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
- Pump can be configured for single or dual use
PR120-1150 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 & 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.

<table>
<thead>
<tr>
<th>PERFORMANCE</th>
<th>PR120-1150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts</td>
<td>580 V rms</td>
</tr>
<tr>
<td>Rated current</td>
<td>900 Arms</td>
</tr>
<tr>
<td>Rated power</td>
<td>1150 HP</td>
</tr>
<tr>
<td>Speed at rated HP</td>
<td>540rpm</td>
</tr>
<tr>
<td>Torque</td>
<td>11,185 ft-lbs.</td>
</tr>
<tr>
<td>Frequency at rated speed</td>
<td>81 Hz</td>
</tr>
<tr>
<td>Efficiency at rated speed</td>
<td>97.9%</td>
</tr>
<tr>
<td>Approximate Weight</td>
<td>7700 lbs.</td>
</tr>
</tbody>
</table>

MOTOR CHARACTERISTICS

MOTOR DIMENSIONS

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