Submersible Induction Motor

Ensures reliable performance and extended run life for ESP system

Applications

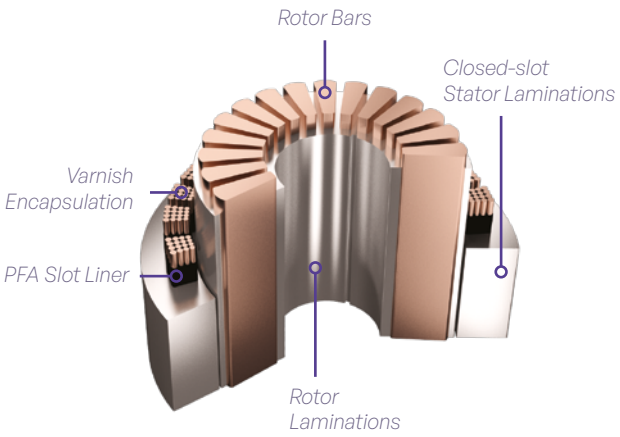
The prime mover for electrical submersible pumps across a wide variety of applications and conditions

Features and Benefits

- Advanced oil filled motor design provides high efficiency and power through the operating range with a motor winding temperature rating up to 392ºF (200ºC) for the increased run life
- In-house manufacturing to the highest standards and consistency along with the quality nickel copper alloy-trim fasteners, robust rotor bearings and closed slot design improves overall system reliability
- Involute spline shaft provides maximum torque capacity
- Compatibility with the Viewpoint downhole sensor allows optimized production with downhole monitoring capabilities
- Multiple sizes and configurations from 20 to 1,500 HP using plug-in or tape-in pothead, variable horsepower and voltage ratings extend application variety
- Locking rotor bearings in all steel stator eliminates rotor bearing spinning for enhanced reliability
- Brazed rotors
  - Optimum rotor conductivity
  - Improved efficiency for motor cooling
- In house magnet wire manufacture ensures insulation integrated and a high quality standard

Levare motors have been designed to achieve maximum reliability through an innovative design and rigorous performance testing in our Research & Technology Center. Proven results are the reason why globally Levare has more motors installed than any other vendor.

These motors can be used in 4.5” casing and larger and range from 20 to over 1,500 horsepower for the most demanding applications.

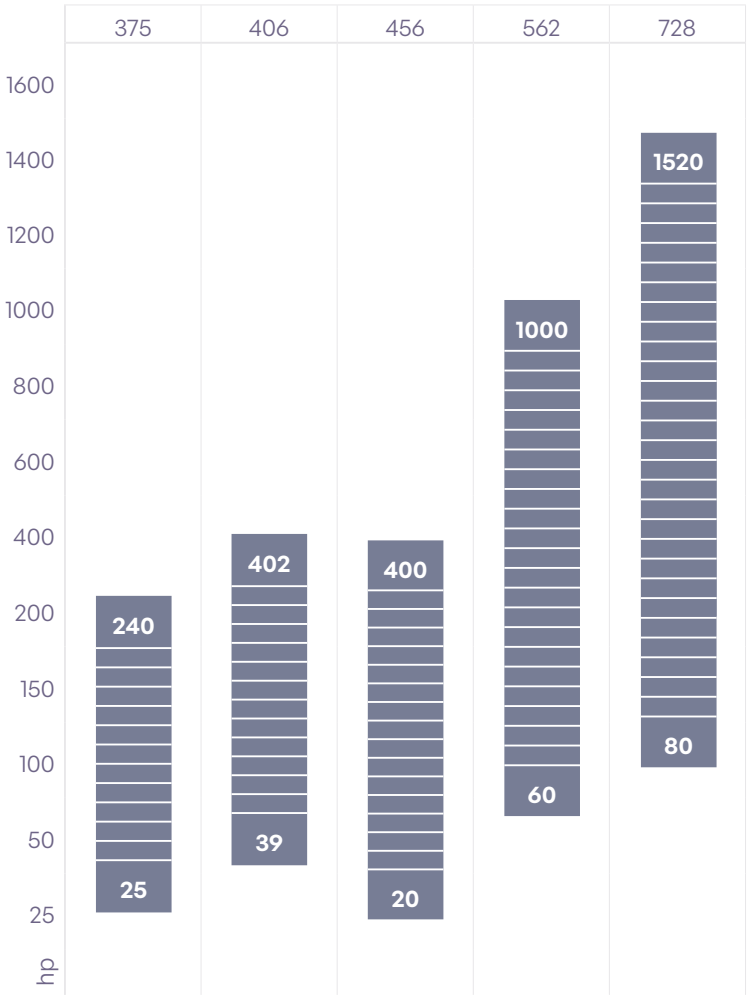


The Levare submersible induction motor is a hand-wound, two-pole, three-phase design that operates at a full-load speed of 2,917 rpm at 50 Hz or 3,500 rpm at 60 Hz. High performance stator laminations and rotors improve efficiency ratings to reduce electrical losses and lower operating expenses.

A high temperature rating of 392ºF (200ºC) is based on a closed slot design with enhanced polyimide magnet wire insulation. The motor is filled with highly refined dielectric oil that provides bearing lubrication and thermal conductivity and fitted with involute spline shafts to provide maximum torque capacity.

Levare motors are compatible with Viewpoint downhole sensor for real-time monitoring of ESP and reservoir parameters.

Motor Data

Motor Series	375	406	456	562	728
Casing, in.	4.5 in. 114.3 mm	5.5 in. 139.7 mm	5.5 in. 139.7 mm	7.0 in. 177.8 mm	9-5/8 in. 220.5 mm
Power Range, HP @ 60 Hz					
Single Section	25 - 80	39 - 155	20 - 200	60 - 500	80 - 760
Tandem	50 - 240	162 - 402	220 - 400	300 - 1,000	up to 1,520
Power Range, HP @ 50 Hz					
Single Section	21 - 67	32 - 129	17 - 167	50 - 417	50 - 475
Tandem	42 - 200	134 - 335	184 - 334	250 - 834	100 - 950
Max Winding Temperature, °F (°C)	392 (200)				
Pothead	Plug-in	Plug-in	Plug-in or Tape-in		Plug-in
Compatible Sensors	ViewPoint				

Available IM Sizes and Horsepower Range