

# Planetary Gearheads

## 25 mNm

For combination with  
DC-Micromotors  
Brushless DC-Motors  
Stepper Motors

### Series 06/1

|                                      | 06/1                    | 06/1K                   |
|--------------------------------------|-------------------------|-------------------------|
| Housing material                     | steel                   | steel                   |
| Geartrain material                   | steel                   | steel                   |
| Recommended max. input speed for:    |                         |                         |
| – continuous operation               | 8 000 min <sup>-1</sup> | 8 000 min <sup>-1</sup> |
| Backlash, at no-load                 | ≤ 3 °                   | ≤ 3 °                   |
| Bearings on output shaft             | sintered bearings       | ball bearings           |
| Shaft load, max.:                    |                         |                         |
| – radial (3,5 mm from mounting face) | ≤ 0,5 N                 | ≤ 5 N                   |
| – axial                              | ≤ 0,5 N                 | ≤ 3 N                   |
| Shaft press fit force, max.          | ≤ 3,5 N                 | ≤ 5 N                   |
| Shaft play                           |                         |                         |
| – radial (3,5 mm from mounting face) | ≤ 0,06 mm               | ≤ 0,06 mm               |
| – axial                              | ≤ 0,1 mm                | ≤ 0,05 mm               |
| Operating temperature range          | - 30 ... + 100 °C       | - 30 ... + 100 °C       |

| Technical data                         |             |      |      |      |       |         |         |
|--|-------------|------|------|------|-------|---------|---------|
| Number of gear stages                  |             | 1    | 2    | 3    | 4     | 5       | 6       |
| Continuous torque                      | mNm         | 25   | 25   | 25   | 25    | 25      | 25      |
| Intermittent torque                    | mNm         | 35   | 35   | 35   | 35    | 35      | 35      |
| Mass without motor, ca.                | g           | 2    | 2,8  | 3,4  | 4     | 4,4     | 5       |
| Efficiency, max.                       | %           | 90   | 80   | 70   | 60    | 55      | 48      |
| Direction of rotation, drive to output |             | =    | =    | =    | =     | =       | =       |
| Reduction ratio (exact)                |             | 4:1  | 16:1 | 64:1 | 256:1 | 1 024:1 | 4 096:1 |
| L2 [mm] = length without motor         |             | 9,2  | 11,9 | 14,6 | 17,3  | 20,0    | 22,7    |
| L1 [mm] = length with motor            | 0615C...S   | 24,2 | 26,9 | 29,6 | 32,3  | 35,0    | 37,7    |
|  | 0515C...B   | 23,8 | 26,5 | 29,2 | 31,9  | 34,6    | 37,3    |
|  | 0620C...B   | 29,2 | 31,9 | 34,6 | 37,3  | 40,0    | 42,7    |
|  | DM0620...35 | 18,7 | 21,4 | 24,1 | 26,8  | 29,5    | 32,2    |

