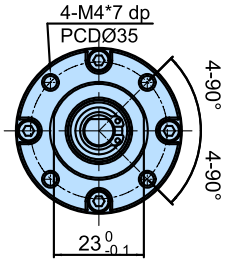
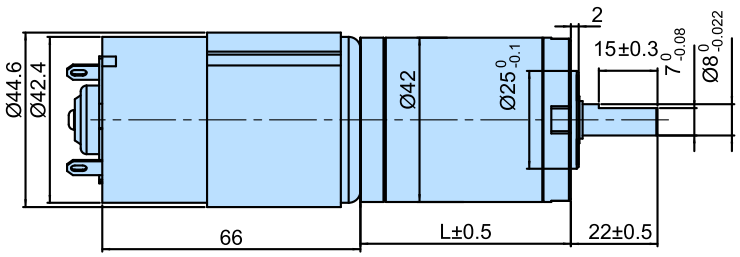
## PG42775

PG42 + DC775 | 4 windings | 14 reduction ratios






Dimensions in mm. Housing length L is listed in the ratio table.

### MOTOR SELECTION | DC775

| Winding | 124500 | 126000 | 244500 | 246000 |
|---|---|---|---|---|
| Voltage (V) | 12 | 12 | 24 | 24 |
| No-load speed (rpm) | 4500 | 6000 | 4500 | 6000 |
| Rated speed (rpm) | 3780 | 5195 | 3821 | 5233 |
| No-load current (mA) | 750 | 1400 | 400 | 650 |
| Rated current (mA) | 2200 | 3500 | 1200 | 1770 |
| Rated torque (gf.cm) | 420 | 478 | 538 | 574 |
| Rated power (W) | 16 | 24.9 | 20.5 | 30 |

Motor parameters measured at 20 °C ambient.

### RATIO SELECTION & PERFORMANCE | PG42

| Ratio :1 | Gear stages | Length L mm | Max. cont. torque kgf.cm | Breaking torque kgf.cm | Efficiency % | Assembly ref. weight g |
|---|---|---|---|---|---|---|
| 3.7 | 1 | 29 | 50 | 150 | 90 | 597 |
| 4.3 | 1 | 29 | 50 | 150 | 90 | 597 |
| 16 | 2 | 42.6 | 100 | 300 | 81 | 707 |
| 22 | 2 | 42.6 | 100 | 300 | 81 | 707 |
| 59 | 3 | 53.8 | 200 | 600 | 72 | 824 |
| 83 | 3 | 53.8 | 200 | 600 | 72 | 824 |
| 116 | 3 | 53.8 | 200 | 600 | 72 | 824 |
| 219 | 4 | 65.1 | 200 | 600 | 60 | 927 |
| 307 | 4 | 65.1 | 200 | 600 | 60 | 927 |
| 429 | 4 | 65.1 | 200 | 600 | 60 | 927 |
| 600 | 4 | 65.1 | 200 | 600 | 60 | 927 |
| 813 | 5 | 76.4 | 200 | 600 | 50 | 1047 |
| 1137 | 5 | 76.4 | 200 | 600 | 50 | 1047 |
| 1590 | 5 | 76.4 | 200 | 600 | 50 | 1047 |

Reference assembly weight includes the gearbox and DC775 motor (347 g).

# PG42775 | MECHANICAL DATA & CONFIGURATION

## MOTOR | MECHANICAL DATA & MATERIALS

| | |
|---|---|
| Motor diameter / body length | 45 mm / 66 mm |
| Motor reference weight | 347 g |
| Housing material | Zinc-plated steel |
| Winding material | Enameled copper wire |
| Magnet material | Ferrite |
| Brush material | Metal graphite |
| Insulation class / pole pairs | UEW / 2 |
| Working lifespan | 800 hours |

## GEARBOX | MECHANICAL DATA & MATERIALS

| | |
|---|---|
| Gearbox diameter | 42 mm |
| Output shaft diameter / extension | 8 mm / 22 mm |
| Housing material | Powder Metallurgy (Fe) |
| Gear material | Powder Metallurgy (Fe) / Plastics |
| Gear design | Helical Gear / Spur Gear |
| Output shaft bearing | Ball Bearing |
| Lubricant | Graphene oil |
| Gear module | 0.6 |
| Axial play | ≤ 0.2 mm |
| Radial play | ≤ 0.1 mm |
| Backlash | ≤ 1.5° |
| Operating temperature | -30 ~ 65 °C |

## CONFIGURATION OPTIONS

| Module | Model | + L (mm) |
|---|---|---|
| Encoder | ME-775 | 26.8 |

+ L = additional axial length with encoder fitted.