Spur Gearheads
Zero Backlash

Series 12/5

<table>
<thead>
<tr>
<th>Housing material</th>
<th>metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geartrain material</td>
<td>metal</td>
</tr>
</tbody>
</table>

Recommended max. input speed for:
- continuous operation 5 000 min⁻¹
- Backlash, at no-load 0 °

Bearings on output shaft
- radial (4,5 mm from mounting face) ≤ 5 N
- axial ≤ 5 N

Shaft load, max.:
- radial (4,5 mm from mounting face) ≤ 0.04 mm
- axial = 0 mm

Shaft play

Operating temperature range -30 ... +100 °C

Technical data

<table>
<thead>
<tr>
<th>Number of gear stages</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous torque mNm</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Intermittent torque mNm</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Mass without motor, g</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Efficiency, max.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Direction of rotation, drive to output</td>
<td>≠</td>
<td>≠</td>
<td>≠</td>
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</tr>
</tbody>
</table>

Reduction ratio ¹)

L2 [mm] = length without motor 18,7 20,8 22,9 25,0 27,1
L1 [mm] = length with motor 1016E...SR 34,6 36,7 38,8 40,9 43,0
1024E...SR 42,6 44,7 46,8 48,9 51,0
1224E...SR 42,9 45,0 47,1 49,2 51,3
1028E...B 46,8 48,9 51,0 53,1 55,2
1218E...B 36,7 38,8 40,9 43,0 45,1
1226E...B 44,7 46,8 48,9 51,0 53,1
AM1020...10 34,6 36,7 38,8 40,9 43,0
DM1220...57 36,1 38,2 40,3 42,4 44,5

¹) The reduction ratios are rounded, the exact values are available on request or at www.faulhaber.com.

Note: These gearheads are available only with motors mounted.

For more combinations see table. Example of combination with 1224...SR.

Orientation with respect to motor terminals not defined

For notes on technical data and lifetime performance refer to "Technical Information".
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