Key Features

- Low inertia composite rotor with excellent rotor dynamic stability
- Compact design with flat front & back faces for mounting
- Through shaft and customised versions available
- Low inertia composite rotor with excellent rotor dynamic stability
- Very high torque and power density
- Low cogging torque
- Power density of >10kW/Kg achievable
- Voltage: Up to 800 VDC
- Peak Efficiency: >96% *(includes power inverter)*
- Water / glycol cooled for simplified installation & enhanced performance.
- Integrated PT100 temperature sensors and sin/cos resolver compatible with most commercially available inverters

Specifications at 600 VDC

<table>
<thead>
<tr>
<th>PM Synchronous Axial Flux Motors</th>
<th>AF 130</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Speed (rpm)</td>
<td>8000</td>
</tr>
<tr>
<td>Nominal Torque (Nm)</td>
<td>145</td>
</tr>
<tr>
<td>Peak Torque - for up to 60s (Nm)</td>
<td>250</td>
</tr>
<tr>
<td>Peak Torque - for up to 20s (Nm)</td>
<td>350</td>
</tr>
<tr>
<td>Nominal Output Power (kW)</td>
<td>64</td>
</tr>
<tr>
<td>Peak Output Power - for up to 60s (kW)</td>
<td>100</td>
</tr>
<tr>
<td>Peak Output Power - for up to 20s (kW)</td>
<td>140</td>
</tr>
<tr>
<td>Coolant Flow Rate (litre/min)</td>
<td>8</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>110</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>300</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>30.5</td>
</tr>
</tbody>
</table>
Torque Vs Speed (AF130 4 Turn - Rated & Peak)

- 600 Vdc - Rated
- 600 Vdc - Peak
- 480 Vdc - Rated
- 480 Vdc - Peak
- 360 Vdc - Rated
- 360 Vdc - Peak
- 320 Vdc - Rated
- 320 Vdc - Peak

Power Vs Speed (AF130 4 Turn - Rated & Peak)

- 600 Vdc - Rated
- 600 Vdc - Peak
- 480 Vdc - Rated
- 480 Vdc - Peak
- 360 Vdc - Rated
- 360 Vdc - Peak
- 320 Vdc - Rated
- 320 Vdc - Peak

Fig 1 & 2 AF130 4 Turns @ 45 deg C Amb & 55 deg C inlet coolant temp
Torque Vs Speed (AF130 6 Turn - Rated & Peak)

Power Vs Speed (AF130 6 Turn - Rated & Peak)

Fig 1 & 2 AF130 4 Turns @ 45 deg C Amb & 55 deg C inlet coolant temp

Dimensions and specifications are subject to change and are for indication only.

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