



4" Submersible Motors

Two & Three Wire
Single & Three Phase
1/2 - 7-1/2 HP 230 & 460 Volt

Heavy Duty Design!



'E' Series

HEAVY DUTY SUBMERSIBLE MOTORS

American-Marsh 4" Heavy Duty **High Thrust** Motors are designed with quality material and unique features to assure years of dependable operation. Motor performance meets and exceeds that of other manufacturers. Horsepower and temperature ratings are continuous for operation at 104°F at 0.5 ft./sec. cooling flows past the motor.

QUALITY ENGINEERING & MATERIALS

The NEW American-Marsh 4" **High-Thrust** water well submersible motors feature 304-grade stainless steel "encapsulated, resin-filled stator design," using professional grade class-F compliant motor insulation, which allows for additional motor life.

FEATURES

Wound Stator

Stators feature enameled copper wire that is completely protected by a stainless steel cylinder and resin filled to dissipate heat quickly.

Motor End Bells

Precision-machined heavy-duty cast iron with 304-grade stamped stainless steel end bell covers.

Larger Shaft

Heavy duty, large diameter shaft for better power transmission.

Motor Leads

All motor leads are double-insulated, watertight, and field replaceable.

Thrust Bearings

Field proven thrust bearings utilize a three shoe design allowing the motor to compensate for higher axial loads. This superior design ensures greater protection and more down thrust load than other submersible motors.

Class F Insulation

Allows more starts/stops than other motors
More insulation allows for additional motor life.

American-Marsh Submersible Motors



4" Submersible Motors

Two & Three Wire
Single & Three Phase
1/2 - 7-1/2 HP 230 & 460 Volt

'E' Series

MATERIALS OF CONSTRUCTION

PARTS

End Bells

Motor Shaft

Insulation

Fasteners

Seal

Sand Boot

Cable

Cable Length

Diaphragm

Thrust Bearings

Thrust Load Capacity

MATERIALS

300 series stamped
stainless steel

431 series stainless steel

Class F, 311 F (155 C)

300 series stainless steel

Double lip seal

Nitrile

Field serviceable, sealed 4
conductor, PVC insulated

1/2 to 7-1/2 HP - 78"

EPDM

Heavy Duty, three shoe, Kingsbury-type,

420 stainless steel/carbon graphite

Standard Rating

1/2 to 7-1/2 HP - **1500 lbs.** (6500 N)



TECHNICAL DATA

Power Range

1/2 - 2 HP - Single Phase
Incorporated with Motor Protector

1/2 - 7-1/2 HP Three Phase

Speed

3450 RPM

Versions

230 V Single Phase 60 Hz. A.C.

460 V Three Phase 60 Hz. A.C.

Degree of Protection

IP58

Direction of Rotation

CCW - Single Phase

CW & CCW - Three Phase

Type of Duty

S1 (Continuous)

Maximum Down Thrust

1500 lbs. (6500 N)

Maximum Outer Diameter

3.85 in (98 mm)

Linear Flow Requirement

0.25 ft./sec. (0.8 m/sec.)

Maximum Liquid Temp.

104 F (40 C)

Method of Starting

Single Phase

Permanent split capacitor

Capacitor start & capacitor run

Three Phase

Across the line

Cable Connection

2/3 wire replaceable leads

185 Progress Road, Collierville, TN 38017
Phone: (800) 506-7167 Fax: (901) 363-1423
www.american-marsh.com

