DSH1 45–100 — High precision servo motors

Almost zero cogging

The DSH motors score with a not noticeable notch position and thereby reaches an extremely high control quality especially associated to the Baumüller drive engineering. The DSH is the best solution for a variety of applications having a speed up to 5000 min⁻¹ and an extremely low notch position:

- Robotics
- Label printing machines
- And many others
DSH1 45–100 — High precision servo motors

- Extremely low notch position
- Low torque ripple
- Compact size having a high power density
- Degree of protection to IP65
- Main connection via a rotatable connector or a terminal housing
- Excellent concentricity properties
- Smooth housing surface – not susceptible to dirt
- Uniform, slim-line type housing design
- Permanent magnet synchronous servo motors
- High overload capability
- Encoder: Resolver, SinCos (optional)
- All types can optionally be obtained with a brake

The DSH series is soon available in an uncooled version.

Technical data *

<table>
<thead>
<tr>
<th>Type</th>
<th>DSH1-045</th>
<th>DSH1-056</th>
<th>DSH1-071</th>
<th>DSH1-100</th>
</tr>
</thead>
<tbody>
<tr>
<td>( P_n ) [kW]</td>
<td>0.5–1.2</td>
<td>0.6–2.7</td>
<td>1.1–5.6</td>
<td>2.1–9.2</td>
</tr>
<tr>
<td>( n ) [min (^{-1})]</td>
<td>1000–5000</td>
<td>1000–5000</td>
<td>1000–4000</td>
<td>1000–3000</td>
</tr>
<tr>
<td>( J ) [kgcm(^2)]</td>
<td>1.4–3.2</td>
<td>4.4–11</td>
<td>12.6–31</td>
<td>46–101</td>
</tr>
<tr>
<td>( M_0 ) [Nm]</td>
<td>2.4–5.8</td>
<td>5.6–13</td>
<td>10.7–25.8</td>
<td>20.6–54.8</td>
</tr>
<tr>
<td>( M_{\text{MAX}} ) [Nm]</td>
<td>7.7–24</td>
<td>14–43</td>
<td>24–74</td>
<td>38–122</td>
</tr>
</tbody>
</table>

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

*) in preparation, preliminary data

11/2016

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