SIMOTICS™ BAC1150

Drill Rig Duty Motors
At Home in the field

Siemens understands — your production numbers define your success. And there’s never any time for downtime. When you choose a partner to supply motors for your land rigs, you are making a decision that you will have to live with for years. There’s no better choice than SIMOTICS™. Proven. Versatile. Strong. And simple to maintain. Everything you expect in a drill rig motor is precisely what Siemens delivers.

Every motor comes with over 150 years of motor design and manufacturing experience built right in — a pedigree unmatched by anyone. And our global service coverage including parts and technical support is the most extensive in the world — providing an exceptional level of confidence and unrivaled peace of mind.
**SIMOTICS™ BAC1150** is an exceptional solution for drilling applications—designed specifically for Mud Pumps, Drawworks, and Rotary Tables.

The rugged design is developed to withstand the high torque and extreme conditions encountered in drilling applications. The superior cooling system, with double end to center air flow design, results in lower overall motor temperatures. Design innovations like these allow the SIMOTICS™ BAC1150 motor to perform with maximum reliability for years of trouble-free service, delivering optimal rig performance, and supporting rapid well drilling.

Siemens AC drilling motors help ensure rig operations consistently achieve maximum efficiency, while delivering the peace of mind that comes from reliable operations. Confidently drill deeper, faster, and longer while reducing operating costs with SIMOTICS™ BAC1150.

**Standard Features**
- Form Wound Class H MiCLAD™ Insulation with Kapton
- Double end to center cooling system for superior cooling
- Induction brazed copper bar rotor
- Stator RTDs (9) – 100 Ohm Platinum 3 / Phase with spares
- IP23 Enclosure
- Siemens ID1 auxiliary blower assembly with mechanical filter
- Auxiliary lockout switch
- Field movable IP56 main terminal box (A to B side) with bus bar connections
- Fabricated steel frame with fabricated steel end shields
- Tapered 4340 steel shaft with IP56 Seal and hub
- 304 stainless steel hardware
- Ambient range -40°C to 45°C
- Differential Pressure Switch
- Space Heater

**Optional Features**
- Both bearings insulated with ground strap
- IP44 Enclosure
- Stainless steel main terminal box
- Extreme / Harsh Duty paint and custom colors
- Class 1, Div 2, groups BCD, T3
- Class 1, Zone 2, groups IIA, IIB + Hydrogen
- Up to 55°C Ambient
- “C” face encoder

---

**BAC1150 Drill Motor Performance Curves**

---

**Continuous Rating Drawworks Duty Cycle**

<table>
<thead>
<tr>
<th></th>
<th>Continuous Rating</th>
<th>Drawworks Duty Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP (kW)</td>
<td>1150 (858)</td>
<td>1400 (1044)</td>
</tr>
<tr>
<td>Torque, lb-ft (Nm)</td>
<td>7550 (10240)</td>
<td>9191 (12461)</td>
</tr>
<tr>
<td>Volts, VAC*</td>
<td>587</td>
<td>587</td>
</tr>
<tr>
<td>Current, Amps</td>
<td>1054</td>
<td>1271</td>
</tr>
<tr>
<td>Synchronous Speed, rpm</td>
<td>800</td>
<td>800</td>
</tr>
<tr>
<td>Max speed, rpm</td>
<td>3000</td>
<td></td>
</tr>
</tbody>
</table>

*575 - 690V is available

---

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.

---

Siemens Industry, Inc.
3333 Old Milton Parkway
Alpharetta, GA 30005
1-800-241-4453
info.us@siemens.com

usa.siemens.com/motors