

# **mody** ELECTRIC SUBMERSIBLE DRAINAGE PUMP

## **M-700 SERIES**

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

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### **Model M-702T**

6" NPT or Hose  
16 HP (12kW)  
(High Volume - Low Head)

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### **Model M-706T**

4" NPT or Hose  
16 HP (12kW)  
(Low Volume - High Head)

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## **M-700 DESIGN ADVANTAGES**

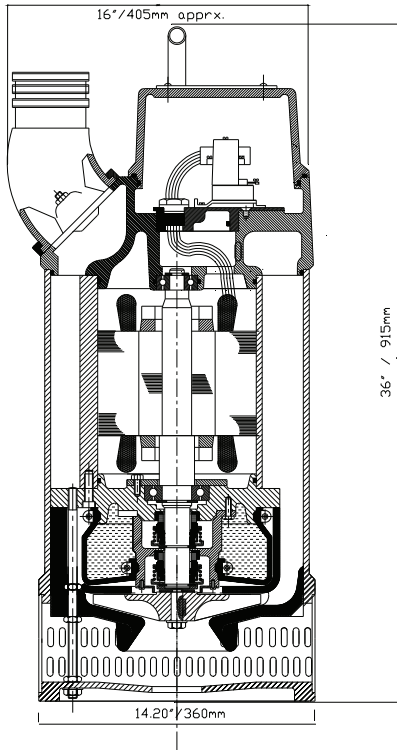
- Stainless Steel Strainer, Shaft, Impeller, Outlet and Hardware for maximum corrosion resistance.
- Choice of impeller materials:
  - 1) 316 Stainless Steel for sea water and corrosive applications and;
  - 2) Nitride Hardened 410 Stainless Steel for abrasive applications. (Standard)
- Tandem Tungsten 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/Wear Plate Optimizes efficiency throughout the life of the pump. Polyurethane Diffusers and Wear Plates are available.
- Automatic ON/OFF/ON Thermal Overloads embedded in Stator Winding - requires built-in contactor optional.
- Seal Probe Sensor Option available. Requires external controls.
- 1 meter long SS Sheath protects the power cable in demanding mine applications.
- Equipped with Sacrificial Zinc Anodes for maximum life in a saline fluid environment.



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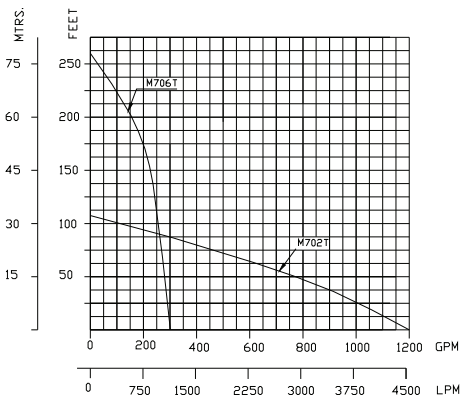
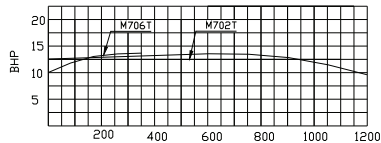
# mody ELECTRIC SUBMERSIBLE DRAINAGE PUMP

## M-700 SERIES 16HP (12kW)



### PERFORMANCE CURVES

MODEL: M702T/M706T (50/60 Hz)



## M-700 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 : 16HP @ 60 Hz, 12kW @ 50Hz Full Load  
 Current FLA: 22 Amps @ 460v. 25 Amps @ 400v.  
 Max. temperature of the pump liquid : 104°F/40°C  
 Max. start/stop per hour : 15  
 Star - Delta Starting Optional

#### POWER SUPPLY

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

#### BALL BEARINGS

Single row deep groove upper bearing. Double angular contact lower 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.

#### 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 Steel Outer Casing  
 Epoxy coated Aluminum Stator Casing  
 Nitrile Rubber- Lined Diffuser/Wear plate.  
 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 1-3/16" (25.5mm) X 3/16" (5mm) {M 702}, 3/8" (10mm) Round Holes {M 706}

#### SUBMERGENCE

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

#### WEIGHTS (Approx. without cable)

M 702: 300lbs. (136Kg)  
 M 706: 325lbs. (148Kg)