

FRS

TECHNICAL SPECIFICATIONS

REWINDABLE MOTORS

MOTOR/PUMP FLANGE
4" NEMA STANDARD

POWERS

Single-phase: from 0,5 to 3 Hp
Three-phase: from 0,5 to 10 Hp

VOLTAGE

Single-phase: 230 V / 50 Hz - 220 V / 60 Hz
Three-phase: 230;400 V / 50 Hz - 220;380 V / 60 Hz

THRUST LOAD

From 0,5 to 3 Hp: 2000 N
From 3 to 4 Hp: 3000 N
From 5,5 to 10 Hp: 5000 N

CONSTRUCTION FEATURES

PARTS IN CONTACT WITH WATER all made in AISI 304 stainless steel.

EXTERNAL SLEEVE AND BOTTOM made in AISI 304 stainless steel. More specifically, sleeve is made of AISI 304L (Low carbon) to avoid possible corrosions of the welding.

UPPER BRACKET made in cast iron with cathoporesis treatment and protected with an AISI 304 stainless steel cover. Sleeve clamping is ensured by 4 inserts in low power motors and 6 inserts in motors bigger than 3 Hp.

MECHANICAL SEAL made in graphite/ceramic in the standard version; SIC-SIC version available upon request.

BALL BEARING duly oversized to ensure a long lasting motor.

STATOR with 24 slots, specifically developed to achieve maximum electrical yield. Airtight sealed and immersed in selected mineral white and highly refined oil, suitable to be used in drinking water (F.D.A., *Food and Drug Administration*, approved).

REMOVABLE POWER CABLE-CONNECTOR to ensure a perfect sealing, also in the most critical conditions, and to aid maintenance operations. More specifically, the connector prevents oil from rising in the conductors up to the joint, thus enabling immersion at greater depths. The power cable complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

SHAFT made in carbon-steel alloys in the rotor area, to foster electrical features. AISI 304 stainless steel projection. DUPLEX, a special type of stainless steel, replaces AISI 304 in motors bigger than 3 Hp. This steel combines excellent resistance to corrosion and high mechanical resistance, which is necessary where static torque becomes really important.

SAND PROTECTION FILTER in addition to the standard sand protection system. It's a special filter that stops any impurities that may get in contact with the external face of mechanical seal. This ensures a longer mechanical seal lifetime.

100% TESTED, all motors are tested at the end of the line. Seal and electrical checks are carried out on all motors.

OPERATING LIMITS

DEGREE OF PROTECTION
IP 68

INSULATION CLASS
F

VOLTAGE TOLERANCE
-10% / +10%

PUMPED LIQUID TEMPERATURE
0°C – 35°C

MIN. COOLING FLOW
0,1 m/s

MAX. STARTS / HOUR
30

MOUNTING
Vertical and/or horizontal

MAX. IMMERSION DEPTH
200 m

SINGLE-PHASE VERSION
PSC type (Permanent Split Capacitor).

DIMENSIONS



