Planetary Gearheads

10 Nm

For combination with
DC-Micromotors
Brushless DC-Motors

Series 38/1 S

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

Recommended max. input speed for:

- continuous operation: 4 000 min⁻¹

Backlash, at no-load:

- radial (10 mm from mounting face): ≤ 1 °
- axial: ≤ 300 N

Bearings on output shaft:

- ball bearings, preloaded

Shaft load, max.:

- radial (10 mm from mounting face): ≤ 300 N
- axial: ≤ 350 N

Shaft play:

- radial (10 mm from mounting face): ≤ 0,03 mm
- axial: ≤ 0,15 mm

Operating temperature range:

-20 ... +125 °C

Technical data

<table>
<thead>
<tr>
<th>Number of gear stages</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous torque Nm</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Intermittent torque Nm</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Mass without motor g</td>
<td>215</td>
<td>268</td>
<td>320</td>
<td>375</td>
</tr>
<tr>
<td>Efficiency max. %</td>
<td>80</td>
<td>70</td>
<td>60</td>
<td>55</td>
</tr>
<tr>
<td>Reduction ratio (rounded)</td>
<td>14:1</td>
<td>43:1</td>
<td>134:1</td>
<td>415:1</td>
</tr>
<tr>
<td></td>
<td>66:1</td>
<td>159:1</td>
<td>592:1</td>
<td>989:1</td>
</tr>
<tr>
<td></td>
<td>246:1</td>
<td>1526:1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

L2 [mm] = length without motor:

- 3242G...CR: 40,1
- 3257G...CR: 96,3
- 3863A...CR: 99,1
- 3890A...CR: 125,1
- 3056K...B: 96,1
- 3242G...BX4: 83,5
- 3268G...BX4: 109,5
- 3274G...BP4: 114,1
- 3564K...B: 104,1

L1 [mm] = length with motor:

- 3242G...CR: 81,3
- 3257G...CR: 111,3
- 3863A...CR: 109,5
- 3890A...CR: 114,1
- 3056K...B: 96,1
- 3242G...BX4: 83,5
- 3268G...BX4: 109,5
- 3274G...BP4: 114,1
- 3564K...B: 104,1

Scale reduced

For more combinations see table.
Example of combination with 3863A...CR.

Note: The gearheads as S-type have all steel gears and heavy duty lubricant for extended lifetime performance.

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

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