PR120-1150
AC DRILLING MUD PUMP MOTOR

POWER-DENSE
PERMANENT MAGNET (PM)
DIRECT-MOUNTED MOTOR

The 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 DRS PM machine significantly reduces fuel consumption, reduces parts and maintenance expenditures and reduces the footprint and weight of the pump package.

Since 1985, DRS has been building PM machines and providing rugged motors for drilling applications including top drives. DRS is a world leader in the design and manufacture of advanced electrical machinery focused on providing 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 & 25% lower volume
• Pump can be configured for single 1150HP or dual motor 2300HP.

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

OPTIONAL FEATURES
• Encoder
• ABS Certification
• 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
• Water cooling
• ATEX Certification

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MOTOR CHARACTERISTICS

![Motor Torque (ft-lbs) vs Speed (RPM) Graph]

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>Volts</th>
<th>580 Vrms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Current</td>
<td>900 Amps</td>
</tr>
<tr>
<td>Rated Power</td>
<td>1150 HP</td>
</tr>
<tr>
<td>Speed at rated HP</td>
<td>540 rpm</td>
</tr>
<tr>
<td>Torque</td>
<td>11,185 ft lbs</td>
</tr>
<tr>
<td>Approximate Weight</td>
<td>7700 lbs</td>
</tr>
<tr>
<td>Frequency at Rated Speed</td>
<td>81 Hz</td>
</tr>
<tr>
<td>Efficiency at Rated</td>
<td>97.9 %</td>
</tr>
</tbody>
</table>

MOTOR DIMENSIONS

![Motor Dimensions Diagram]

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