

NT.DRP

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HT.DRP

4" THREE-PHASE ENCAPSULATED WATER-COOLED MOTOR HT.DRP (3X380-415V / 50 HZ)

Electric motors from series HT are 2 pole asynchronous three-phase submersible motors designed to operate coupled to hydraulic parts

with 4" Nema standard. They are made of materials suitable for contact with water, and cooling and lubrication of the thrust block and bushes are guaranteed by a mixture of water and glycol.

HT motors require a start, operation and protection system. Supply cable connector, removable for quick and easy maintenance is equipped with the DRP protection device. The DRP is an electronic device that guarantees optimal protection of the submersible pump from dry running, located in the pump supply cable just above the pump. In case of water shortage, the DRP stops the pump immediately, the water drops below the DRP to allow water to flow into the bore hole. Thus the pump operation is directly proportional to the water supply for optimum efficiency. In contrast to traditional solutions, no additional cables, sensors and control boxes are needed. The DRP device has been developed and tested to make the submerged pump function autonomously in conditions of water shortage. The DRP is ready for use, integrated into the connection cable and needs no further installation.

APPLICATIONS

HT encapsulated water-cooled motors ensure reliable working in 4" or larger diameter wells and are designed to be used for lifting, distribution, and pressurisation of water in water systems.

CHARACTERISTICS OF CONSTRUCTION

- 2 pole asynchronous three-phase encapsulated water-cooled motor.
- Axial and radial water-lubricated bearings allow for maintenance-free operation.
- Hermetically sealed stator by 304L stainless steel flanges, internal and external casings, filled by resin to guarantee optimal cooling capacity of temperature during operation.
- Rotor set on Kingsbury thrust block equipped with carbon clearance ring and oscillating pads in high-strength stainless steel to sustain high axial loads.
- Pre-filled with non-contaminating antifreeze lubricant liquid.
- Sand protection to guarantee optimal operation even with sand in the borehole.
- Removable lead connector to make installation and maintenance easier.
- Supply cable according to drinking water regulations (ACS), available in different lengths.
- DRP protection device integrated into the connection cable available for all powers.

kW: 0,37 - 3

Voltage range: 3x380-415V / 50Hz

Flange: 4" NEMA standard dimensions

Voltage tolerance 50Hz from nominal: +6% / -10% Un

Rotation: reversible

Degree of protection: IP 68

Insulation: F

Rated ambient temperature: max 35° C

Cooling flow: min 8 cm/sec

Maximum starts/h: 150, equally distributed

Mounting: vertical/horizontal

Maximum immersion depth: 300 m

Allowed range of water pH: 6,4 - 8,0

Thrust: 1.500 N, 3.000 N (according to ranges)

Protection requirements: For HT motors an overload protection and a control unit for motor start and run must be installed according to EN 60947-4-1 trip time < 10 sec. at 5xIn.

AUTOMATIC PROTECTIONS

DRY-RUNNING PROTECTION

The DRP completely protects the HT.DRP submersible motor 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.

PROTECTION AGAINST TOO FREQUENT START&STOPS

The DRP protects the HT.DRP submersible motor against leaks in the piping system (also when the pressure tank is exhausted or its membrane is defective, 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.

CURRENT OVERLOAD PROTECTION

The HT.DRP submersible motor is protected against overload. In case the pump is partially or totally blocked, the DRP, after some automatic re-start attempts, makes the pump enter the stand-by mode.

LOW VOLTAGE PROTECTION

The DRP protects the HT.DRP submersible motor 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 HT.DRP submersible motor is protected against phase-loss (caused by a break of a fuse). The DRP protects the motor against damaging.

INFORMATION ON A PROPER INSTALLATION

- Before installation, it is necessary to verify technical requirements of the given hydraulic part (thrust, power) to select the correct motor.
- If you are using a generator with an internal combustion engine, it is necessary that the generator's power measured in kW (in continuous delivery) is three times the rated power in kW of the submersible pump.
- We recommend to install a proper cooling jacket in installations bigger than 10 cm, to guarantee the correct motor cooling flow.
- The DRP must NOT be used with a frequency inverter.

- DRP doesn't work with demineralized water (such as rain water).
- 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.
- In order to reset the electronic protection, disconnect the pump power, wait 10 seconds, then plug it in again.

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