DRP

Описание и технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Эл. почта zsd@nt-rt.ru || Сайт: https://zds.nt-rt.ru/

DRP

DRY RUNNING PROTECTION DEVICE

The Pump Protector - DRP is an innovative electronic device that guarantees optimal protection of the submersible pump from dry running and other possible installations faults or operation failures. The DRP is ready to use device, it is integrated into the connection cable and it doesn't need any further installation. In case of water shortage the DRP stops the pump when the water is below its sensor. The DRP (observing a programmed time) restarts the pump when the water rises above its sensor.
Compared with traditional solutions, no additional cables, sensors and control boxes are needed. The DRP device has been developed and tested to protect the submersible pump from burnout in case of water shortage and in case of pump's repeated starts and stops (for example when the air in a pressure tank is low or the membrane is damaged). Please note the other protections below.

Single-phase kW: 0,37 - 2,2
Three-phase kW: 0,37 - 4
Voltage range single-phase: 220-240V / 50Hz
Voltage range three-phase: 380-415V / 50Hz
Degree of protection: IP 68
Rated ambient temperature: -10/+40° C
Casing: Thermoplastic material

AUTOMATIC PROTECTIONS

DRY-RUNNING PROTECTION

The DRP completely protects the submersible pump against lack of water in the well, without the aid of other equipment (probes, cables, sensors, control panels etc.). In case of dry running, the DRP automatically stops the pump. the DRP restarts the pump after a programmed cycle time.

CURRENT OVERLOAD PROTECTION

The motor is protected against overload. In case the pump is partially o totally blocked, the DRP, after some automatic re-start attempts, makes it enter the stand-by mode. * Protection not available for O3 motors.

PROTECTION AGAINST TOO FREQUENT START&STOPS

The DRP protects the submersible pump against leaks in the piping system (also when the pressure tank is exhausted or its membrane is damaged, or when there is a defective pressure switch) and too frequent starts and stops (for example if the tank is too small for the system). In such cases, to avoid potential damages, the DRP makes the pump enter the stand-by mode.

LOW VOLTAGE PROTECTION

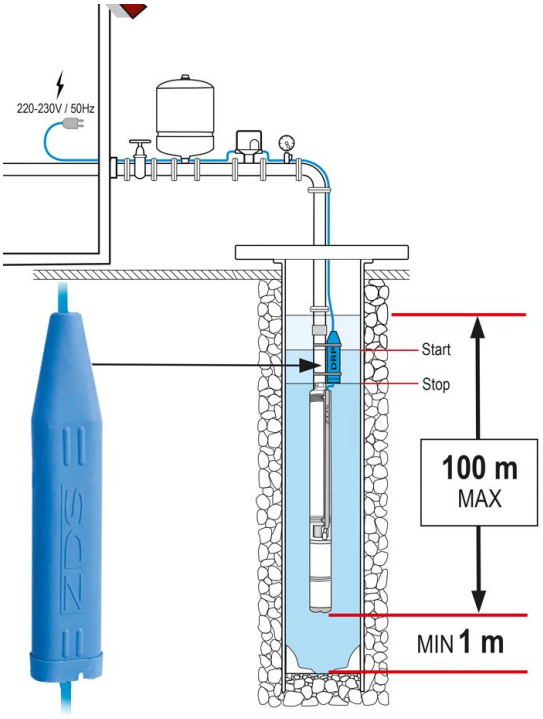
The DRP protects the submersible pump against low voltage, that can damage the motor. Low voltage can occur, for example, if the section of the power cable is not adequate considering the motor power and the distance between the plug and the pump itself; or if a generator is faulty or undersized for the pump.

PHASE-LOSS PROTECTION

The DRP protects the pump against phas-loss (for example caused by a brake of a fuse). The DRP protects the motor against damaging.

INFORMATION ON A PROPER INSTALLATION

- If the DRP reaches the standby mode, it may be reset simply by disconnecting the power supply.
- The DRP must NOT be used with a frequency inverter.
- DRP doesn't work with demineralized water (such as rainwater).
- DRP must not be used as a float.
- The DRP must be immersed in the same water as the pump in order to ensure continuity between the DRP and the pump casing.



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