

mody

ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-100/120 SERIES

**PORTABLE ELECTRIC
SUBMERSIBLE PUMP FOR
CORROSIVE & ABRASIVE
APPLICATIONS**

.....
1.3 HP (1kW)

M 100ST / M 100T (1 or 3 Phase)
2"(50mm) NPT or Hose

.....
1.5 HP (1.1kW)

M 106ST / M106T (1 or 3 Phase) 60Hz
2"(50mm) NPT or Hose

.....
2 HP (1.5kW)

M 120T
2"(50mm) NPT or Hose

.....
2 HP (1.5kW)

M 126T (60 Hz)
2"(50mm) NPT or Hose



M-100/120 DESIGN ADVANTAGES

- Stainless Steel Strainer, Shaft, Impeller, Outlet and Hardware for maximum corrosion resistance.
- Choice of impeller materials:
 - 1) 316 Stainless Steel for sea water and corrosive applications and;
 - 2) Nitride Hardened 410 Stainless Steel for abrasive applications. (Standard)
- Tandem Tungsten Carbide/Tungsten Carbide and Tungsten Carbide/Tungsten Carbide mechanical seals.
- Mechanical Seals in wholly enclosed pressure compensated oil chamber.
- Field adjustable Nitrile Rubber-lined Diffuser Optimizes efficiency throughout the life of the pump. Optional Polyurethane Diffusers are available.
- Stainless Steel Wear Plate Standard.
- Automatic ON/OFF/ON Thermal Overloads embedded in Stator Winding Optional - requires 6 core cable and external controls.
- Equipped with Sacrificial Zinc Anodes for maximum life in a saline fluid environment.
- Available in complete 316 Stainless Steel Construction with Silicon Carbide/Silicon Carbide Mechanical Seals and Viton® Elastomers.

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Pumps

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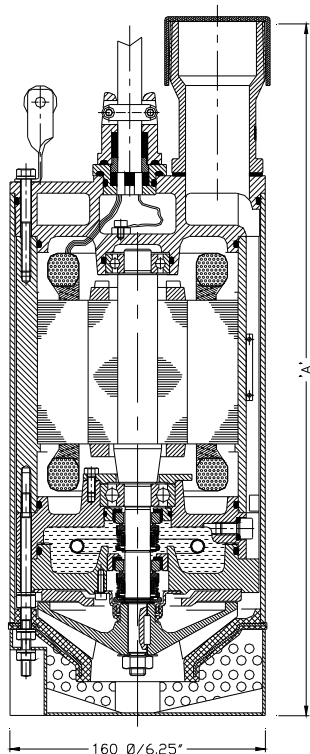
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ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-100/120 SERIES

1.3HP(1kW) / 1.5HP(1.1kW) / 2HP(1.5kW)

Model	'A'
M-100/106T	16.50"
M-100/106ST	16.75"
M-120/126T	17.00"



M-100/120 SERIES

MATERIALS OF CONSTRUCTION AND ENGINEERING DATA

MOTOR

2-pole induction **continuous rated** motor with squirrel cage rotor.
 Stator insulation class 'H' (180°C).
 Speed: 3400 RPM @ 60 Hz, 2800 RPM @ 50 Hz
 Power Rating: 1.3/1.5/2HP @ 60Hz, 1/1.5kW @ 50Hz Full Load
 Current FLA: 2/2.2/3.4 Amps @ 460v, 2.3/3.9 @ 400v Three Phase
 19Amps @ 115v, 10Amps @ 220v Single Phase
 Max. temperature of the pump liquid : 104°F/40°C
 Max. start/stop per hour : 15

POWER SUPPLY

1 & 3 phase, 50/60 Hz, AC Supply. Available in any voltage frequency combination.(115/208/220/230/380/415/460/575/1000V)

BALL BEARINGS

The rotor shaft is carried in two single row, deep groove ball bearings.
 The bearings are enclosed with high temperature grease-containing special Anti-corrosion additive.

POWER CABLE

Waterproof/oil proof, rubber-insulated, neoprene-sheathed copper conductor flexible cable, 50ft. (15m) length standard. Type SOOW in North America, EPR in the Middle East and HO7RN in the EU. 6 Core with thermal overloads optional.

SHAFT SEAL

Tandem Tungsten Carbide/Tungsten Carbide and Tungsten Carbide/Tungsten Carbide Mechanical seals wholly enclosed in a pressure compensated oil chamber.

CORROSION RESISTANT

Epoxy coated Aluminum Outer Casing
 Epoxy coated Extruded Aluminum Stator Casing
 Nitrile Rubber- Lined Diffuser. Polyurethane Optional.
 Shaft: 431 Stainless Steel
 Hardware: 304 Stainless Steel
 Impeller: Nitride Hardened 410SS to 56HRC is Standard.
 pH Range: 5 - 8

STRAINER

304 Stainless Steel with 1/4" (6mm) round holes.

SUBMERGENCE

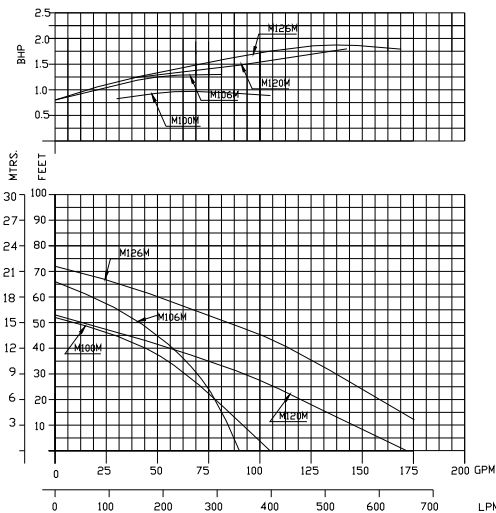
Submergence below liquid surface min 5" (127mm) max. 50' (15m).

WEIGHTS (Approx. without cable)

M 100:	35lbs. (16Kg)
M 100S:	39lbs. (18Kg)
M 106:	35lbs. (16Kg)
M 106S:	39lbs. (18Kg)
M 120:	39lbs. (18Kg)
M 126:	39lbs. (18Kg)

PERFORMANCE CURVES

MODEL: M100T/106T/120T/126T (50/60 Hz)



Due to continuous product development, specifications are subject to change without notice.

03.10.Rev.0