DS2 100–200 —
The powerful all-rounder

Higher speeds for shorter cycle times and more productivity

By increasing the nominal speed range, the maximum torque is available over a wider speed adjustment range. This improves the acceleration properties even further, shortens cycle times and therefore boosts the machine’s productivity. The use of fluid cooling results in an extremely compact structure and reduces noise emissions considerably. The servo motor is ideal for all applications with the highest demands in terms of energy efficiency, for example in:

- Servo pump drives
- Injection molding machines
- Forming machines
- Printing machines
- Textile machines
DS2 100–200 — General Purpose (synchronous)

- Perfect acceleration characteristics
- High power density
- Excellent smooth running characteristics
- High variability thanks to modular system
- High level of efficiency
- Permanent field servo motors
- Unventilated IP54, ventilated IP23, IP54
- Water-cooled IP54
- Encoders: resolver, SinCos (optional)
- Optionally with brake

DS motors are available as air- and water-cooled model.

Technical data

<table>
<thead>
<tr>
<th>Typ</th>
<th>DS2–100</th>
<th>DS2–132</th>
<th>DS2–160</th>
<th>DS2–200</th>
</tr>
</thead>
<tbody>
<tr>
<td>( n_{\text{Max}} ) [ min^{-1} ]</td>
<td>5000</td>
<td>5000</td>
<td>4500</td>
<td>4000</td>
</tr>
<tr>
<td>( n_n ) [ min^{-1} ]</td>
<td>4500</td>
<td>4500</td>
<td>4000</td>
<td>3500</td>
</tr>
<tr>
<td>J [ kgm^2 ]</td>
<td>0.01–0.022</td>
<td>0.045–0.084</td>
<td>0.15–0.25</td>
<td>0.44–0.79</td>
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<tr>
<td>( M_0 ) [ Nm ]</td>
<td>48–165</td>
<td>130–375</td>
<td>320–695</td>
<td>570–1340</td>
</tr>
<tr>
<td>( M_{0\text{Max}} ) [ Nm ]</td>
<td>120–340</td>
<td>305–710</td>
<td>690–1210</td>
<td>1130–2190</td>
</tr>
</tbody>
</table>

Subject to alterations. The stated data are maximum values. For details please have a look in the technical documentations. *) preliminary data