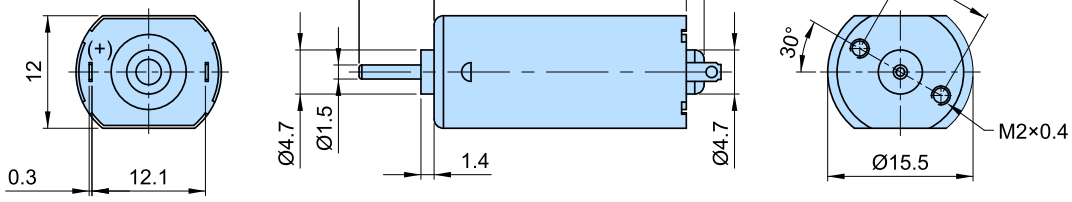
DC050

12 / 24 V · 9000 - 13000 rpm · 3 windings





Dimensions in mm. Standard drawing shown; confirm custom shaft variants separately.

ELECTRICAL PERFORMANCE | STANDARD WINDINGS

Parameter	Unit	DC050-129000	DC050-1212000	DC050-2413000
Rated voltage	V	12	12	24
No-load speed	rpm	9000	12000	13000
Rated speed	rpm	7000	9600	10000
No-load current	mA	45	55	45
Rated current	mA	140	180	110
Stall current	mA	500	750	400
Rated torque	gf.cm	8	10	12
Stall torque	gf.cm	45	50	49
Rated output power	W	0.5	0.9	1.2
Maximum efficiency	%	75	75	75

Standard specifications at 20 °C ambient. For customized performance, contact technical support.

MECHANICAL, MATERIALS & OPERATION

Motor diameter	15.5 mm	Operating temperature	-30 ~ 65 °C
Motor body length	26.9 mm	Housing material	Zinc-plated steel
Motor weight	16 g	Winding material	Enameled copper wire
Shaft diameter	1.5 mm	Magnet material	Ferrite
Shaft configuration	Single/Dual	Brush material	Metal graphite brush
Direction of rotation	CW/CCW	Insulation class	UEW
Connector	2	Pole pairs	2
Working lifespan	150 hours		

CONFIGURATION | COMPATIBLE GEARBOX

Gearbox type	Series	Combination	+ L (mm)
Planetary gearbox	PG16	PG16 + DC050	13.7 - 28.1

+ L: added axial length including the mounting plate, excluding the output shaft.