

印刷制作说明 (非印刷页)

叶子类目	深井泵	深井泵
厂家型号	3SDM2/21	3SDM4/16
子 SKU	SJQSBZDKGOC55GHEWV2	SJQSBNZOC750W3JTDV2
厂家型号	3.5SDM4/11	3.5SDM4/11
子 SKU	SJQSBNZOC750WOAH0V2	SJQSBZDKGOC75G0EQV2
厂家型号	4SDM4/6	4SDM4/10
子 SKU	SJQSBWZQDHOC3UZ9MV2	SJQSB1100W60K85DTV2
厂家型号	3SDM4/13	3SDM3/16
子 SKU	SJQSB550W600Y7ZIJV2	SJQSB750W400787CRV2
厂家型号	4SDM2/12	
子 SKU	SJQSB1100W403CHOEV2	

技术要求:

- 1.内容正确，图文清晰，位置准确；
- 2.成品不准有破损、裂纹污迹等影响美观缺陷；
- 3.具体页数、尺寸、内容、字体、字号、按设计图纸；
- 4.A5 版面双面黑白印刷，80g 以上铜版纸或者双胶纸。
- 5.装订方式骑马订/折页或者胶装。
- 6.打样确认后后方可批量印制。

VEVOR

Upgrade · The Home Creator Way

Deep well pump

MODEL: 3SDM2/21, 3SDM4/16, 3.5SDM4/11, 3.5SDM4/11,
4SDM4/6, 4SDM4/10, 3SDM4/13, 3SDM3/16, 4SDM2/12

VEVOR Support Center

1	3SDM2/21		2	3SDM4/16	
3	3.5SDM4/11		4	3.5SDM4/11	
5	4SDM4/6		6	4SDM4/10	
7	3SDM4/13		8	3SDM3/16	
9	4SDM2/12				

Deep well pump



This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

	Warning-To reduce the risk of injury, user must read instructions manual carefully.
	This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheellie bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices

1. Warning-To reduce the risk of injury, user must read instructions manual carefully.
2. The product complies with relevant standards and regulations. Installation of this device must comply with all applicable regulations, and it should only be operated in well-ventilated areas. Please read the user manual before installing and using this equipment.
3. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
4. Children shall not play with the appliance.
- 6.This appliance is intended to be used in household and similar applications such as:
 - staff kitchen areas in shops, offices and other working environments;
 - farm houses;
 - by clients in hotels, motels and other residential type environments;
 - bed and breakfast type environments.
- 8.Please use the product according to the intended use, warn of potential injury from misuse.
- 9.Switch off the appliance and disconnect from supply before changing accessories or approaching parts that move in use.
- 10.always disconnect the appliance from the supply if it is left unattended and before assembling, disassembling or cleaning

11.WARNING: Only use the supply unit provided with this appliance.

12.WARNING: Use only an external supply with the following specifications:

<voltage and nature of supply> <power/current of supply>

DANGER:

Risk of electric shock! This is submersible/well electrical equipment. Must be properly grounded and protected by a residual current device (RCD). Disconnect all power before installation, moving, maintenance or inspection.

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CAUTIONS:

Before starting, check check valve, pipelines and fittings for good sealing and no leakage.

Regularly inspect inlet strainer to prevent sand, debris from clogging or damaging impeller.

Avoid frequent starting and stopping to prevent reducing motor life and damaging control system.

For long-term storage, remove pump from well, clean and store dry to prevent freezing and corrosion.

Use with specified water quality only. Do not pump chemicals, oil, mud or corrosive liquids.

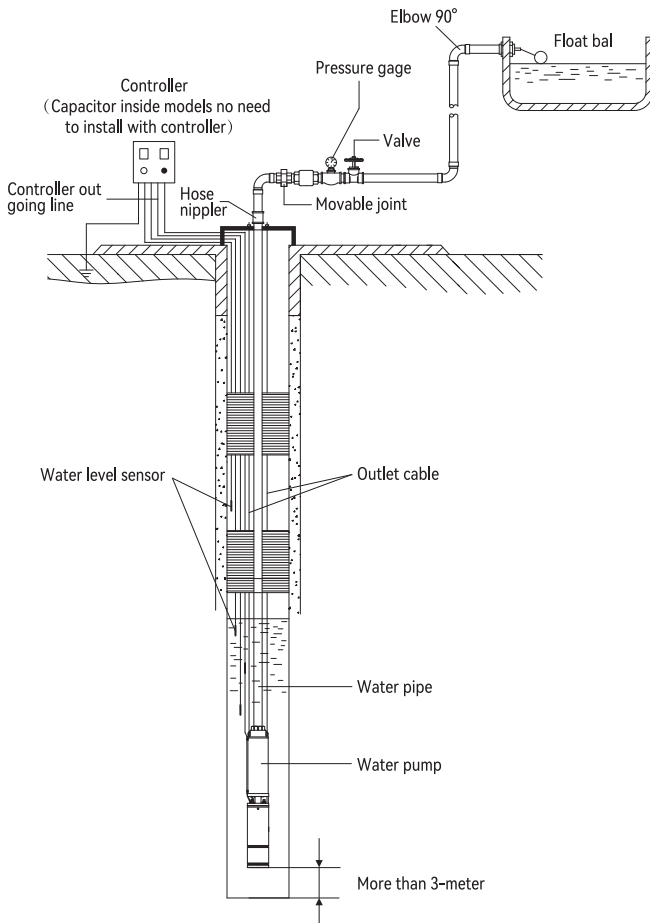
Ensure voltage stays within rated range; abnormal voltage will damage motor.

Keep pump vertical during installation; avoid tilting or hitting well wall.

Thank you for buying our water pumps.
Please read the operation manual carefully before using.

WARNING

- The reliable grounding must be conducted before using water pump. The earth leakage protective device as well as the overload or over-current protective device must be installed on water pump.
- The electric pump is not allowed for dry running.
- When the pump is in operation, people and animals shall not touch the water near the pump.
- In order to prevent electrical shock, the power source shall be shut off at maintenance and cleaning.
- Replacement power cord, Type Y connection-If the power cord is damaged, it must be replaced with a special flexible cord or a special component purchased from its manufacturer or maintenance department.



The above installation structure is for reference only. Please purchase the matching parts shown in the figure by yourself.

INTRODUCTION

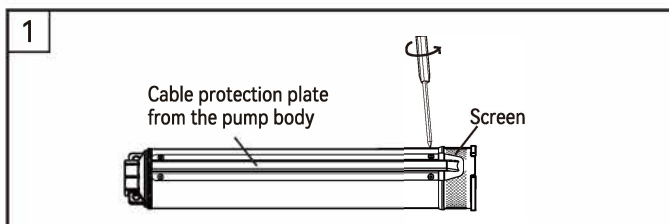
The deep-well pump is a water lifting tool based on direct connection between electric machine and water pump, which is suitable for fetching underground water from deep wells, rivers, reservoirs and canals etc in some projects. Further, this product is mainly used for farmland irrigation as well as human and animal drinking water in plateau mountain areas. More importantly, the deep-well pump can be used for water supply and discharge in cities, factories, railways, mines and construction sites.

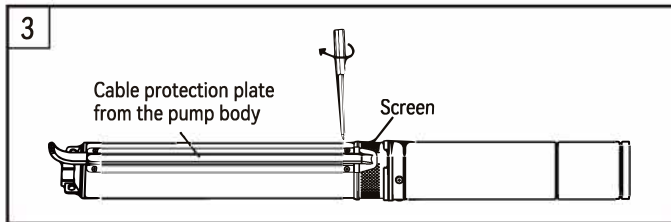
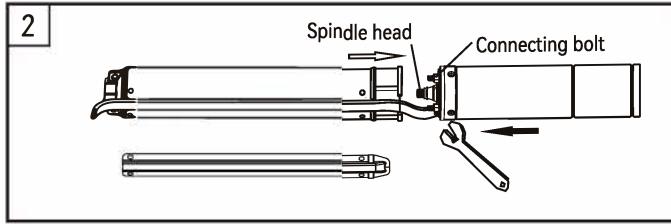
USE CONDITION

- 2.1 Voltage fluctuating range shall be $\pm 10\%$ of rated values;
- 2.2 The water temperature shall not be higher than $+35^{\circ}\text{C}$.
- 2.3 The PH value of water is between 6.5 and 8.5.
- 2.4 The solid contents in the water shall not be larger than 0.25% with the maximum diameter not over 2.3mm.

INSTALLATION USE AND NOTICE

- 3.1 Please check whether the inner diameter conforms to the minimum diameter of water pumps before buying and installing. If it is a new well, the air compressor or old water pump shall be used to clean sundries and soils. After that, please check whether the water quality and temperature conform to use conditions. The water pump can only be installed onto the water inside the well up to standard.
- 3.2 Please check damage that may be caused in the transportation and storage process after unpacking the pump. For example, whether the cable and plug etc are intact; various joints are not loosened and without any leakage. If there has any damage, please contact with professional personnel to repair or replace it.
- 3.3 During installation, please fix the electric pump and then install the earth leakage protective device or the over-heat or over-current protective device correctly. The electric pump must be connected to ground reliably.
- 3.4 When the water pump reaches a certain length, the motor and the pump body need to be packed separately.
- In case of a separate packing, firstly remove the filter screen and the cable protection plate from the pump body (Figure1), then place the pump body on the motor to make the spindle head of the rotor smoothly slide into the coupling, manually rotate the coupling to check if it can run normally, then screw up the connecting bolt (Figure2), and finally install the filter screen and the cable protection plate (Figure3).





3.5 Before use, thoroughly test the insulation resistance of the electronic pump's stator winding (including outgoing cable) to the pump casing with a 500V megohmmeter, and the cold insulation resistance should be no less than 100 MΩ.

3.6 The electric pump shall be connected to the power source for trial operation before entering into water. The time shall not exceed 3 seconds. The cable lines of single-phase water pump shall be connected according to the wiring diagram on the electric machine or control cabinet strictly connected by correct colors. The wrong wiring will cause abnormal works or even damage the electric machine; three-phase water pump can be connected without differentiating cable colors.

3.7 A power line can be added with rather distant power supply. Please select proper cable lines according to table to avoid the cable too thin to be abnormal operation.

220-240V~ 50/60Hz

Single Phase Motor	Cable Length/Cross-sectional Area Of Conductor(mm ²)					
kW	0-15m	16-30m	31-45m	46-60m	61-75m	76-90m
0.25	0.75	0.75	0.75	0.75	1.0	1.25
0.37	0.75	0.75	0.75	1.0	1.25	1.25
0.55	0.75	0.75	1.0	1.25	1.25	1.5
0.75	0.75	1.0	1.25	1.25	1.5	1.5
0.92	1.0	1.25	1.25	1.5	1.5	2.0
1.1	1.0	1.25	1.5	1.5	2.0	2.0
1.5	1.25	1.5	2.0	2.0	2.5	2.5
1.8	1.5	2.0	2.0	2.5	2.5	3.0
2.2	1.5	2.0	2.5	2.5	3.0	4.0
2.6	2.0	2.5	2.5	3.0	4.0	4.0
3.0	2.0	2.5	3.0	4.0	4.0	5.0

115V~ 60Hz

Single Phase Motor	Cable Length/Cross-sectional Area Of Conductor(mm ²)					
kW	0-15m	16-30m	31-45m	46-60m	61-80m	81-100m
0.18	0.6	0.75	1.0	1.25	1.5	2.0
0.25	0.75	1.0	1.25	1.5	2.0	2.5
0.37	1.0	1.25	1.5	2.0	2.5	3.0
0.55	1.0	1.5	2.0	2.5	3.0	4.0
0.75	1.25	2.0	2.5	4.0	5.0	6.0
1.1	1.5	2.5	4.0	5.0	6.0	8.0
1.5	2.5	4.0	5.0	6.0	8.0	/

To choose the required cutting area of cable according to the power of pump and length of external cable to ensure the normal operation of motor.

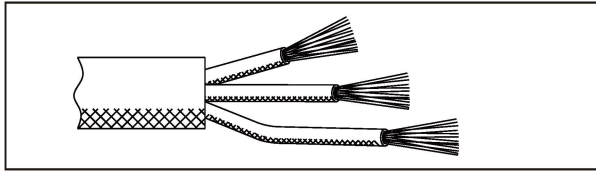


CAUTION

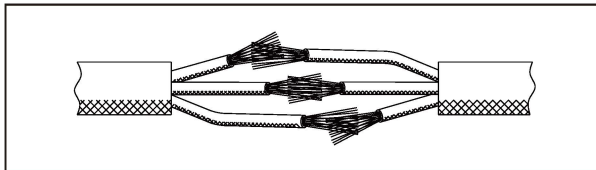
It is necessary for users to choose the cable diameter thicker than the leading cables when extending the leading cables. The specific cable diameter is detailed in the manual.

3.8 Please operate as below instructions for adding cable lines:

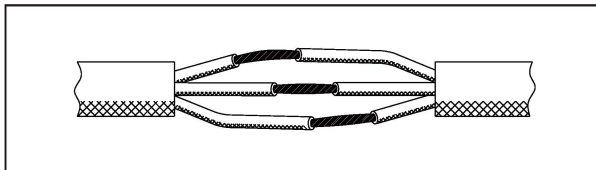
3.8.1 Strip a 50-60mm cable with a wire stripper, then strip the rubber hose to reveal a 20-30mm copper wire.



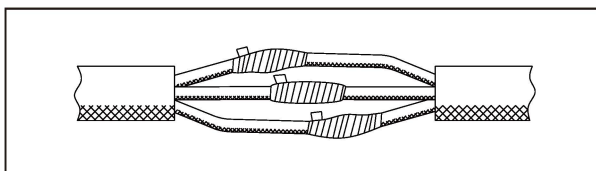
3.8.2 Tighten two cable lines with the same color into spiral shape so as to guarantee close connection;



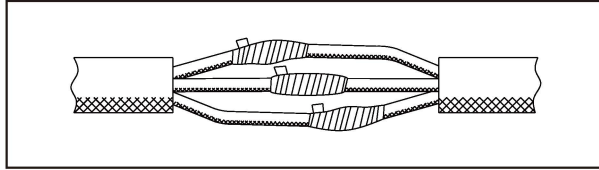
3.8.3 Tightly wind and cover the cable with the electrical insulating tape from the 15-20mm core cord.



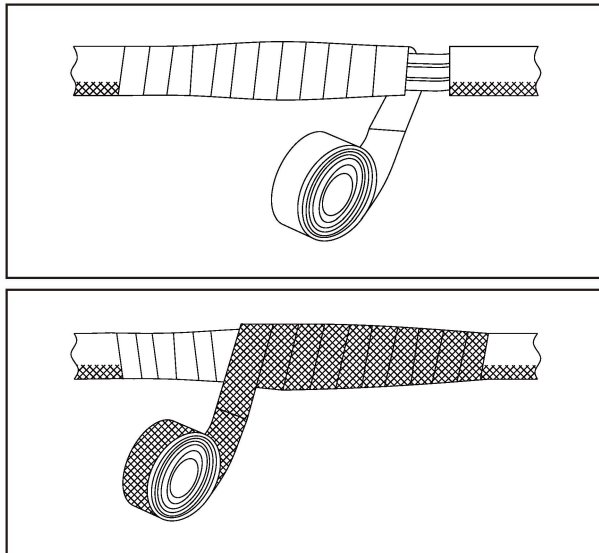
3.8.4 Wrap the cable that is covered with the electrical insulating tape with a waterproof adhesive tape from the 20-30mm core cord. The waterproof adhesive tape should be 10mm longer than the electrical insulating tape at both ends. Before the wrapping, the waterproof tape should be stretched out 1-fold its length and follow the normal use.



3.8.5 Wrap the cable that is wrapped with the waterproof adhesive tape with the electrical insulating tape.



3.8.6 Wrap the cable that is wrapped with the electrical insulating tape with the waterproof adhesive tape. The waterproof adhesive tape should be 10mm longer than the electrical insulating tape at both ends. Before the wrapping, the water proof tape should be stretched out 1-fold its length and follow the normal use.



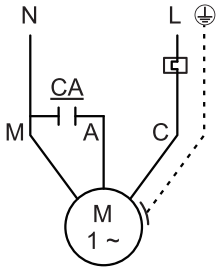
3.8.7 Immerge the junction of the cable into water for 12 hours. Test the insulation resistance of the cable with a 500V megohmmeter. The cold insulation resistance should be no less than 50 MΩ

3.9 The delivery pipe shall be matched to the water outlet (the specification shall be selected based on the performance parameter table). For example, the iron wire or clamp can be used to connect with soft delivery pipes; the screwed joint can be used for steel delivery pipes for further reliable connection. Further, the threading ropes are used at the handle in case that the rope floats in the water. The tied ropes of hoisting electric pump must be firm and durable. The cable lines shall not be stretched but in a natural loose state.

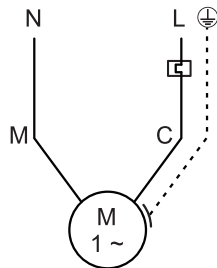
- 3.10 The cables are not allowed for impact and crushing or used as lifting ropes. Further, do not pull the cables randomly at operation so as to avoid electric shock caused by cable damage.
- 3.11 The depth of electric pump in the water shall not be over 80m but 3m above the bottom. Further, the electric pump shall not be sunk into soils. Meanwhile, the user shall prevent sundries to block nets or impellers, because it will lead to abnormal works. Please check the water level during works to avoid exposed or dry works, or else it will burn the electrical machine and other parts.
- 3.12 During usage, washing, swimming or animals are not allowed within working regions. The safety warning label “ electric shock risk, no entry ” shall be set up on the site to prevent accidents.
- 3.13 The oil-filled electrical machine has been filled with appropriate food machine oil at the time of ex-factory. The users are not allowed to fill in any water or oil into the electrical machine (except for maintenance).
- 3.14 The oil-filled electrical machine is filled with food machine oil that may be leaked when it is damaged or break down. Under the use applications such as planting, cultivation or the transportation and processing of drinking water and food, etc, the leaked food machine oil may cause certain damage to plants and cultured animals or pollute drinking water or food. The user shall evaluate the use environment as well as related consequence before selecting this product so as to confirm its proper use. If necessary, please invite some related professional personnel. If there has food machine oil leakage, please stop using and deal with it properly.
- 3.15 The power source shall be cut off at the time of adjusting position or contacting with electric pumps in case of any accidents. The electric pump shall not be lifted away from water surface before shunting down power source so as to guarantee safety.
- 3.16 The electric pump belongs to specialized technology-based product. The unqualified repairman shall not conduct any randomly disassemble. The sealing and insulation testing must be conducted after laid-up and reassembly.
- 3.17 The maintenance shall be conducted on electric pumps after 3,000 hours normal operation. The maintenance shall be conducted on electric pumps after 3,000 hours normal operation. Various easily damaged parts such as mechanical seal, bearing, impeller, and so on must be replaced. The air pressure test must be conducted on motor and oil chambers after laid-up or changing mechanical seal. The test pressure is 0.4 Mpa. There shall be no leakage within five minutes.
- 3.18 The pump shall not be sunk into water for long-term nonuse. Instead, the pump shall be put in the clear water for several minutes of operation so as to clean mud and other dirties inside and outside of the pump. Further, the anti-rust oil shall be coated on the pump, then it shall be put in a dry and ventilated place. The electric pump with rather long-term use shall be repainted or treated by anti-rust oil according to its surface corrosion status.

WIRING DIAGRAM

**Single phase with
capacitor
connection demonstration**



**Single phase with
built-in capacitor
connection demonstration**



TECHNICAL DATA

Model	Voltage	Output Power	Max.flow	Max.head	Power cord length	Outlet size	Pump diameter
3SDM2/21	230V/50Hz	0.55kW	50L/min	89m	20m	1"	82mm
3SDM3/16	230V/50Hz	0.55kW	65L/min	64m	20m	1"	81mm
3SDM4/13	230V/50Hz	0.55kW	100L/min	53m	20m	1.25"	81mm
3SDM4/16	230V/50Hz	0.75kW	100L/min	66m	20m	1.25"	82mm
3.5SDM4/11	230V/50Hz	0.75kW	105L/min	62m	20m	1.25"	95mm
4SDM4/6	230V/50Hz	0.37kW	110L/min	44m	20m	1.25"	102mm
4SDM8/9	230V/50Hz	1.1kW	190L/min	57m	20m	2"	102mm

TECHNICAL DATA

Model	Voltage	Output Power	Max.flow	Max.head	Power cord length	Outlet size	Pump diameter
4SSM4/5-1	115V/60Hz	0.37kW	105L/min	51m	10m	1.25"	102mm
4SSM4/5-2	230V/60Hz						
4SSM5/6-1	115V/60Hz	0.75kW	140L/min	63m	10m	1.25"	102mm
4SSM5/6-2	230V/60Hz						
4SSM5/8-1	115V/60Hz	1.1kW	140L/min	84m	10m	1.25"	102mm
4SSM5/8-2	230V/60Hz						
4SSM5/12-2	230V/60Hz	1.5kW	140L/min	130m	10m	1.25"	102mm
4SSM5/18-2	230V/60Hz	2.2kW	140L/min	195m	10m	1.25"	102mm

Model	Voltage	Output Power	Max.flow	Max.head	Power cord length	Outlet size	Pump diameter
4SDM2/12	230V/50Hz	550 W	3.9 m ³ /h	85m	20m	1.25"	102mm
4SDM3/7	230V/50Hz	370 W	5.3 m ³ /h	50m	9m	1.25"	102mm
4SDM4/10	230V/50Hz	750W	7.1m ³ /h	75m	9m	1.25"	102mm
			6.0m ³ /h		20m	1.25"	102mm
4SDM4/14	230V/50Hz	1100W	7.1m ³ /h	105m	19m	1.25"	102mm
4SDM6/15	230V/50Hz	1500W	9.8m ³ /h	108m	9m/19m	1.5"	102mm
4SDM6/20	230V/50Hz	2200W	9.8m ³ /h	144m	9m/19m	1.5"	102mm

Note:

- 1.The maximum liquid temperature should be 35°C.
- 2.The maximum head value is the value of the laboratory test in the zero flow state.In the actual use process, the actual data will be slightly different due to the impact of the environment.
- 3.Refer to the circuit diagram inside the pump body and junction box for connection methods.
- 4.Maintain at least 10 mm clearance between well casing and pump body.

FAILURE REASONS AND TROUBLESHOOTING METHOD

Fault phenomenon	Reasons	Solutions
Motor: out of operation	1. Too much low voltage leads to failed start-up; 2. Stuck impeller or stator and rotor; 3. Power off 4. The welding lines of capacitor and protector fall off or to be burnt; 5. Burnt stator winding or open circuit.	1. Use a voltage regulator for further adjustment; 2. Take off the water inlet valve to clean stoppers of impellers as well as silt of sand-proof cover; 3. Check causes and then take the corresponding measures; 4. Re-weld falling wires or change damaged parts; 5. Send to maintenance unit to replace or repair windings.
No water or no enough water amount	1. Too much low voltage leads to no enough rotation or reduced water amount; 2. Too high lift that has exceeded electric pump's lift capacity; 3. The strainer or impeller is blocked 4. Serious wear of impellers; 5. Open circuit of stator winding.	1. Adjust voltage; 2. Decrease lift or buy another electric pump according to practical situation; 3. Clean blocked sundries; 4. Change impeller or send it to maintenance unit; 5. Send it to maintenance unit for further repair.
Frequently worked protectors	1. Too much low voltage leads to increased current and serious motor heating; 2. Too much low lift leads to increased water drainage and serious motor overload; 3. Abnormal wear of rotors or parts; 4. The electric pump is exposed above water or operated in a dry environment; 5. Damaged sealing; water inflow of machine winding; 6. Serious bearing wear (loudly noise) and increased friction force.	1. Adjust voltage; 2. Use iron wire to narrow water outlet so as to reduce outflow; 3. Adjust or replace parts; 4. Reduce installation height; 5. Replace sealing element and dry the electric machine; 6. Replace bearing.

