

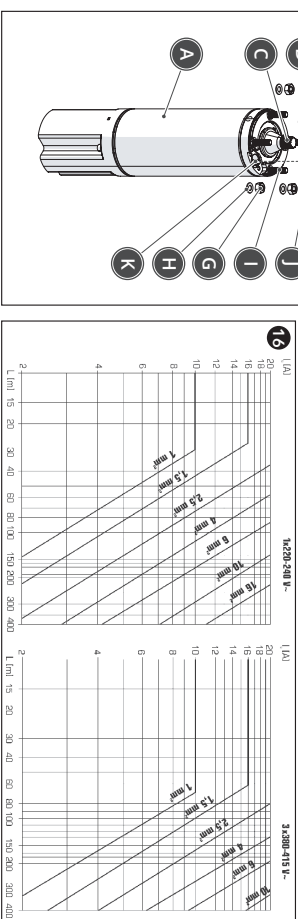
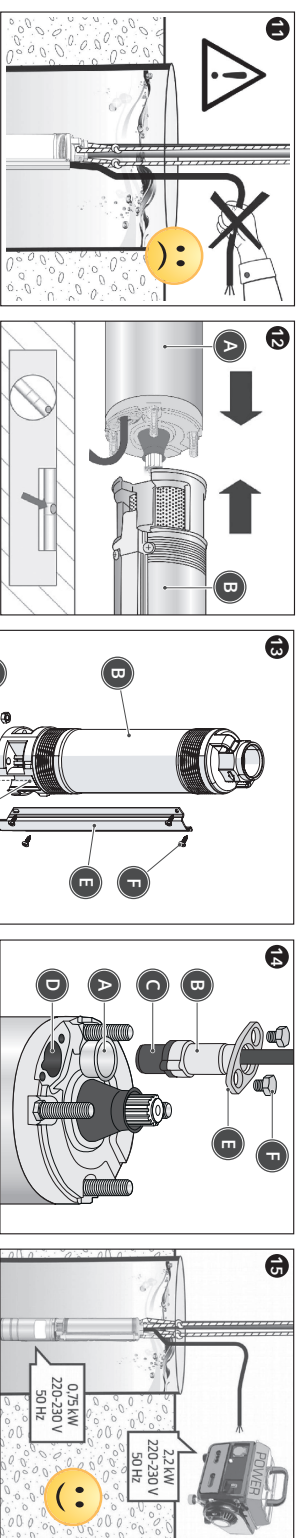
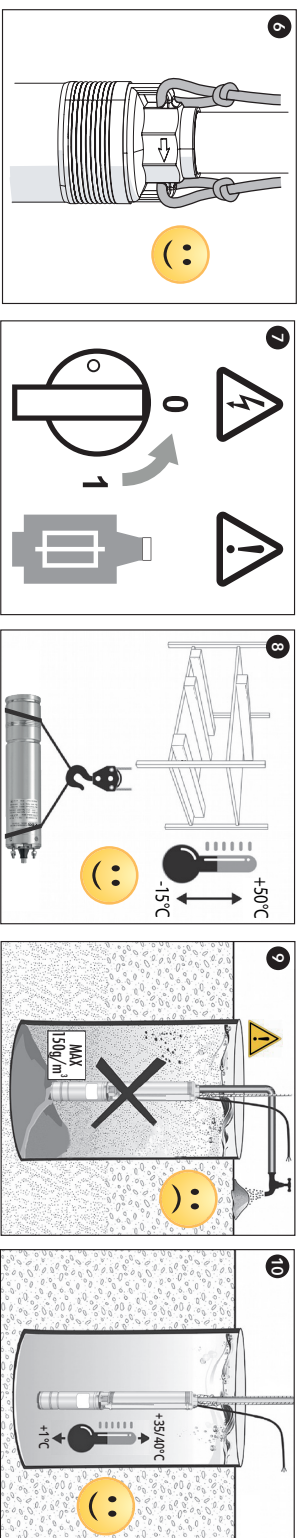
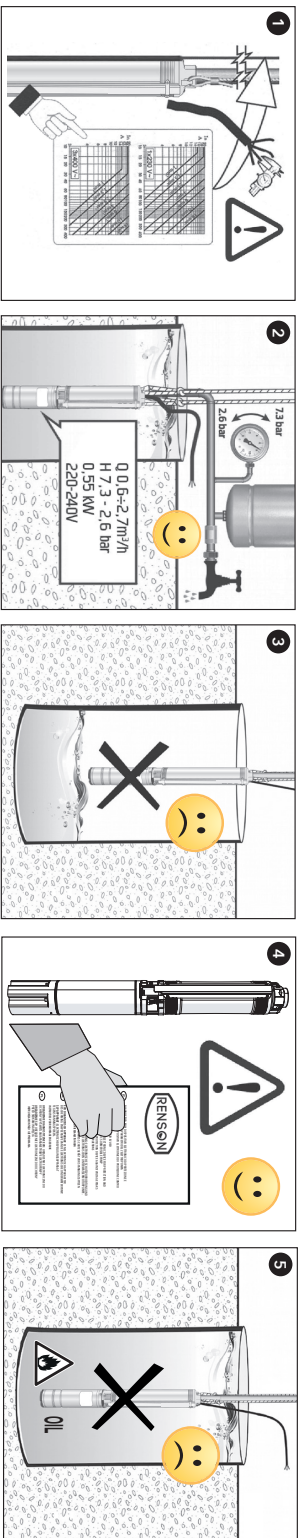
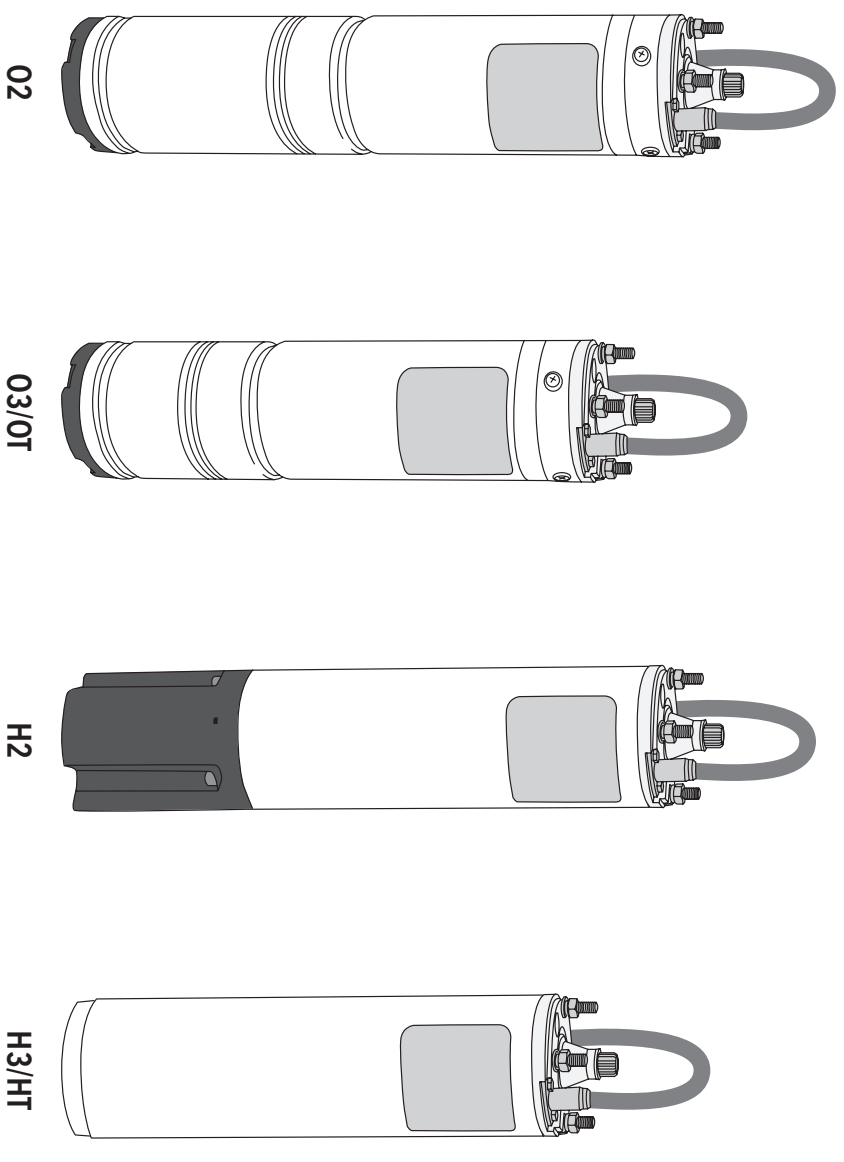
EN
4" SINGLE-PHASE - THREE-PHASE SUBMERSIBLE MOTORS

WATER COOLED AND OIL COOLED

INSTALLATION, USE AND MAINTENANCE INSTRUCTIONS

FR

4" EINPHASIGE UND DREIPHASIGE, WASSERGEKÜHLTE UND ÖLGEKÜHLTE UNTERWASSERMOTOREN UND INSTALLATIONS-, GEBRAUCHSANLEITUNG UND WARTUNG



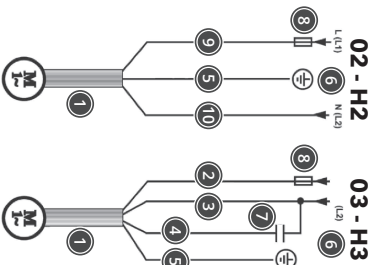
17 SINGLE-PHASE MOTOR CONNECTION DIAGRAM - SCHÉMA DE RACCORDEMENT MOTEUR MONOPHASE

EN

- | | |
|----------------------------|--------------------------------|
| 1- Moto cable | 1- Câble moteur |
| 2- Black (line) | 2- Noir (neutre) |
| 3- Light blue or grey (un) | 3- Bleu clair ou gris (merche) |
| 4- Brown (cstr) | 4- Maron (démarrage) |
| 5- Yellow/green (earth) | 5- Jaune/vert (terre) |
| 6- Power supply line | 6- Ligne d'alimentation |
| 7- Capacitor | 7- Condensateur |
| 8- Fuses | 8- Fusible |
| 9- Brown (line) | 9- Maron |
| 10- Light blue (neutral) | 10- Bleu clair |

FR

- 1- Câble moteur
- 2- Noir (neutre)
- 3- Bleu clair ou gris (marche)
- 4- Marron (démarrage)
- 5- Jaune/vert (terre)
- 6- Ligne d'alimentation
- 7- Condensateur
- 8- Fusible
- 9- Marron
- 10- Bleu clair



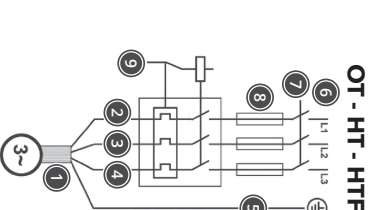
18 THREE-PHASE MOTOR CONNECTION DIAGRAM - SCHÉMA DE RACCORDEMENT MOTEUR TRIPHASI

ENZ

- | | |
|-------------------------|-------------------------|
| 1- Motor cable | 1- Câble moteur |
| 2- Black (line) | 2- Noir |
| 3- Light blue or grey | 3- Bleu clair ou gris |
| 4- Brown | 4- Marron |
| 5- Yellow/green (earth) | 5- Jaune/vert (terre) |
| 6- Power supply line | 6- Ligne d'alimentation |
| 7- Main switch | 7- Interrupteur général |
| 8- Fuses | 8- Fusible |
| 9- Thermal protection | 9- Thermique |

FR

- 1 - Câble moteur
- 2 - Noir
- 3 - Bleu clair ou gris
- 4 - Marron
- 5 - Jaune/vert (terre)
- 6 - Ligne d'alimentation
- 7 - Interrupteur général
- 8 - Fusible
- 9 - Thermique



MANUFACTURER:

Renson ZA Actipole, 2 avenue de la Solette - 59554 Raillencourt-Sainte-Olle

Series

H2-02, H3-03, HT-0T

ZDS S.r.l. declares, under its sole responsibility that the above mentioned products, to which this declaration refers, are in conformity with the directives concerning harmonization of the laws of the EEC member countries in relation to:

- 2014/35/EU Low Voltage Directive and additional related rules EN60034-1
 - 2014/30/EU EMC Directive and additional related rules EN50141 and EN50142
 - RoHSII 2011/65/EU
 - NEMA MG 1-2016-18, 154
 - Machinery Directive 2006/42/CE
- These motors must only be operated if installed in observance to "machines" EC guidelines 2006/42/CE.

Padova, 26th August 2019

Renson

ZA Actipole, 2 avenue de la Solette
59554 Raillencourt-Sainte-Offe

Complete original instructions.

Complete original instruction manual for the correct installation and maintenance of the product, to be kept by the user. Follow carefully the instructions below: the improper use of the submersible pump can cause injury to persons and damage to the product itself and property, exempting Resson from any responsibility.

Any reproduction, even partial (text and pictures), is prohibited. Resson reserves the right to amend the documentation without prior notice.

The safety instructions contained in this manual, whose inobservance might cause physical harm to persons, are marked with the general hazard symbols, i.e.:



1. COMPLAINTS WITH THE GUIDELINES

The machine, EC guideline, states that the submersible motors are machine components. You must not commission the motor until you have instructed a complete machine.

- meet the safety requirements stipulated in the applicable EC guidelines;
- confirm everything by a certificate of conformity;
- **2. SAFETY**

The submersible motor must only be operated in observance of the safety regulations stated in this manual.

Before operating the motor, protect electrical and mechanical damage spot against access.

The submersible motor can be used by children aged above 8 years and by persons with reduced physical, sensory or mental abilities, or who lack adequate experience and knowledge of the product, provided that they are supervised or have been adequately instructed on its safe use and the relevant risks involved.

Children must not play with the submersible motor.

Cleaning and maintenance to be carried out by the user must not be affected by unsupervised children.

Any operation required from the submersible motor (installation, maintenance or repair), must be carried out by a qualified technician, after disconnecting the power supply. Disconnecting the power supply will avoid accidental starts, which can cause injury to people and/or cause damage.

The user must observe strictly the regulations in force in the user's country regarding accident prevention and he must gather all necessary protection to install, maintain or move the submersible motor.

The 4th submersible motor must only be operated observing the following safety regulations:

- take into account the implementation limits of the motor and units;
- check the correct size of the electrical system and fuse before starting the motor;
- pay attention to the selection of the correct power supply cable and to the correct connection of the motor (RV) and the distance between the pump and the plug itself (fig. 1);
- before starting the submersible pump, check the adequate protection of the electrical and mechanical parts;
- bleed the discharge pipeline in order to remove all air from the pipe;
- before starting the motor to ensure correct function of the pump, provide the delivery pipe with a non-return valve (maximum distance from the pump: 7 m);
- After the start of the motor check:
- the operating current of the motor on each phase;
- the main voltage with running motor;
- the level of the medium to be pumped;
- immediately turn off the motor if necessary (fig. 2);
- the maximum voltage tolerance is different from the -10% and +6% of the rated voltage on the motor V_N;
- if the rated voltage on the motor V_N;
- Dry out is imminent (fig. 3);
- Check that the voltage, the frequency, the power and the axial thrust are corresponding to the pump's complete. Check also, if the electric supply is appropriate for the motor and the pump (fig. 2).

3. WARNINGS

The warranty is extended and void if the instructions given in this manual are not observed and/or if anyone other than authorized personnel interferes with the submersible motor. In these cases, the manufacturer is released from any responsibility in regard to the operation and use of the pump. The manufacturer is not responsible for the damage caused by the submersible motor itself. Please refer to the "Warranty conditions", included in the pump packaging.

Resson 4th submersible motors are 2-pole synchronous electric motors. Single-phase versions **02**, **03** and **H2**, **H3** work with counter clockwise rotation (observing from the delivery side) whereas the three phase versions **01** and **H1** work with reversible rotation.

Resson submersible motors can be coupled only to 4th submersible hydraulic parts in compliance to EN64 standards.

- Submersible motors from **series H2-H3-H1** are encased in a water-cooled motor. Submersible motors from **series 02-03-01** are oil-cooled motors (FDA - Food Drug Administration approved dielectric fluid).
- Before starting the 4th submersible pump, make of the hydraulic part coupled with the submersible motor, follow carefully the instructions manual provided with the hydraulic part and the motor (fig. 4).
- The submersible pump, made of the hydraulic part coupled with the submersible motor, cannot be used to pump explosive or dangerous liquids (fig. 5).
- It is always recommended to use a safety rope fixed to the pump head, to prevent any damages (fig. 6).
- Disconnect the submersible pump from electric supply before making any operation on the pump.
- An ON/OFF switch must be installed, to cut off the power from the submersible pump, in order to prevent any damages (fig. 7).
- The maximum distance between the pump and the delivery point is 3 m and a correct safety for all cables. It is necessary to provide the correct fuse for every phase (fig. 7).

4. TRANSPORT AND STORAGE

The submersible motors must be kept in its original packaging, the product must be stored in a covered and dry place, far away from heat sources and protected against humidity. The product must be stored at an ambient temperature between -15° and +35° C. Any operation, assembly and disassembly of the submersible motor must be carried out carefully and using the appropriate tools (fig. 8).

5. APPLICATION AND LIMITS OF APPLICATION

- All Resson products are built before delivery, in order to guarantee a long life to the products and a full service for customers.
- Resson submersible motors are developed to pump soft and clean water, without solid particles, or fibres. The maximum quantity of sand allowed is 150 g/m³ (fig. 9). They do not work correctly if partially clogged with sand. The pump must be cleaned after each use. The pump installation must be eventually clean the borehole from sand.
- The maximum operating temperature of the pumped water is 35° C for encapsulated, water-cooled motors and 40° C for oil-cooled motors (fig. 10).
- The degree of protection is IP68.
- Resson submersible motors can be installed in 4th or bigger wells shafts,

they are design to be used in applications for filling, distribution and pressurisation in a civil and industrial water system, garden irrigation system, filling of pressure vessels and tanks, fire lighting systems and washing systems, drainage systems and fountain supply. They cannot be used to pump productions, explosive liquids, aggressive liquid or liquid for other purposes (fig. 5).

Before installing the product, please refer to regulation CEI 61-450 - EN 60335-2-41.

- Resson submersible motors must be heavily submerged in water and the motor must not rest on the bottom of the well (fig. 9). It will be seriously damaged if attempts are made to use outside water (fig. 5).
- The motor must be submerged in water at least 15 cm (fig. 5).
- A flow of water of at least 8 cm/s around the motor's casing must be guaranteed. In case the submersible pump is used in tanks or boreholes with diameter larger than 4", it is recommended to install a proper cooling jacket to guarantee the correct cooling flow.

6. ASSEMBLY AND INSTALLATION

6.1 ASSEMBLY OF THE PUMP UNIT

Resson submersible motors can be coupled only to 4th submersible hydraulic parts in compliance to EN64 standards. These instructions only refer to the Resson 4th submersible motors: before the assembly, read carefully the instructions provided by the manufacturer of the hydraulic part (fig. 4).

For correct assembly, respect the sequence described below (fig. 12):

1. Fix the motor (A) and the hydraulic part (B) horizontally on a flat surface.
2. Make sure that the motor shaft, the hydraulic part coupling and the coupling surfaces are clean.
3. Before assembly, manually rotate the motor shaft (C), which must turn freely after having overcast the friction due to adhesion.
4. Smear anti-fret and water-resistant grease on the teeth (D) inside the hydraulic part coupling.
5. Remove the cable cover (E) from the hydraulic part's outer sleeve, by unscrewing the fastening screws (F).
6. Remove the nuts (G) and the washer (gromet) (H) from the motor threaded screws (I).
7. Couple the hydraulic part (B) to the motor (A), so that the pump head (J) is correctly aligned with the motor shaft (C).
8. Place the 4 washers (gromet) (H) and nuts (G) on the motor threaded screws (I). Tighten the nuts on the threaded screws (alternating in a cross sequence with a tightening torque of 16-20 Nm (Gasmess steel) 11-12 Nm (technopolymer)).
9. Fast the power supply cable along the hydraulic part's outer sleeve, cover it with the cable cover (E) and screw the 4 fastening screws of the cable cover (F).
- **Attention:** check radial and axial clearance of the motor shaft. There must be no rigid connection between the motor and pump, otherwise they will be damaged during running.
- It is always recommended to use a safety rope fixed to the pump head, to prevent any damages (fig. 6).
- Do not use the power supply cable to lift the pump from the borehole or to transport (fig. 11).
- It is recommended to install a non-return valve on the delivery pipe, to avoid water hammer (fig. 2).
- Resson submersible pumps are designed to work in vertical and horizontal position.
- Please pay attention, not to damage the supply cable during the possible installation of the pump. The supply cable is not recommended to be bent to the delivery pipe every 3 meters (fig. 11).
- When the flow available in the borehole is smaller than the flow delivered by the submersible pump, in order to avoid any malfunction, it is necessary to reduce the submersible pumps flow (by partially closing the tap) or to change the submersible pump with a smaller size model.
- Maximum installation depth below water level: 150 m (100 m for **series 02**).

6.3 ASSEMBLY OF THE POWER SUPPLY CABLE

Follow the instruction in figure 14:

- Take away the protection cap from the connector (A).
- Clean the plug (B) and the socket (D) from dirt and humidity.
- Coat silicon grease or vaseline on the rubber pad of the socket (C), to form a light barrier. The grease must not to touch the connector's contacts.
- Inserting the plug (B) into the socket (D).
- Tighten the fastening plug (B) using the screw provided, with the correct screwing torque (3-5 Nm (F)).
- Fix the power supply cable against the pump, making a pass possible damage.
- Check the motor power supply cable against the possible damage.
- To disassemble the power supply cable, repeat the above operation in reverse order.

6.4 EXTENSION OF THE POWER SUPPLY CABLE

The power supply cable provided can be extended by the user. In case of power supply cables extensions, we recommend using appropriate joint with strain relief or sealing compound (or sand) following the instructions of the manufacturer. The extension must be made in a dry place for its use in the environment. It is installed. The correct size of cable should be calculated for its length, in respect of the data shown on the submersible pump label.

6.5 ELECTRICAL CONNECTION

- The electrical connections and the installation of the submersible pump must be done by a qualified technician.
- The power supply cable, if damaged, must be replaced only by qualified technicians.
- An ON/OFF switch must be installed, to cut off the power from the submersible pump, in order to prevent any damages (fig. 7).
- The installation at any time. This switch should have a minimum distance from the contacts 3 mm and a correct separator for all poles. It is necessary to provide the correct cable size for every phase.
- The electric network must be provided with an adequate earthing, conducted with regards to sizing the earthing system, please consider the power of the submersible pumps' motors according to regulation IEC 364-5-54 and EN 60034-1.
- Make sure that the voltage and frequency of the submersible pump, are compatible with one of the supply mains.
- Pay attention to the selection of the correct power supply cable, considering the voltage and frequency of the supply mains. The correct documentation (fig. 4, 16). The use of a power supply cable of wrong section will seriously damage the motor.
- Do not use the power supply cable to lift the submersible pump from the borehole or to transport it, in case of long unused periods, it is recommended to disconnect the pump's power supply cable from the grid.
- Single-phase 2-wire submersible motors from **series H2-02** are equipped with integrated capacitor and thermal protection. They can be directly connected to the mains supply.
- Single-phase FSC submersible motors from **series H3-03** need a start and run control panel (with capacitor and amperometric protection).
- Three-phase submersible motors from **series H1-01** need a start and run control panel (with capacitor and amperometric protection).
- The capacitor operator's case required, is given on the motor's label.
- Submersible motors from **series H1-01** are three-phase motors, a motor protector must be fit in the control panel as stated in point 6.5.
- FUSE AND SUBMERSIBLE PUMP MOTOR'S PROTECTION:
- For the correct electrical connection, refer to the rated value and the wiring diagram shown on the submersible pumps' label, as well as the referred safety instructions (fig. 17, 18).
- The following information only refers to the motor and does not

provide any indications on the control devices installed upstream.

6.5 FUSELS AND SUBMERSIBLE PUMP MOTORS PROTECTION

- Suitable fuses must be fit for each phase and an emergency stop device must be fit (fig. 1).
- 2-wire single-phase **H2-02** motors can be directly connected to the mains supply. The safety fuse must be placed in the main supply cable, in compliance with EN 60924-4, 1, in order to protect the motor from over-temperature and current overload conditions. In case of over-temperature and current overload in the motor, in case the motor works in over-temperature or current overload conditions, the motor can be removed with a manual reset.
- The motor returns to normal temperature conditions (cooling at least 15 minutes).
- reconnect the motor's power supply cable to the mains. In case the motor can't restart, repeat the reset operation waiting some more time to restore normal temperature conditions.
- For FSC single-phase **H3-03** motors and three-phase **H1-01** motors, the motor must be protected with a thermal relay. The thermal relay must be in compliance with EN 60924-4, 1, in order to protect the motor from over-temperature and current overload conditions. In case of over-temperature and current overload in the motor, in case the motor works in over-temperature or current overload conditions, the motor can be removed with a manual reset.
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