

mody

ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-750 SERIES

The pumps are portable & are intended to be used for pumping of water from :

- Construction sites
- Trenches
- Mines
- Power station
- Water supply
- Flooded Cellar
- Open sumps
- Tunnels
- Shipyards & ships
- Public utility works
- Fire fighting
- Aquaculture

Model M-752TM

Outlet : 6" HOSE (FLANGE / BSPT OPTIONAL)
(HIGH VOLUME - LOW HEAD)

Model M-756TM

Outlet : 4" HOSE (FLANGE / BSPT OPTIONAL)
(LOW VOLUME - HIGH HEAD)

Also Available : 1.5 hp TO 50 hp



M-750 DESIGN ADVANTAGES

- Built-in automatic ON / OFF / ON thermal switches to protect the motor. Thermal Protectors wired directly to built-in contactor for maximum reliability. A relay that automatically trips the pump set in the event of an overload is also incorporated.
- Can be equipped with moisture sensor that detects progressive seal wear and automatically shuts down the pump (Optional).
- Motor is dry winding, leading to
 - a) Better efficiency/lower power consumption.
 - b) Light weight/compact design, giving better portability.
 - c) Better temperature rise characteristics.
- Pump can be operated in fully or partially submerged conditions.
- Twin seals in tandem of TC / TC in wholly enclosed pressure compensated oil chamber.
- Field adjustable Nitrile Rubber-lined Diffuser / Wear Plate to optimize the efficiency throughout the life of the pump.
- SS 431 shaft for high tensile strength and better magnetic properties.
- SS 410 (ASTMA217 Gr CA15) hardened impeller for abrasive applications.
- SS 304 (ASTMA351 Gr CF8) Impeller for sea water/corrosive applications.
- SS 304 hardware for maximum corrosion resistance.
- Can be equipped with sacrificial zinc anodes for maximum life in a saline environment as well as an in-built non return valve or water level controller (**optional**).



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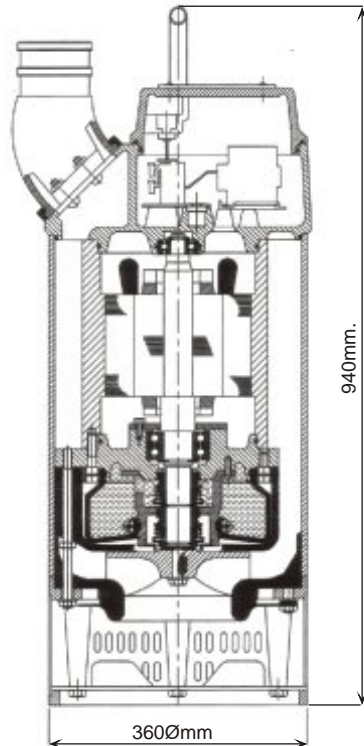
Website : www.modypumps.com

M750TM/00

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ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-750 SERIES 20 HP



M-750 SERIES

MATERIAL OF CONSTRUCTION AND ENGINEERING DATA

MOTOR (DOL-START)

2-Pole Induction Continuous rated motor with squirrel cage rotor.
 Stator insulation class 'F' (155°C)
 Speed : 2,850 RPM (approx.)
 Power Rating : 15 KW
 Current : 28 Amps at 415 Volts
 Max. temperature of the pump liquid : 40°C
 Max. start/stop per hour : 15

POWER SUPPLY

415 V \pm 6%, 3 Phase, 50Hz \pm 3% A.C. Supply. The pump is equipped with built in contractor which trips at excessively high motor temperature through the bimetallic switches in the winding. All models are also available for any combination of voltage and frequency on special request. Overload Relay incorporated as a standard feature.

BALL BEARINGS

The rotor shaft is carried in a single row, deep groove ball bearing (upper) and lower bearing arrangement consisting of two single row angular contact bearing arranged back to back capable of carrying high thrust and radial loads. The bearings are filled with high temperature grease containing special anti - corrosive additive ensuring no maintenance required for life.

POWER CABLE

Water proof / Oil proof, PVC insulated, double sheathed, copper conductor flexible cable 20 mtrs. length, size 4core 6 sq. mm. The cable is fitted with a strain relief grip.

SHAFT SEAL

Twin mechanical seals in tandem. Seal faces of Tungsten carbide v/s Tungsten carbide ensuring long life between service intervals and are wholly enclosed in a pressure compensated oil chamber.

MATERIAL OF CONSTRUCTION

Outer Casing : Epoxy Coated Miled Steel. (Also available in SS 304-Optional)
 Stator Casing : Aluminium Alloy Extruded.
 Rotor Shaft : SS 431
 Impeller : SS 410 (ASTMA 217 Gr CA 15) Also available in SS 304-Optional (ASTMA351 GrCF8).
 Diffuser & wear plate : Nitrile Rubber moulded.

STRAINER : 30 mm x 10 mm rectangular holes for M - 752TM - in S.S. 304
 10 mm round holes for M - 756TM - in S.S. 304

HARDWARE : SS 304

SUBMERGENCE

Submergence below liquid surface min 90 mm, max. 15 mtrs.

WEIGHT **M752TM** **M756TM**
 Without cable : 135 kg. 140 kg.

Pump is painted with epoxy coating with surface treatment for long life

Due to product development, specifications may be subject to change without notice.

20 HP PERFORMANCE CURVE

PUMP MODEL : M752TM/M756TM

