt.

Maximum repetitive peak voltage [V]	Maximum dU/dt U _N 400 V [V/μ sec.]
850	2000

- If the pump is an Ex-approved pump, check if the Ex certificate of the specific pump allows the use of a frequency converter.
- Set the frequency converter U/f ratio according to the motor data.
- Local regulations and standards must be complied with.

When operating the pump with a frequency converter, consider the following:

- Set the frequency converter for constant torque operation. Pulse width modulation should be used.
- The locked-rotor torque may be lower, depending on the frequency converter type. See the installation and operating instructions for the selected frequency converter.
- Frequency converter use can increase the wear on the shaft seal and bearings.
- The noise level may increase. See the installation and operating instructions for the frequency converter used.
- The working condition of bearings and shaft seal may be affected.



For further information on pumps operated with a frequency converter, visit the Grundfos Product Center at <https://productselection.grundfos.com>.

For further information about the frequency converter operation, see the data sheet and the installation and operating instructions of the selected frequency converter.

Startup

DANGER Electric shock

Death or serious personal injury



- Before starting work on the pump, make sure that the fuses are removed or the main switch is switched off. Make sure that the power supply cannot be switched on unintentionally. Make sure that all protective equipment is connected correctly. The pump must not run dry.



DANGER

Crushing hazard

Death or serious personal injury

- Do not open the clamp during operation.

General startup procedure



Check that there is positive inlet pressure before starting up the pump.



To remove trapped air from the pump housing, tilt the pump by the lifting chain during operation.



In case of abnormal noise or vibrations, stop the pump immediately. Do not restart the pump until the cause of the fault is identified and eliminated.

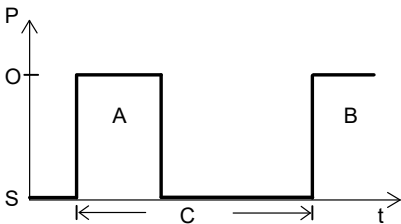
Operating modes

The pumps are designed for intermittent operation (S3). When completely submerged, the pumps can also operate continuously (S1).

S3, intermittent operation:

S3 operation is a series of 10-minute duty cycles (TC). Each cycle has a 4-minute period of constant load followed by a 6-minute period of rest. Thermal equilibrium is not reached during the cycle.

In this operating mode, the pump is partly submerged in the pumped liquid. The minimum liquid level is at the top of the cable entry.



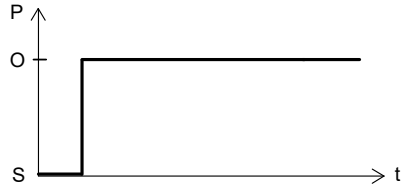
S3, intermittent operation

Pos.	Description
O	Operation
S	Stop
A	4 min.
B	6 min.
C	10 min.

S1, continuous operation:

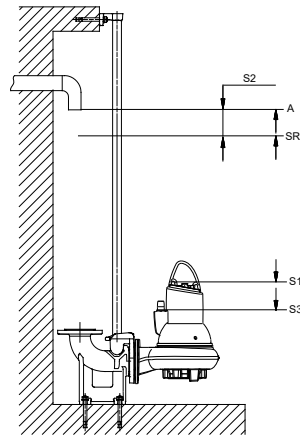
In this operating mode, the pump can operate continuously without being stopped for cooling.

Being completely submerged, the pump is sufficiently cooled by the surrounding liquid.



S1, continuous operation

Pos.	Description
O	Operation
S	Stop



Start and stop levels

Pos.	Description
A	Alarm
SR	Start
S2	Min. 10 cm
S1	Stop S1 operation
S3	Stop S3 operation

Servicing the product



Compliance with the standards IEC 60079-17 and IEC 60079-19 is a customer responsibility.



CAUTION Sharp element

Minor or moderate personal injury

- Wear protective gloves when touching the impeller.



All regulations applying to pumps installed in potentially explosive environments must be observed.

Make sure that no work is carried out in a potentially explosive atmosphere.



Before beginning installation procedures, make sure that the atmosphere in the tank is not potentially explosive.

CAUTION Crushing hazard

Minor or moderate personal injury



- Always support the pump by lifting chains or placing it in a horizontal position to secure stability. During maintenance and service, including transport to service workshop, always support the pump.

WARNING Crushing of hands

Death or serious personal injury



- Before starting work on the pump, make sure that the fuses are removed or the main switch is switched off. Make sure that the power supply cannot be switched on unintentionally. Make sure that all protective equipment is connected correctly. Do not put your hands or any tool into the pump inlet or outlet after the pump has been connected to the power supply.

DANGER Crushing of hands

Death or serious personal injury



- Before starting work on the pump, make sure that the main switch is locked in position 0. Make sure that all rotating parts have stopped moving.



Maintenance work on explosion-proof pumps must be carried out by Grundfos or an authorised service workshop. This applies to both electric and hydraulic components.



WARNING Electric shock

Death or serious personal injury

- The cables must only be replaced by Grundfos or an authorised service workshop.



WARNING Biological hazard

Death or serious personal injury

- Wear appropriate personal protective equipment and clothing. Observe the local hygiene regulations in force. Flush the pump thoroughly with clean water and rinse the pump parts after dismantling. The product is classified as contaminated if it is used for toxic liquid.



If the pump is not in operation for some time, vent it to prevent the buildup of explosive gasses.



CAUTION Crushing hazard

Minor or moderate personal injury

- Make sure that the lifting bracket is tightened before lifting the pump. Always lift the pump by its lifting bracket or by a forklift truck if the pump is fixed on a pallet. Never lift the pump by the power cable, hose, or pipe.

Maintenance

Pumps running normal operation must be inspected every 3000 operating hours or at least once a year. If the pumped liquid is muddy or sandy, inspect the pump at shorter intervals.

Check the following:

- **Power consumption**
See on the nameplate.
- **Oil level and condition**
When the pump is new or after the shaft seal is replaced, check the oil level and water content after one week of operation. If there is more than 20 % extra liquid (water) in the oil chamber, the shaft seal is defective. The oil must be changed after 3000 operating hours or once a year.
- **Cable entry**
Make sure that the cable entry is watertight and the cable is not sharply bent or pinched.
- **Pump parts**

Check the pump parts for possible wear. Replace the defective parts.

- **Ball bearings**

Check the shaft for noisy or heavy operation (turn the shaft by hand). Replace the defective ball bearings. A general overhaul of the pump is usually required in case of defective ball bearings or poor motor function. This work must be carried out by Grundfos or an authorised service workshop. Bearings are lubricated for a lifetime.



Defective bearings may reduce the Ex safety.

Pumps running normal operation must be inspected every 3000 operating hours or at least once a year. If the pumped liquid is muddy or sandy, inspect the pump at shorter intervals.



Pumps with sensors offer the possibility of constant monitoring of key components in the pump, such as shaft seal condition, bearing- and winding temperature, insulation resistance, and moisture in the motor.

Check the shaft for noisy or heavy operation (turn the shaft by hand).

Replace defective ball bearings.

- **O-rings and similar parts**

During service and replacement, make sure that the grooves for the O-rings as well as the seal faces have been cleaned before the new parts are fitted. Grease O-rings and recesses before assembly.



Do not reuse rubber parts.

Fault finding

DANGER

Electric shock

Death or serious personal injury



- Before beginning the installation, switch off the power supply and lock the main switch in position 0. Make sure that the power supply cannot be switched on unintentionally. Any external voltage connected to the pump must be switched off before working on the pump.

DANGER

Crushing of hands

Death or serious personal injury



- Before diagnosing any fault, make sure that the fuses are removed or the main switch is switched off. Make sure that the power supply cannot be switched on unintentionally. Make sure all rotating parts have stopped moving.



Explosion-proof pumps must be checked by an authorised Ex workshop once a year.

Checking and changing the oil



Use Shell Ondina X420 oil or equivalent type with auto-ignition temperature above 180 °C.

Dismantling the pump



When the pump is new or after replacement of the shaft seal, check the oil level and water content after one week of operation.

Oil change

CAUTION

Pressurised system

Minor or moderate personal injury



- The oil chamber may be under pressure. Loosen the screws carefully and do not remove them until the pressure is completely relieved.



Used oil must be disposed of in accordance with local regulations.

Contaminated pumps



The product is classified as contaminated if it is used for contagious or toxic liquid.



All regulations applying to pumps installed in potentially explosive environments must be observed. Make sure that no work is carried out in a potentially explosive atmosphere.

Technical data

Supply voltage	3 × 220-240 V ± 10 %, 50 Hz
	3 × 380-415 V ± 10 %, 50 Hz
	3 × 400-415 V ± 10 %, 50 Hz
	3 × 220-277 V ± 10 %, 60 Hz
	3 × 380-480 V ± 10 %, 60 Hz
Enclosure class	IP68 (according to IEC 60529)
Insulation class	H (180 °C)
Maximum pressure	6 bar
Dimensions	Outlet flange diameters:
	DN 65
	DN 80
	DN 100
	DN 150 (according to EN 1092-2)
Safety factor	1.1

Declaration of conformity

GB: EC/EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product SL1/SLV 1.1-11 kW, to which the declaration below relates, is 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 výrobek SL1/SLV 1.1-11 kW, na který se toto prohlášení vztahuje, je v souladu s níže uvedenými ustanoveními směrnice Rady pro sbližení právních předpisů členských států Evropského společenství.

DK: EF-/EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produktet SL1/SLV 1.1-11 kW 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 el producto SL1/SLV 1.1-11 kW 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 CE/UE.

FR: Déclaration de conformité CE/UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que le produit SL1/SLV 1.1-11 kW, auquel se réfère cette déclaration, est conforme 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 je proizvod SL1/SLV 1.1-11 kW, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EC/EU-a.

IT: Dichiarazione di conformità CE/UE

Grundfos dichiara sotto la sua esclusiva responsabilità che il prodotto SL1/SLV 1.1-11 kW, al quale si riferisce questa dichiarazione, è conforme alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri CE/UE.

BG: Декларация за съответствие на ЕС/ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктът SL1/SLV 1.1-11 kW, за който се отнася настоящата декларация, отговаря на следните директиви на Съвета за еднаквяване на правните разпоредби на държавите-членки на ЕС/ЕО.

DE: EG-/EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass das Produkt SL1/SLV 1.1-11 kW, auf das sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EG-/EU-Mitgliedsstaaten übereinstimmt.

EE: EÜ/ELi vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuisikulist vastutust selle eest, et toode SL1/SLV 1.1-11 kW, 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 tuote SL1/SLV 1.1-11 kW, jota tämä vakuutus koskee, on EY-/EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukainen seuraavasti.

GR: Δήλωση συμμόρφωσης ΕΚ/ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι το προϊόν SL1/SLV 1.1-11 kW, στο οποίο αναφέρεται η παρακάτω δήλωση, συμμορφώνεται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΚ/ΕΕ.

HU: EC/EU megfelelősségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) SL1/SLV 1.1-11 kW termék, amelyre az alábbi nyilatkozat vonatkozik, megfelel az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

LT: EB/ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiamo, kad produktas SL1/SLV 1.1-11 kW, kuriam skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl EB/ES šalių narių įstatymų suderinimo.

LV: EK/ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkts SL1/SLV 1.1-11 kW, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par EK/ES dalībvalstu normatīvo aktu tuvināšanu.

NL: EG-/EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat product SL1/SLV 1.1-11 kW, 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 EG-/EU-lidstaten.

PL: Deklaracja zgodności WE/UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasz produkt SL1/SLV 1.1-11 kW, którego deklaracja niniejsza dotyczy, jest zgodny z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

PT: Declaração de conformidade CE/UE

A Grundfos declara sob sua única responsabilidade que o produto SL1/SLV 1.1-11 kW, ao qual diz respeito a declaração abaixo, está em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da CE/UE.

RO: Declarația de conformitate CE/UE

Noi Grundfos declarăm pe propria răspundere că produsul SL1/SLV 1.1-11 kW, la care se referă această declarație, este în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre CE/UE.

RS: Deklaracija o usklađenosti EC/EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod SL1/SLV 1.1-11 kW, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EC/EU.

RU: Декларация о соответствии нормам ЕЭС/ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделие SL1/SLV 1.1-11 kW, к которому относится нижеприведённая декларация, соответствует нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕЭС/ЕС.

SE: EG-/EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkten SL1/SLV 1.1-11 kW, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EG-/EU-medlemsstaternas lagstiftning som listas nedan.

SI: Izjava o skladnosti ES/EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek SL1/SLV 1.1-11 kW, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic ES/EU.

SK: EC/EU vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkt SL1/SLV 1.1-11 kW, na ktorý sa vyhlásenie uvedené nižšie vzťahuje, je v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EC/EÚ.

TR: EC/AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan SL1/SLV 1.1-11 kW ürünlerinin, EC/AB üye ülkelerinin direktiflerinin yakınılaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

UA: Декларація відповідності директивам EC/EU

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що виріб SL1/SLV 1.1-11 kW, до якого відноситься нижченаведена декларація, відповідає директивам EC/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 SL1/SLV 1.1-11 kW 系列，其制造和性能完全符合以下所列欧盟委员会指令。

NO: EFs/EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktet SL1/SLV 1.1-11 kW, som denne erklæringen gjelder, er i samsvar med Det europeiske råds direktiver om tilnærming av forordninger i EF-/EU-landene.

AR: إقرار مطابقة الاتحاد الأوروبي (EC/EU)

نقر نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتج SL1/SLV 1.1-11 kW، الذي يختص به الإقرار أدناه، يكون مطابقاً لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (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 SL1/SLV 1.1-11 kW 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.

- Machinery Directive (2006/42/EC).
Standards used:
EN 809: 1998 + A1: 2009
EN 60204-1: 2006 + A1:2009
- Low Voltage Directive (2014/35/EU).
Applicable when the rated power is lower than 2.2 kW.
Standard used:
EN 60335-1:2012+A11:2014
EN 60335-2-41:2003 except clause 25.8. +A1:2004 +A2:2010
- EMC Directive (2014/30/EU)
For sensor versions the following standards are used:
EN 61326-1:2013
- RoHS Directives (2011/65/EU and 2015/863/EU)
Standard used: EN IEC 63000:2018
- ATEX Directive (2014/34/EU)
Applies only to products intended for use in potentially explosive environments, Ex II 2G, equipped with nameplate, included ATEX approval information, and EU-type examination certificate. Further information, see below.

This EC/EU declaration of conformity is only valid when published as part of the Grundfos safety instructions (publication number 98938948).

Bjerringbro, 21/07/2022



Zoltán Lajtos

MUNI Solutions Value Stream Director
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.

Certificate No: KEMA 08ATEX0125X

Standard used: EN IEC 60079-0:2018,
EN 60079-1:2014,
EN ISO 80079-36:2016,
EN ISO 80079-37:2016

For WIO sensor versions the following standard is also used: EN 60079-7:2015+A1:2018,
EN 60079-18:2015+A1:2017

Approved body: DEKRA Certification B.V. no. 0344;
Meander 1051, 6825 MJ Arnhem,
The Netherlands

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:

SL1/SLV 1.1-11 kW

- Supply of Machinery (Safety) Regulations 2008
Standards used:
EN 809: 1998 + A1: 2009
EN 60204-1: 2006 + A1:2009
- Electrical Equipment (Safety) Regulations 2016
Standards used:
EN 60335-1:2012+A11:2014
EN 60335-2-41:2003 except clause 25.8.
+A1:2004 +A2:2010
- Electromagnetic Compatibility Regulations 2016
Standards used:
For sensor versions the following standards are used: EN 61326-1:2013
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2019
Standard used: EN IEC 63000:2018
- Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016

Applies only to products intended for use potentially explosive environments, Ex II 2G, equipped with nameplate, included UKEX approval information and UK-type examination certificate. Further information sees below.

Certificate No:	KEMA 08ATEX0125X
Standards used:	EN IEC 60079-0:2018 EN 60079-1:2014 EN ISO 80079-36:2016 EN ISO 80079-37:2016.
Standards used:	For WIO sensor versions the following standard is also used: EN 60079-7:2015+A1:2018, EN 60079-18:2015+A1:2017.
Approved body:	DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem, The Netherlands
Manufacturer:	Grundfos Holding A/S, Poul Due Jensens Vej 7, 8850 Bjerringbro, Denmark

This EC/EU declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 98938948).

Székesfehérvár, 09/12/2022



Zoltán Lajtós
MUNI Solutions Value Stream Director
Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

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

10000334974

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:

SL 1.1-11 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 60335-1:2015, NM EN 60335-2-41:2013 except clause 25.8.

Order No 2574-14, 2015 Electromagnetic Compatibility

Standards used: NM EN 61326-1:2016

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 :

SL 1.1-11 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 60335-1:2015, NM EN 60335-2-41:2013 except clause 25.8.

Compatibilité électromagnétique, ordonnance n° 2574-14, 2015

Normes utilisées : NM EN 61326-1:2016

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، 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 جروندفوس:

SL 1.1-11 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 60335-1:2015, NM EN 60335-2-41:2013 except clause 25.8.

القرار رقم 14-2574، 2015 التوافق الكهرومغناطيسي

المعايير المستخدمة: NM EN 61326-1:2016

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

Bjerringbro, 11/08/2022



Zoltán Lajtos

MUNI Solutions Value Stream Director

Grundfos Holding A/S

Poul Due Jensens Vej 7

8850 Bjerringbro, Denmark

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



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:

SL 1.1-11 kW

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

Resolution No. 533, 2018 - Amendments to some provisions

Standards used: ДСТУ EN 60335-1:2014, ДСТУ EN 60335-2-41:2015

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

Resolution No. 533, 2018 - Amendments to some provisions

Standards used: ДСТУ EN 809:2015, ДСТУ EN 60204-1:2015

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

Resolution No. 533, 2018 - Amendments to some provisions

Standards used: ДСТУ EN 55014-1:2016

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

Standards used: ДСТУ EN IEC 63000:2020

Resolution No. 1055, 2016 - Technical regulation of the equipment and the protective systems intended for use in potentially explosive environments

Resolution No. 102, 2020 - Amendments to some resolutions of the Cabinet of Ministers of Ukraine

Standards used: ДСТУ EN IEC 60079-0:2019, ДСТУ EN 60079-1:2019, ДСТУ EN 60079-7:2019, ДСТУ EN 60079-18:2019, ДСТУ EN 60079-31:2017, ДСТУ EN ISO 80079-36:2017, ДСТУ EN ISO 80079-37:2017

ATEX certificate number: KEMA 08ATEX0125X

Name and address of Approved body (ATEX):

DEKRA Certification B.V., No. 0344, Meander 1051, 6825 MJ Arnhem, The Netherlands.

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.



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:

SL 1.1-11 kW

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 60335-1:2014, ДСТУ EN 60335-2-41:2015

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, ДСТУ EN 60204-1:2015

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

Постанова № 1055 від 2016 р., Технічний регламент обладнання та захисних систем, призначених для використання в потенційно вибухонебезпечних середовищах

Постанова № 102 від 2020 р., Про внесення змін до деяких постанов Кабінету Міністрів України

Застосовані стандарти: EN IEC 60079-0:2018, EN 60079-1:2014, EN ISO 80079-36:2016, EN ISO 80079-37:2016.

Номер сертифіката ATEX: KEMA 08ATEX0125X

Назва та адреса уповноваженого органу з сертифікації (ATEX):

DEKRA Certification B.V., No. 0344, Meander 1051, 6825 MJ Арнем, Нідерланди.

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.

Székesfehérvár, 24/08/2022

Loltán Lajtos
MUNI Solutions Value Stream Director
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

Declaration of performance

GB: Declaration of performance

EU declaration of performance in accordance with Annex III of Regulation (EU) No 305/2011 (Construction Product Regulation)

- Unique identification code of the product type:
 - EN 12050-1 or EN 12050-2.
- Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):
 - SL1, SLV pumps marked with EN 12050-1 or EN 12050-2 (SL1.50) on the nameplate.
- Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
 - Pumps for pumping of wastewater containing faecal matter marked with EN 12050-1 on the nameplate.
 - Pumps for pumping of faecal-free wastewater marked with EN 12050-2 on the nameplate.
- Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):
 - Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro
Denmark.
- NOT RELEVANT.
- System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
 - System 3.
- In case of the declaration of performance concerning a construction product covered by a harmonised standard:
 - TÜV Rheinland LGA Products GmbH, identification number: 0197.
Performed test according to EN 12050-1 or EN 12050-2 under system 3.
(description of the third-party tasks as set out in Annex V)
 - TÜV Rheinland LGA Certificate no 60139390 (EN 12050-1); 60139391 (EN 12050-2)
Type-tested and monitored.
- NOT RELEVANT.
- Declared performance:

The products covered by this declaration of performance are in compliance with the essential characteristics and the performance requirements as described in the following:

 - Standards used: EN 12050-1:2015-05 or EN 12050-2:2015-05.
- The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

UA: Декларація щодо технічних характеристик

Декларація ЄС щодо показників будівельної продукції згідно з Додатком III Регламенту (ЄС) № 305/2011 (Регламент на конструкційні, будівельні матеріали та продукцію)

- Код однозначної ідентифікації типу продукту:
 - EN 12050-1 або EN 12050-2.
- Тип, номер партії, номер серії або інший параметр, що дозволяє ідентифікувати продукт для встановлення в будівлях згідно Статті 11(4):
 - Насоси SL1, SLV мають позначення EN 12050-1 або EN 12050-2 (SL1.50) на фірмовій табличці.
- Цілісьове використання будівельної продукції згідно застосованих погоджених технічних умов, зазначених виробником:
 - Насоси для перекачування стічних вод із фекаліями мають позначення EN 12050-1 на фірмовій табличці.
 - Насоси для перекачування стічних вод без фекалій мають позначення EN 12050-2 на фірмовій табличці.
- Назва, зареєстроване торгове ім'я або зареєстрована торгова марка та контактна адреса виробника згідно Статті 11(5):
 - Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro
Данія.
- НЕ ЗАСТОСОВУЄТЬСЯ.
- Система або системи оцінки та перевірки стабільності показників будівельної продукції згідно Додатку:
 - Система 3.
- Якщо декларація щодо показників стосується будівельної продукції, що підпадає під гармонізований стандарт:
 - TÜV Rheinland LGA Products GmbH, ідентифікаційний номер: 0197.
Тест виконаний відповідно до EN 12050-1 або EN 12050-2 за системою 3.
(опис завдань третьої сторони відповідно до Додатку)
 - Сертифікати № 60139390 (EN 12050-1); 60139391 (EN 12050-2), видані сертифікаційним органом TÜV Rheinland LGA
Типові випробування та моніторинг пройдені.
- НЕ ЗАСТОСОВУЄТЬСЯ.
- Задекларовані показники

Продукти, що підпадають під цю декларацію, відповідають основним характеристикам і вимогам до показників, зазначеним нижче:

 - Застосовані стандарти: EN 12050-1:2015-05 або EN 12050-2:2015-05.
- Показники продукту, вказані в пунктах 1 і 2, відповідають зазначеним показникам із пункту 9.

Signature

EU declaration of performance reference number: 98938948

Székesfehérvár, 05/01/2023



Zoltán Lajtos
MUNI Solutions Value Stream Director
Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

Declaration of performance

GB: UK Declaration of performance

UK declaration of performance in accordance with The Construction Products Regulation 2019

1. Unique identification code of the product type:
 - EN12050-1, EN12050-2 (SL1.50)
 2. Type, batch or serial number or any other element allowing identification of the construction product:
 - SL1, SLV marked with EN 12050-1 or EN 12050-2 on the nameplate.
 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
 - SL1, SLV for pumping of wastewater containing faecal matter marked with EN 12050-1 on the nameplate.
 - SL1.50 for pumping of faecal-free wastewater marked with EN 12050-2 on the nameplate.
 4. Name, registered trade name or registered trade mark and contact address of the manufacturer:
 - Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro
Denmark.
 5. NOT RELEVANT.
 6. System or systems of assessment and verification of constancy of performance of the construction product:
 - System 3.
 7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:
 - TÜV Rheinland LGA Products GmbH, notified number: 0197.
Performed test according to EN 12050-1 or EN 12050-2 under system 3.
(description of the third-party tasks as set out in Annex V)
 - TÜV Rheinland LGA Products GmbH
Certificate number: 60139390 (EN 12050-1); 60139391 (EN 12050-2).
Type-tested and monitored.
 8. NOT RELEVANT.
 9. Declared performance:

The products covered by this declaration of performance are in compliance with the essential characteristics and the performance requirements as described in the following:

 - Standards used: EN 12050-1:2015-05 or EN 12050-2:2015-05 (SL1.50).
 10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.
-

Signature

UK declaration of performance reference number: 98938948
Székesfehérvár, 09/12/2022



Zoltán Lajtos
MUNI Solutions Value Stream Director
Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

RUS

SL1, SLV 1,1 – 11 кВт

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 SL1, SLV 1,1 – 11 кВт 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».

KAZ

SL1, SLV 1,1 – 11 кВт

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 тақташасында орналасқан шығарылған уақыты жөніндегі мәлімет

Сертификаттау туралы ақпарат:

SL1, SLV 1,1 – 11 кВт 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.

KG

SL1, SLV 1,1 – 11 токтуу

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 туралуу маалымат.

Шайкештик жөнүндө декларация

SL1, SLV 1,1 – 11 токтуу түрүндөгү соргучтар 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».

ARM

SL1, SLV 1,1 – 11 կՎտ

Շահագործման ձեռնարկ

Տվյալ սարքավորման շահագործման ձեռնարկը բաղկացած է մի քանի մասերից.

Մաս 1. սույն «Շահագործման ձեռնարկ»:

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

շահագործման ձեռնարկ» տեղադրված «Գրունտֆոս». Անցեք փաստաթղթի վերջում նշված հղումով.

Մաս 3. տեղեկություն արտադրման ամսաթվի վերաբերյալ՝ նշված սարքավորման պիտակի վրա:

Տեղեկություններ հավաստագրման մասին՝

SL1, SLV 1,1 – 11 կՎտ 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»:


<http://net.grundfos.com/gr/i/98947334>

10000096684	0618
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98938948 02.2023

ECM: 1344644

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