



## PD024024

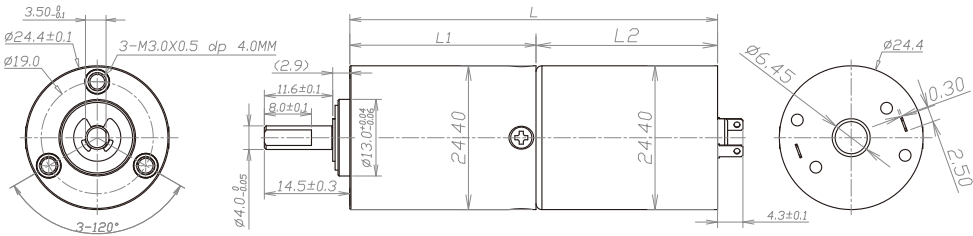
### Gearbox Specifications

Outer diameter	24mm	Bearing	Porous bearing	Rolling bearing
Material	Plastic	Axial endplay	≤0.2mm	≤0.2mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤50N	≤100N
Gear backlash	≤3° Customizable	Operating temperature range	-20 ~ +85°C	

### Gearbox Stages

	1	2	3	4
Reduction ratio	4 / 6	16 / 24 / 36	64 / 96 / 144 / 216	256 / 384 / 576 / 864 / 1296
Max rated torque of gearbox (gf.cm)	15000	15000	15000	15000
Instant torque of gearbox (gf.cm)	45000	45000	45000	45000
Gearbox efficiency (%)	85	73	65	58
Gearbox length L1 (mm)	18.5	24.5	31.5	38.65

### Technical Drawing



### Motor Specifications

Motor type (optional)	Brushed DC motor, Brushless DC motor, Coreless motor, Stepper motor	Input speed	≤15000rpm
Voltage (optional)	3-24V	Current	300mA max

Parameter (values at 12V & 6000rpm) The following data is for reference only.

Model	Rated Speed	Max Speed	Max Rated Torque	Max Instant Torque	Reduction Ratio	Gearbox Length	Overall Length
	rpm	rpm	gf.cm	gf.cm		mm	mm
PD024024-4	1150	1500	15000	45000	4	18.5	49.3
PD024024-6	767	1000	15000	45000	6		
PD024024-16	288	375	15000	45000	16	24.5	55.3
PD024024-24	192	250	15000	45000	24		
PD024024-36	128	167	15000	45000	36		
PD024024-64	72	94	15000	45000	64	31.5	62.3
PD024024-96	48	63	15000	45000	96		
PD024024-144	32	42	15000	45000	144		
PD024024-216	21	38	15000	45000	216		
PD024024-256	18	23	15000	45000	256	38.65	69.45
PD024024-384	12	16	15000	45000	384		
PD024024-576	8	10	15000	45000	576		
PD024024-864	5	7	15000	45000	864		
PD024024-1296	4	5	15000	45000	1296		

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