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.

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

OPTIONAL FEATURES
- Pressure sensor for blower on verification
- Uses common oil field blower
- IP44 motor housing

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>530 V rms</td>
</tr>
<tr>
<td>Rated current</td>
<td>1780 Amps</td>
</tr>
<tr>
<td>Rated power</td>
<td>1680 HP</td>
</tr>
<tr>
<td>Speed at rated HP</td>
<td>540 rpm</td>
</tr>
<tr>
<td>Torque</td>
<td>16,340 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>8700 lbs.</td>
</tr>
</tbody>
</table>

MOTOR CHARACTERISTICS

MOTOR DIMENSIONS

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