

PR120-1600 AC DRILLING MUD PUMP MOTOR



DRS MOTORS AND GENERATORS ARE DURABLE. Oil and gas drilling operations run day and night, often in remote and harsh environments. Our machines provide high efficiency with minimum maintenance day after day.

PR120-1600 AC DRILLING MUD PUMP MOTOR DESIGNED FOR RUGGED AND EFFICIENT PERFORMANCE

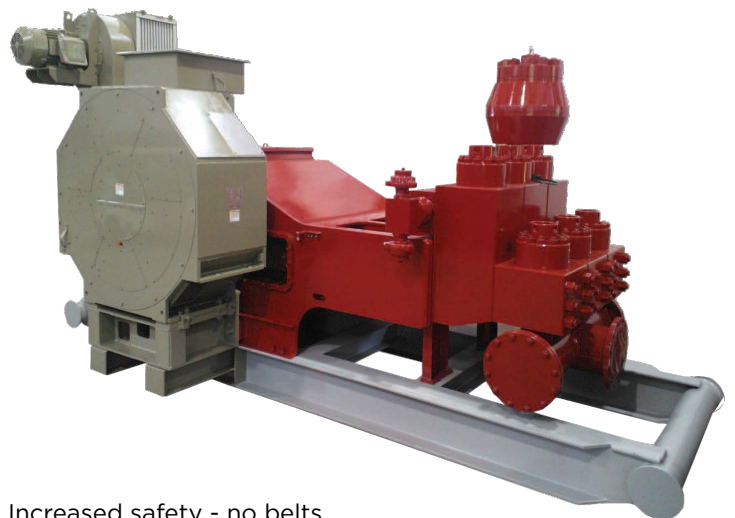
LEVERAGE THE BENEFITS OF PM TECHNOLOGY.

The Leonardo DRS PR series Permanent Magnet (PM) motors are designed to maximize the benefits of a direct drive mud pump configuration. Inherently more efficient than a belt drive configuration a Leonardo DRS PM machine significantly lowers fuel consumption, reduces parts and maintenance expenditures and reduces the footprint and weight of the pump package.

Leonardo DRS is a leader in the design and manufacture of advanced electrical machinery, focusing on machines for demanding jobs where efficient performance and precise control are required.

BENEFITS

- Reduced maintenance - no belts, sheaves, or motor bearings
- Direct drive configuration reduces fuel consumption
- Higher motor efficiency
- Increased safety - no belts, sheaves
- Approximately 12% lower weight and 25% lower volume



PR120-1600 AC DRILLING MUD PUMP MOTOR

FEATURES

- Permanent magnet field poles
- Synchronous motor eliminates slip
- Air cooled 18 pole stator winding
- Class H insulation system
- Direct mounted on pump pinion shaft
- No motor bearings
- IP 54 connection box
- Separate connection box for RTD's and space heaters
- 6 Stator RTD's; Two 100 ohm platinum RTD's per motor phase
- Pressure sensor for blower on verification
- Uses common oil field blower
- IP44 motor housing

OPTIONAL FEATURES

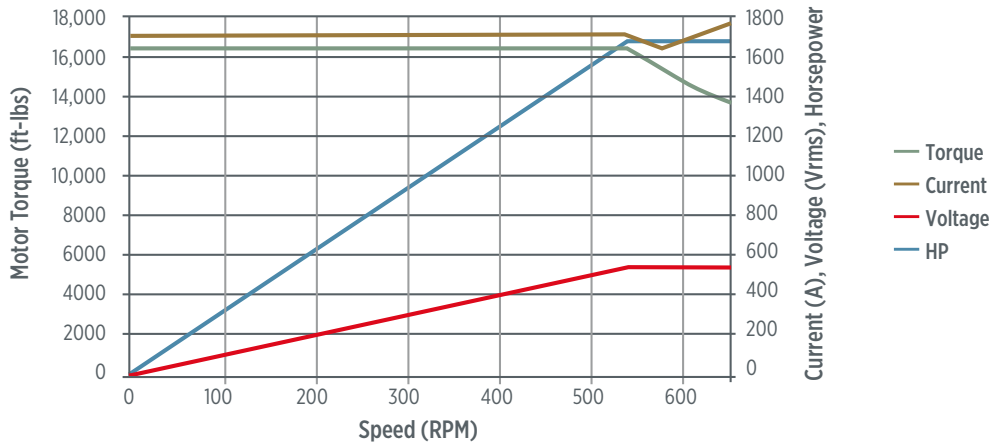
- Encoder
- ABS Certification
- Water cooling
- ATEX Certification

PERFORMANCE RATINGS

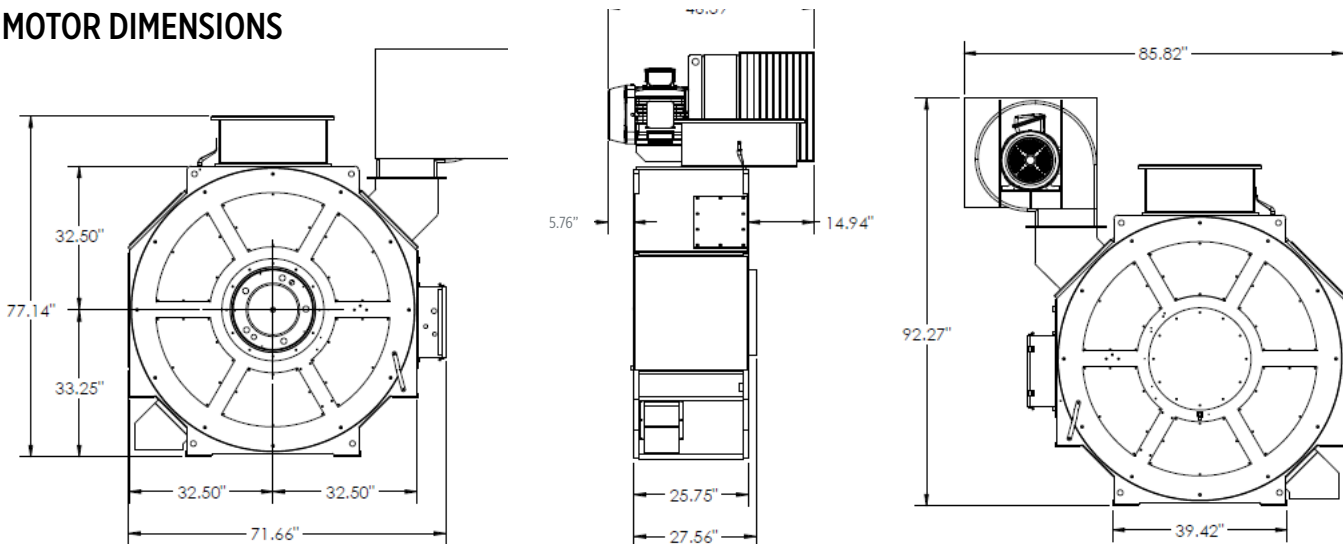
Ratings based on 3300 SCFM airflow and a motor temperature rise of 80°C.
Max allowable ambient 55°C

PERFORMANCE	PR120-1150
Volts	530 V rms
Rated current	1780 Amps
Rated power	1680 HP
Speed at rated HP	540 rpm
Torque	16,340 ft.-lbs.
Frequency at rated speed	81 Hz
Efficiency at rated speed	97.9%
Approximate Weight	8700 lbs.

MOTOR CHARACTERISTICS



MOTOR DIMENSIONS



The information in this data sheet is to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, expressed or implied. Copyright © Leonardo DRS 2017 All Rights Reserved. CLEARED FOR PUBLIC RELEASE - EAR99.

11-2017