

# Planetary Gearheads

## 25 mNm

For combination with (overview on page 14-15)  
 DC-Micromotors:  
 0615  
 Brushless DC-Servomotors:  
 0620

### Series 06/1

|                                   | 06/1                                | 06/1 K                            |
|-----------------------------------|-------------------------------------|-----------------------------------|
| Housing material                  | steel                               | steel                             |
| Geartrain material                | steel                               | steel                             |
| Recommended max. input speed for: |                                     |                                   |
| – for continuous operation        | 8 000 rpm                           | 8 000 rpm                         |
| Backlash, typical, at no-load     | ≤ 3°                                | ≤ 3°                              |
| Bearings on output shaft          | sintered sleeve bearings            | ball bearings                     |
| Shaft load, max.                  |                                     |                                   |
| – radial                          | ≤ 0,5 N (3,5 mm from mounting face) | ≤ 5 N (3,9 mm from mounting face) |
| – axial                           | ≤ 0,5 N                             | ≤ 3 N                             |
| Shaft press fit force, max.       | ≤ 3,5 N                             | ≤ 5 N                             |
| Shaft play (on bearing output):   |                                     |                                   |
| – radial                          | ≤ 0,03 mm                           | ≤ 0,02 mm                         |
| – axial                           | ≤ 0,1 mm                            | ≤ 0,05 mm                         |
| Operating temperature range       | – 30° ... + 100° C                  | – 30° ... + 100° C                |

### Specifications

| reduction ratio | weight without motor | length without motor | length with motor |          | output torque        |                        | direction of rotation (reversible) | efficiency |
|-----------------|----------------------|----------------------|-------------------|----------|----------------------|------------------------|------------------------------------|------------|
|                 |                      |                      | 0615 C            | 0620 C   | continuous operation | intermittent operation |                                    |            |
|                 | g                    | L2<br>mm             | L1<br>mm          | L1<br>mm | M max.<br>mNm        | M max.<br>mNm          |                                    | %          |
| 4 :1            | 2,0                  | 9,2                  | 24,2              | 29,2     | 25                   | 35                     | =                                  | 90         |
| 16 :1           | 2,8                  | 11,9                 | 26,9              | 31,9     | 25                   | 35                     | =                                  | 80         |
| 64 :1           | 3,4                  | 14,6                 | 29,6              | 34,6     | 25                   | 35                     | =                                  | 70         |
| 256 :1          | 4,0                  | 17,3                 | 32,3              | 37,3     | 25                   | 35                     | =                                  | 60         |
| 1 024 :1        | 4,4                  | 20,0                 | 35,0              | 40,0     | 25                   | 35                     | =                                  | 55         |
| 4 096 :1        | 5,0                  | 22,7                 | 37,7              | 42,7     | 25                   | 35                     | =                                  | 48         |

