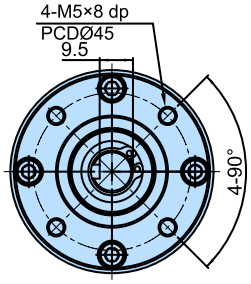
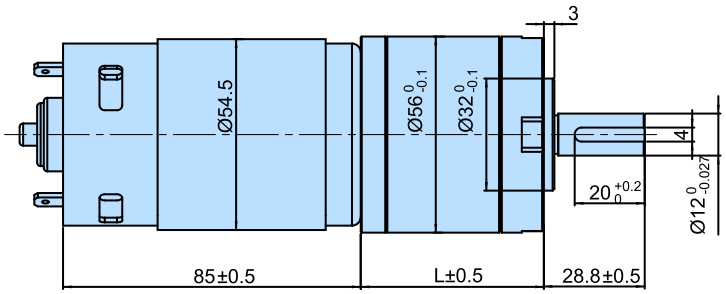
PG56997

PG56 + DC997 | 4 windings | 14 reduction ratios







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

MOTOR SELECTION | DC997

Winding	124500	126000	244500	246000
Voltage (V)	12	12	24	24
No-load speed (rpm)	4500	6000	4500	6000
Rated speed (rpm)	4180	5400	4200	5165
No-load current (mA)	1350	1850	850	1250
Rated current (mA)	5400	7500	2800	4960
Rated torque (gf.cm)	1168	1200	1197	1699
Rated power (W)	48.8	64.8	50.2	86

Motor parameters measured at 20 °C ambient.

RATIO SELECTION & PERFORMANCE | PG56

Ratio :1	Gear stages	Length L mm	Max. cont. torque kgf.cm	Breaking torque kgf.cm	Efficiency %	Assembly ref. weight g
3.7	1	38.2	100	300	90	1106
5.1	1	38.2	100	300	90	1106
19	2	52.1	100	300	81	1305
27	2	52.1	100	300	81	1305
71	3	68.3	400	1200	72	1497
99	3	68.3	400	1200	72	1497
138	3	68.3	400	1200	72	1497
262	4	84.5	400	1200	60	1687
366	4	84.5	400	1200	60	1687
512	4	84.5	400	1200	60	1687
716	4	84.5	400	1200	60	1687
970	5	100.7	400	1200	50	1901
1356	5	100.7	400	1200	50	1901
1896	5	100.7	400	1200	50	1901

Reference assembly weight includes the gearbox and DC997 motor (675 g).

PG56997 | MECHANICAL DATA & MATERIALS

MOTOR | MECHANICAL DATA & MATERIALS

Motor diameter / body length	54.5 mm / 85 mm
Motor reference weight	675 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	1000 hours

GEARBOX | MECHANICAL DATA & MATERIALS

Gearbox diameter	56 mm
Output shaft diameter / extension	12 mm / 28.8 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	0.8
Axial play	≤ 0.2 mm
Radial play	≤ 0.1 mm
Backlash	≤ 1.5°
Operating temperature	-30 ~ 65 °C