

## MD028028

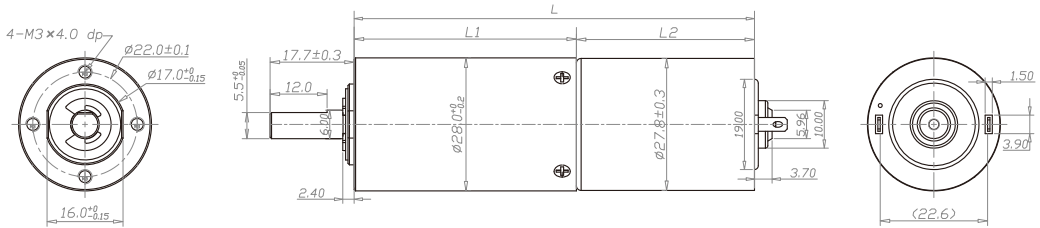
### Gearbox Specifications

Outer diameter	28mm	Bearing	Porous bearing	Rolling bearing
Material	Metal	Axial endplay	≤0.1mm	≤0.1mm
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)	40000	40000	40000	40000
Instant torque of gearbox (gf.cm)	120000	120000	120000	120000
Gearbox efficiency (%)	87	64	51	41
Gearbox length L1 (mm)	21.3	29.8	38.3	46.8

### Technical Drawing



### Motor Specifications

Motor type (optional)	Brushed DC motor, Brushless DC motor, Stepper motor	Input speed	≤15000rpm
Voltage (optional)	3-24V	Current	400mA max

Parameter (values at 24V & 7700rpm) 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
MD028028-4	1658	1925	40000	120000	4	21.3	58.8
MD028028-6	1105	1283	33000	100000	6		
MD028028-16	413	472	40000	120000	16	29.8	67.3
MD028028-24	276	312	40000	120000	24		
MD028028-36	181	211	33000	100000	36		
MD028028-64	104	119	40000	120000	64		
MD028028-96	69	79	40000	120000	96	38.3	75.8
MD028028-144	46	54	40000	120000	144		
MD028028-216	31	35	33000	100000	216		
MD028028-256	26	30	40000	120000	256		
MD028028-384	17	19	40000	120000	384	46.8	84.3
MD028028-576	12	13	40000	120000	576		
MD028028-864	8	9	40000	120000	864		
MD028028-1296	5	6	33000	100000	1296		

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