

SPECIFICATION FOR ENERGY EFFICIENT HORIZONTAL AXIALLY SPLIT CASING PUMPS AND MOTOR

Range: Delivery and Suction size: 250X300 mm

Capacity: 850 m³/hr, Head: 70 metres

NPSHA: 3 metres

Application: Suitable for Cold Water slightly contaminated (No Acidic content).

Material of construction:

Casing: Cast Iron

Impeller: Cast Iron

Casing ring: Cast Iron

Pump Shaft & Shaft Sleeve: St St-410.

Constructional Features: Pump shall be horizontal axially split casing with horizontal shaft.

Casing: Pump casing shall be horizontal axially split volute type, suction and discharge nozzles and supporting feet cast integral with lower half casing.

Impellers: Impeller shall be enclosed type accurately balanced for axial thrust load.

Shaft: Shaft shall have high tensile steel accurately machined and ground shall be supported by antifriction bearings. The shaft shall be protected by shaft sleeves from wear in stuffing box area.

Stuffing Box: The stuffing box shall be sealed by gland packing or by mechanical seal and should suitable for water temperature up to 80°C.

Bearings: Deep groove ball/roller bearings shall be provided with lubrication of standard grease. Pump shall have provision for bearing at both DE and NDE maintenance /replacement without removing pump casing.

RPM & Direction of Rotation: Rated RPM-1480 rpm with Standard – Clockwise / Anticlockwise viewed from driving end.

Drive: A suitable electric motor having specification detailed below (to be provided along with pump):

Type: TEFC SQ CAGE

Rating: 225kW/300HP

Mounting: Horizontal

Rated Voltage: 415 +/- 10%

Frequency (Hz): 50Hz +/- 5%

Rated RPM: 1480 rpm; Full Load current: 375 Amps

Insulation Class: B; Method of starting: Star delta Starter

Duty: Continuous

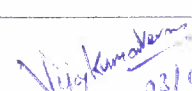
Energy efficiency class: IE 3

Frame: A suitable base frame to be provided for mounting of Pump Motor Set.

Flanges: Standard flange at both suction and delivery side and supplied with counter flanges having neck for welding, gaskets, fasteners including nuts, bolts and washers etc.

Other Features:

- Pump shall have provision for maintenance by removing only upper half casing without disturbing suction or delivery piping.
- Pump shall have vibration free operation.

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