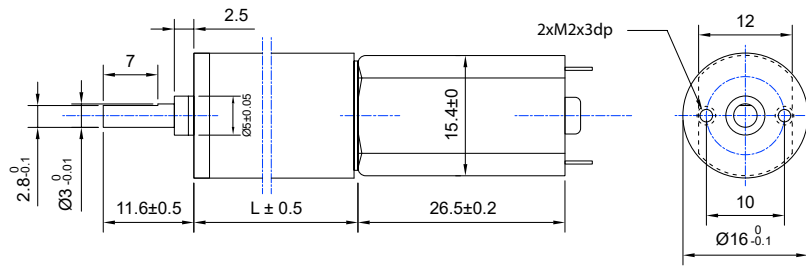


PD1626 / Ø 16mm / 0.4W / 1W

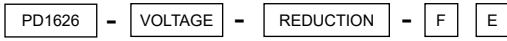
DRAWING (mm)



PHOTO



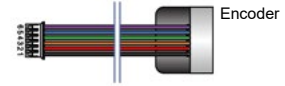
MODEL NO. DESIGNATION



Example: PD1626-12-4-FE

F = EMC Filter
E = Encoder

ADDITIONAL



GEAR MOTOR DATA

| Reduction | 4:1 | 14:1 | 19:1 | 29:1 | 62:1 | 72:1 | 84:1 | 104:1 | 128:1 | 157:1 | 231:1 | 316:1 | 370:1 | 455:1 | 561:1 | 690:1 | 1014:1 | 1621:1 | 1996:1 | 3027:1 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| Nominal torque 12 V (mNm) * | 2.1 | 5.9 | 8 | 11.8 | 21.6 | 25.5 | 29.4 | 37.3 | 45.1 | 53.9 | 68.6 | 93.2 | 108 | 132 | 167 | 196 | 243 | 235 | 235 | 235 |
| Nominal speed 12 V (rpm) * | 1330 | 430 | 315 | 205 | 100 | 85 | 73 | 59 | 48 | 39 | 26 | 19 | 16 | 13.5 | 11 | 8.9 | 6 | 3.8 | 3.2 | 2.3 |
| Nominal torque 24 V (mNm) * | 3.0 | 8.3 | 11.8 | 17.7 | 32.4 | 37.3 | 44.1 | 54.9 | 67.7 | 83.4 | 98.1 | 137 | 157 | 196 | 196 | 235 | 235 | 235 | 235 | 235 |
| Nominal speed 24 V (rpm) * | 2400 | 760 | 669 | 365 | 170 | 150 | 130 | 105 | 85 | 69 | 47 | 34 | 29 | 24 | 19.5 | 15.9 | 11 | 7.2 | 6.1 | 4.1 |
| Length (mm) | 41.55 | 45.20 | 45.20 | 45.20 | 48.85 | 48.85 | 48.85 | 48.85 | 48.85 | 48.85 | 52.50 | 52.50 | 52.50 | 52.50 | 52.50 | 52.50 | 56.15 | 56.15 | 56.15 | 56.15 |
| Weight (g) | 37 | 41 | 41 | 41 | 45 | 45 | 45 | 45 | 45 | 45 | 49 | 49 | 49 | 49 | 49 | 49 | 53 | 53 | 53 | 53 |

* Nominal speed and nominal torque have a tolerance of $\pm 15\%$

GEAR HEAD DATA

| Reduction | 4:1 | 14:1 | 19:1 | 29:1 | 62:1 | 72:1 | 84:1 | 104:1 | 128:1 | 157:1 | 231:1 | 316:1 | 370:1 | 455:1 | 561:1 | 690:1 | 1014:1 | 1621:1 | 1996:1 | 3027:1 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| Max. continuous torque (mNm) | 78.5 | 118 | 118 | 118 | 157 | 157 | 157 | 157 | 157 | 157 | 196 | 196 | 196 | 196 | 196 | 196 | 235 | 235 | 235 | 235 |
| Intermittently permissible torque (mNm) | 235 | 353 | 353 | 353 | 471 | 471 | 471 | 471 | 471 | 471 | 588 | 588 | 588 | 588 | 588 | 588 | 706 | 706 | 706 | 706 |
| Efficiency % | 80 | 70 | 70 | 70 | 60 | 60 | 60 | 60 | 60 | 60 | 50 | 50 | 50 | 50 | 50 | 50 | 40 | 40 | 40 | 40 |
| Length L (mm) | 15.05 | 18.70 | 18.70 | 18.70 | 22.35 | 22.35 | 22.35 | 22.35 | 22.35 | 22.35 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 29.65 | 29.65 | 29.65 | 29.65 |
| Weight (g) | 19 | 23 | 23 | 23 | 27 | 27 | 27 | 27 | 27 | 27 | 31 | 31 | 31 | 31 | 31 | 31 | 35 | 35 | 35 | 35 |

GEAR MOTOR FEATURES AND STANDARD DATA

| | STANDARD | CUSTOMIZATION OPTIONS |
|------------------------------------|---------------------------------------|--|
| Type | Planetary brush dc gear motor | |
| Motor type | Iron core, brush commutation | Winding parameters |
| Motor brush type | Carbon brushes | |
| Motor terminals | Soldering ears | Wiring harnesses, cables and connectors |
| EMC filter | Yes | |
| Gears | Straight teeth metal gears | Plastic |
| Motor pinion gear | Bakelite | Metal |
| Bearing | Sleeve bearing | |
| Shaft | Hardened stainless steel | Dimensions |
| Encoder option | Magnetic encoder (to order as option) | Through shaft dimensions and screw holes |
| Operating temperature | -10...+60 °C | -40...+60 °C |
| Backlash no load | $\leq 3^\circ$ | |
| Radial load 10 mm from gear flange | ≤ 4.9 N | |
| Shaft axial load | ≤ 4.9 N | |
| Shaft press fit force | ≤ 14.7 N | |
| Radial play | ≤ 0.08 mm | |
| Thrust play | ≤ 0.2 mm | |
| Manufacturing quality standards | ISO 9001 | |
| RoHS compliance | Yes | |
| CE label | Yes | Yes |

MOTOR DATA

| | | |
|----------------------|-----------|-----------|
| Nominal voltage (V) | 12 | 24 |
| No load speed (rpm) | 8000 | 13500 |
| No load current (mA) | ≤ 50 | ≤ 50 |
| Nominal speed (rpm) | 6200 | 11000 |
| Nominal torque (mNm) | 0.6 | 0.9 |
| Nominal current (mA) | ≤ 85 | ≤ 90 |
| Stall torque (mNm) | 2.6 | 4.3 |
| Starting current (A) | 0.20 | 0.28 |
| Output (W) | 0.4 | 1 |
| Length (mm) | 26.5 | 26.5 |
| Weight (g) | 18 | 18 |