Spur Gearheads
Zero Backlash

0,1 Nm
For combination with
DC-Micromotors
Stepper Motors

Series 22/5

<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 4 000 min⁻¹
Backlash, at no-load 0 °
Bearings on output shaft ball bearings, preloaded
Shaft load, max.:
  - radial (6 mm from mounting face) ≤ 100 N
  - axial ≤ 5 N
Shaft press fit force, max. ≤ 5 N
Shaft play:
  - radial (6 mm from mounting face) ≤ 0,03 mm
  - axial = 0 mm
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>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Intermittent torque mNm</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Mass without motor, g</td>
<td>80</td>
<td>85</td>
<td>90</td>
<td>95</td>
<td>105</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>
<td>≠</td>
<td>≠</td>
</tr>
<tr>
<td>Reduction ratio 1) (rounded)</td>
<td>69,2:1</td>
<td>161:1</td>
<td>377:1</td>
<td>879:1</td>
<td>2 050:1</td>
</tr>
</tbody>
</table>

L2 [mm] = length without motor
L1 [mm] = length with motor

Orientation with respect to motor terminals not defined

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 2233...S.

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