EBARA

AISI 304

AISI 316



BSM

6” TO 10” WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

DURABLE

The rewindable design, the use of high resistance materials and the solid mechanical and electrical construction guarantee a long-lasting working life and low maintenance cost

POWERFUL

The wide range of sizes available, the high power ratings up to 166 kW (225 HP) and the choice among various grades of stainless steel construction, ensure the motors to be suitable for any submersible installation: from the typical groundwater supply to heavy-duty industrial applications

RELIABLE

The whole range is designed and manufactured by top-rated Turkish manufacturer and has been fully tested and approved in accordance with the most severe Japanese quality standards



Technical Data

- Ratings: 4 ÷ 45 kW (6”); 30 ÷ 92 kW (8”); 81 ÷ 166 kW (10”)
- Voltage (50Hz): 380–415 V [±10%]
- PE2+PA winding wires
- Max. water temperature: +40°C (6”); +30°C (8” – 10”)
- All motors equipped with lead cables directly connected with the windings
- Cable length: 4m (6” – 8”); 5 m (10”)
- DOL or Y/D starting type available
- PT100 Thermal sensor housing available for additional overheating protection
- Horizontal installation allowed

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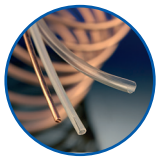
Based on the materials used for the parts in contact with the pumped liquid, the motors are available in 3 different configuration, each with **improved corrosion resistance**:

- **BSM**: AISI 304 stainless steel stator + cast iron top and bottom supports
- **BSM 3S**: all parts in contact with the pumped liquid in AISI 304 stainless steel
- **BSM 3SL**: all parts in contact with the pumped liquid in AISI 316 stainless steel



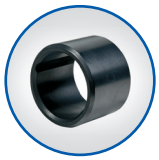
6” and 8” connection flange design and shaft end shape are compliant to **NEMA standard**, ensuring compatibility with submersible pumps of any make



High quality PE2+PA winding wires have very high mechanical properties (i.e. tensile strength and elongation) and electrical performances (i.e. insulation resistance and dielectric properties). Both superior performances are guaranteed even at high temperature due to increased heat resistance of cross-linked polyethylene. This leads to a longer service life of the motor and a reduced failure rate



Connection between lead cables and winding wires is located inside the motor and the joint is made by experienced operators during motor assembly. Specially designed cable seals prevent the water from both inside the motor and outside to reach the joint area, **minimizing the risk of short-circuit and electrical failures**



Water lubricated radial Carbon bearings, reinforced with chrome-plated steel collet, provide **durable rotation of rotor shaft and precise alignment** of the shaft in every operative situation



Increased sand and abrasive particles resistance sealing system with Mechanical Seal (Cer/Car on BSM motors and SiC/SiC on 3S and 3SL version) and NBR sand slinger. This system prevent the solid particles inside the water to get into mechanical seal and then inside the motor, protecting shaft bearings over long life operation



Heavy duty Michell-type thrust bearings allow the motor to rotate both **CW** and **CCW** and are designed for **high thrust capacity** (up to 26,5 kN on 6” motors, up to 55 kN on 8” motors and 75 kN on 10” motors)



Pressure balance checkvalve guarantee the **control of proper cooling water quantity** inside the motor. When the pressure increase (heating expansion) it flows the water from inside the motor; when the pressure decrease it allows the water from outside to be filtered and flow inside the motor in order to refill at the correct level

Motors are filled with a **no-toxic water-based solution** (water and propylene glycol) that **minimize the risk of water contamination** and guarantees **lubrication of rotating parts** inside the motor and proper **heating dissipation** of electrical elements

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