

# Planetary Gearheads

7 Nm

For combination with  
DC-Micromotors  
Brushless DC-Motors

## Series 32/3

|                                     | 32/3                     |
|-------------------------------------|--------------------------|
| Housing material                    | metal                    |
| Geartrain material <sup>1)</sup>    | plastic/steel            |
| Recommended max. input speed for:   |                          |
| – continuous operation              | 4 000 min <sup>-1</sup>  |
| 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        |

### Technical data

|   | 1      | 2     | 3     | 3     | 4     | 4     | 4     | 5                       | 5       |
|---|--------|-------|-------|-------|-------|-------|-------|-------------------------|---------|
| Number of gear stages                   |        |       |       |       |       |       |       |                         |         |
| Continuous torque Nm                    | 4,2    | 0,4   | 1,4   | 2     | 4     | 4,9   | 5,8   | 7                       | 7       |
| Intermittent torque Nm                  | 5,3    | 0,6   | 1,9   | 2,6   | 5,2   | 6,5   | 8     | 10                      | 10      |
| Mass without motor, ca. g               | 160    | 190   | 230   | 230   | 260   | 260   | 260   | 290                     | 300     |
| Efficiency, max. %                      | 88     | 80    | 70    | 70    | 60    | 60    | 60    | 55                      | 55      |
| Direction of rotation, drive to output  | =      | =     | =     | =     | =     | =     | =     | =                       | =       |
| Reduction ratio <sup>2)</sup> (rounded) | 3,71:1 | 14:1  | 43:1  | 66:1  | 134:1 | 159:1 | 246:1 | 415:1<br>592:1<br>989:1 | 1 526:1 |
| L2 [mm] = length without motor          | 33,9   | 41,6  | 49,4  | 49,4  | 57,2  | 57,2  | 57,2  | 65,0                    | 65,0    |
| L1 [mm] = length with motor             |        |       |       |       |       |       |       |                         |         |
| 2668W...CR                              | 101,9  | 109,6 | 117,4 | 117,4 | 125,2 | 125,2 | 125,2 | 133,0                   | 133,0   |
| 3242G...CR                              | 75,9   | 83,6  | 91,4  | 91,4  | 99,2  | 99,2  | 99,2  | 107,0                   | 107,0   |
| 3257G...CR                              | 90,9   | 98,6  | 106,4 | 106,4 | 114,2 | 114,2 | 114,2 | 122,0                   | 122,0   |
| 3272G...CR                              | 105,9  | 113,6 | 121,4 | 121,4 | 129,2 | 129,2 | 129,2 | 137,0                   | 137,0   |
| 3242G...BX4                             | 78,1   | 85,8  | 93,6  | 93,6  | 101,4 | 101,4 | 101,4 | 109,2                   | 109,2   |
| 3268G...BX4                             | 104,1  | 111,8 | 119,6 | 119,6 | 127,4 | 127,4 | 127,4 | 135,2                   | 135,2   |
| 3274G...BP4                             | 107,9  | 115,6 | 123,4 | 123,4 | 131,2 | 131,2 | 131,2 | 139,0                   | 139,0   |
| 3564K...B                               | 97,9   | 105,6 | 113,4 | 113,4 | 121,2 | 121,2 | 121,2 | 129,0                   | 129,0   |

<sup>1)</sup> Gearheads with ratios < 14:1 have all steel gears.

<sup>2)</sup> The reduction ratios are rounded, the exact values are available on request or at [www.faulhaber.com](http://www.faulhaber.com).

