



## MD024024

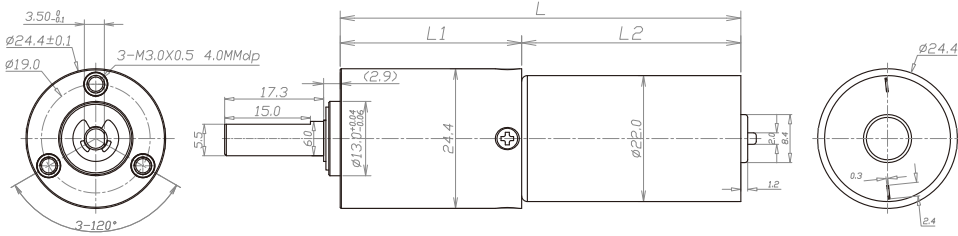
### Gearbox Specifications

Outer diameter	24mm	Bearing	Porous bearing	Rolling bearing
Material	Metal	Axial endplay	≤0.2mm	≤0.2mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤120N	≤170N
Gear backlash	≤2° Customizable	Operating temperature range	-30 ~ +100°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)	20000	20000	20000	20000
Instant torque of gearbox (gf.cm)	60000	60000	60000	60000
Gearbox efficiency (%)	90	85	80	75
Gearbox length L1 (mm)	19	25	32	39

### 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
MD024024-4	1150	1500	20000	60000	4	19.0	49.8
MD024024-6	767	1000	20000	60000	6		
MD024024-16	288	375	20000	60000	16	25.0	55.8
MD024024-24	192	250	20000	60000	24		
MD024024-36	128	167	20000	60000	36		
MD024024-64	72	94	20000	60000	64	32.0	62.8
MD024024-96	48	63	20000	60000	96		
MD024024-144	32	42	20000	60000	144		
MD024024-216	21	38	20000	60000	216		
MD024024-256	18	23	20000	60000	256	39.0	69.8
MD024024-384	12	16	20000	60000	384		
MD024024-576	8	10	20000	60000	576		
MD024024-864	5	7	20000	60000	864		
MD024024-1296	4	5	20000	60000	1296		

\*Please contact us for customized products