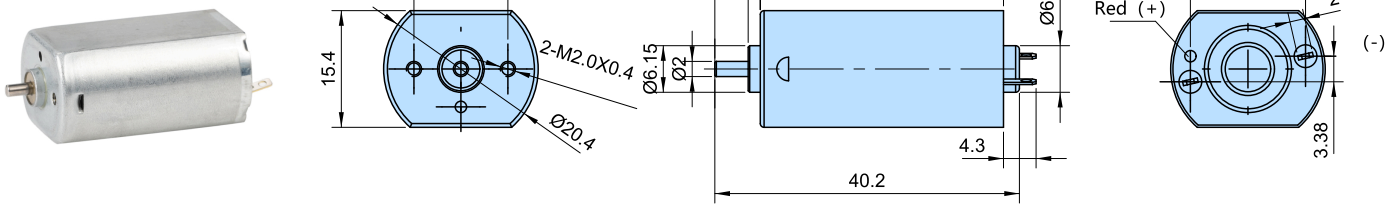
DC180

12 / 24 V · 9000 - 15000 rpm · 4 windings



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

ELECTRICAL PERFORMANCE | STANDARD WINDINGS

Parameter	Unit	DC180-129000	DC180-1215000	DC180-249000	DC180-2415000
Rated voltage	V	12	12	24	24
No-load speed	rpm	9000	15000	9000	15000
Rated speed	rpm	7200	12494	7416	12600
No-load current	mA	50	135	25	55
Rated current	mA	300	600	110	290
Stall current	mA	950	3000	550	1600
Rated torque	gf.cm	24	35	23	36
Stall torque	gf.cm	120	215	130	220
Rated output power	W	1.8	4.5	1.74	4.45
Maximum efficiency	%	72	71	71	71

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

MECHANICAL, MATERIALS & OPERATION

Motor diameter	20.4 mm	Operating temperature	-30 ~ 65 °C
Motor body length	32.1 mm	Housing material	Zinc-plated steel
Motor weight	31 g	Winding material	Enameled copper wire
Shaft diameter	2 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	PG22	PG22 + DC180	13.9 - 24.7

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