



MD016016

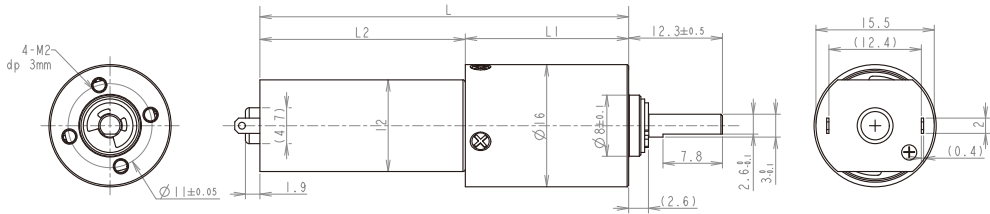
Gearbox Specifications

Outer diameter	16mm	Bearing	Porous bearing	Rolling bearing
Material	Metal	Axial endplay	≤0.3mm	≤0.3mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤20N	≤30N
Gear backlash	≤2°	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)	5000	5000	5000	5000
Instant torque of gearbox (gf.cm)	10000	10000	10000	10000
Gearbox efficiency (%)	90	85	80	75
Gearbox length L1 (mm)	11.5	14.8	18.1	21.4

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 6V & 8000rpm) 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
MD016016-4	1875	7500	5000	10000	4	11.5	38.4
MD016016-6	1250	5000	5000	10000	6		
MD016016-16	469	1875	5000	10000	16	14.8	41.7
MD016016-24	313	1250	5000	10000	24		
MD016016-36	208	833	5000	10000	36		
MD016016-64	117	469	5000	10000	64	18.1	45.0
MD016016-96	78	313	5000	10000	96		
MD016016-144	52	208	5000	10000	144		
MD016016-216	35	139	5000	10000	216		
MD016016-256	29	117	5000	10000	256	21.4	48.3
MD016016-384	20	78	5000	10000	384		
MD016016-576	13	52	5000	10000	576		
MD016016-864	9	35	5000	10000	864		
MD016016-1296	6	23	5000	10000	1296		

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