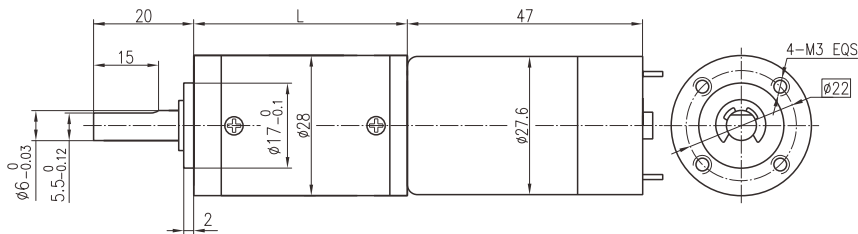


# 28JN30K/28ZY47

28mm OD Planetary Gearbox,  
Permissible Load Range: 0.3N.m~3.0N.m

## ● Dimensions



## ● Motor Technical Data

| Type        | Rated voltage VDC | No-load speed r/min | No-load current mA | Rated speed r/min | Rated torque mN.m | Output power W | Rated current mA | Stall torque mN.m | Stall current A |
|-------------|-------------------|---------------------|--------------------|-------------------|-------------------|----------------|------------------|-------------------|-----------------|
| 28ZY47-1260 | 12                | 6000                | 130                | 5200              | 7.7               | 4.2            | 500              | 23                | 1.5             |
| 28ZY47-2460 | 24                | 6000                | 80                 | 5140              | 9.2               | 5.0            | 300              | 28                | 0.9             |

## ● Gear Motor Technical Data

28ZY47-1260 DC Motor

| Reduction ratio                           | 3.7   | 5.2   | 14    | 19   | 27   | 35   | 51   | 71   | 100  | 139  | 189  | 264  | 369  | 495  | 596  |
|-------------------------------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| Number of gear trains                     | 1     | 1     | 2     | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    |
| Length(L) mm                              | 29.0  | 29.0  | 36.1  | 36.1 | 36.1 | 36.1 | 43.0 | 43.0 | 43.0 | 43.0 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 |
| No-load speed r/min                       | 1617  | 1158  | 429   | 316  | 222  | 171  | 118  | 85   | 60   | 43   | 32   | 23   | 16   | 12   | 10   |
| Rated speed r/min                         | 1402  | 1004  | 371   | 274  | 193  | 149  | 102  | 73   | 52   | 37   | 28   | 20   | 14   | 11   | 8.7  |
| Rated torque N.m                          | 0.026 | 0.036 | 0.087 | 0.12 | 0.17 | 0.22 | 0.29 | 0.40 | 0.56 | 0.78 | 0.95 | 1.3  | 1.8  | 2.5  | 3.0  |
| Max. permissible load in a short time N.m | 0.6   | 0.6   | 2.5   | 2.5  | 2.5  | 2.5  | 5.0  | 5.0  | 5.0  | 5.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  |

28ZY47-2460 DC Motor

| Reduction ratio                           | 3.7   | 5.2   | 14    | 19   | 27   | 35   | 51   | 71   | 100  | 139  | 189  | 264  | 369  | 495  | 596  |
|-------------------------------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| Number of gear trains                     | 1     | 1     | 2     | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    |
| Length(L) mm                              | 29.0  | 29.0  | 36.1  | 36.1 | 36.1 | 36.1 | 43.0 | 43.0 | 43.0 | 43.0 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 |
| No-load speed r/min                       | 1617  | 1158  | 429   | 316  | 222  | 171  | 118  | 85   | 60   | 43   | 32   | 23   | 16   | 12   | 10   |
| Rated speed r/min                         | 1385  | 992   | 367   | 271  | 190  | 147  | 101  | 72   | 51   | 37   | 27   | 19   | 14   | 10   | 8.6  |
| Rated torque N.m                          | 0.031 | 0.043 | 0.104 | 0.14 | 0.20 | 0.26 | 0.34 | 0.48 | 0.67 | 0.93 | 1.1  | 1.6  | 2.2  | 3.0  | 3.0  |
| Max. permissible load in a short time N.m | 0.6   | 0.6   | 2.5   | 2.5  | 2.5  | 2.5  | 5.0  | 5.0  | 5.0  | 5.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  |

## ● Motor Characteristic Figure

