

Planetary Gearheads

7 Nm

For combination with
DC-Micromotors
Brushless DC-Motors

Series 32/3 S

| | 32/3 S |
|-------------------------------------|--------------------------|
| Housing material | metal |
| Geartrain material | steel |
| Recommended max. input speed for: | |
| – continuous operation | 4 000 rpm |
| Backlash, at no-load | ≤ 1 ° |
| Bearings on output shaft | ball bearings, preloaded |
| Shaft load, max.: | |
| – radial (10 mm from mounting face) | ≤ 200 N |
| – axial | ≤ 200 N |
| Shaft press fit force, max. | ≤ 250 N |
| Shaft play | |
| – radial (10 mm from mounting face) | ≤ 0,03 mm |
| – axial | ≤ 0,15 mm |
| Operating temperature range | - 20 ... + 125 °C |

Specifications

| | 2 | 3 | 4 | 5 | 5 |
|--|--------------|----------------------|-------------------------|-------------------------|---------|
| Number of gear stages | | | | | |
| Continuous torque | Nm 7 | 7 | 7 | 7 | 7 |
| Intermittent torque | Nm 10 | 10 | 10 | 10 | 10 |
| Mass without motor, ca. | g 190 | 230 | 260 | 290 | 300 |
| Efficiency, max. | % 80 | 70 | 60 | 55 | 55 |
| Direction of rotation, drive to output | = | = | = | = | = |
| Reduction ratio ¹⁾ (rounded) | 14:1 23:1 | 43:1 66:1 86:1 | 134:1 159:1 246:1 | 415:1 592:1 989:1 | 1 526:1 |
| L2 [mm] = length without motor | 41,6 | 49,4 | 57,2 | 65,0 | 65,0 |
| L1 [mm] = length with motor | | | | | |
| 3242G...CR | 83,6 | 91,4 | 99,2 | 107,0 | 107,0 |
| 3257G...CR | 98,6 | 106,4 | 114,2 | 122,0 | 122,0 |
| 3272G...CR | 113,6 | 121,4 | 129,2 | 137,0 | 137,0 |
| 3242G...BX4 | 85,8 | 93,6 | 101,4 | 109,2 | 109,2 |
| 3268G...BX4 | 111,8 | 119,6 | 127,4 | 135,2 | 135,2 |
| 3564K...B | 105,6 | 113,4 | 121,2 | 129,0 | 129,0 |

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

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

