Manufacturer’s statement
ACS880-01 and High output SynRM motor package efficiency

Drive: ACS880-01-293A-3
Motor: M3BL 250SMC, 3GBL252002-ASB, \( P_n \) 125 kW, 3000 rpm

<table>
<thead>
<tr>
<th>Speed</th>
<th>Speed rpm</th>
<th>( \frac{P}{P_n} )</th>
<th>Package efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 %**</td>
<td>1500</td>
<td>13 %**</td>
<td>86.6 %</td>
</tr>
<tr>
<td>63 %</td>
<td>1890</td>
<td>25 %</td>
<td>89.8 %</td>
</tr>
<tr>
<td>75 %</td>
<td>2250</td>
<td>42 %</td>
<td>91.6 %</td>
</tr>
<tr>
<td>80 %</td>
<td>2400</td>
<td>51 %</td>
<td>92.1 %</td>
</tr>
<tr>
<td>91 %</td>
<td>2730</td>
<td>75 %</td>
<td>93.0 %</td>
</tr>
<tr>
<td>100 %**</td>
<td>3000</td>
<td>100 %**</td>
<td>93.4 %*</td>
</tr>
</tbody>
</table>

*Estimated tolerance according to IEC 60034-1:

\( \leq 150kW: 0.15 \times (100 - \text{package efficiency} \%) \) at the nominal point

\( > 150kW: 0.10 \times (100 - \text{package efficiency} \%) \) at the nominal point

**Measurement points according to EN 50598-2 (will be published 2014)
Package efficiency [%] for applications with other load characteristics:

Points of measurement

Efficiency $\eta = \frac{P_2}{P_1}$

Efficiency measurements were made at:

<p>| | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ABB verification laboratory, Vaasa</td>
<td>X</td>
<td>ABB verification laboratory, Västerås</td>
</tr>
<tr>
<td>ABB verification laboratory, Helsinki</td>
<td></td>
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</tbody>
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