



ZWBPD016016

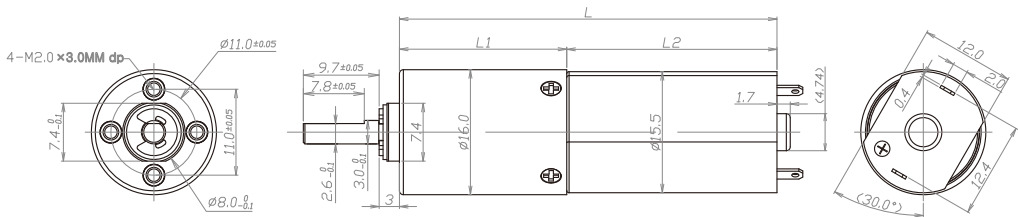
Gearbox specifications

Outer diameter	16mm	Bearing	Porous bearing	Rolling bearing
Material	Plastic	Axial endplay	≤0.1mm	≤0.1mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤10N	≤20N
Gear backlash	≤3° (Customisable)	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)	3000	3000	3000	3000
Instant torque of gearbox (gf.cm)	6000	6000	6000	6000
Gearbox efficiency	85	73	65	58
Length L1 (mm)	11.5	14.8	18.1	21.4

Technical illustrations



Motor specifications

Motors	Coreless motor, brushless motor, Stepper motor	Input speed	≤15000rpm
Voltage(Optional)	3-24V	Current	300mA max

Reference data (motor definition value): 6v 8000rpm The following table is tested according to the motor definition value, the data is only for reference

Model	Rated Speed	Max Speed	Max Rated Torque	Max Instant Torque	Reduction ratio	Length L1	Overall Length
	rpm	rpm	gf.cm	gf.cm		mm	mm
ZWBPD016016-4	1875	7500	3000	6000	4	11.5	38.4
ZWBPD016016-6	1250	5000	3000	6000	6		
ZWBPD016016-16	469	1875	3000	6000	16	14.8	41.7
ZWBPD016016-24	313	1250	3000	6000	24		
ZWBPD016016-36	208	833	3000	6000	36		
ZWBPD016016-64	117	469	3000	6000	64	18.1	45.0
ZWBPD016016-96	78	313	3000	6000	96		
ZWBPD016016-144	52	208	3000	6000	144		
ZWBPD016016-216	35	139	3000	6000	216		
ZWBPD016016-256	29	117	3000	6000	256	21.4	48.3
ZWBPD016016-384	20	78	3000	6000	384		
ZWBPD016016-576	13	52	3000	6000	576		
ZWBPD016016-864	9	35	3000	6000	864		
ZWBPD016016-1296	6	23	3000	6000	1296		

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