



ZWBPD022022

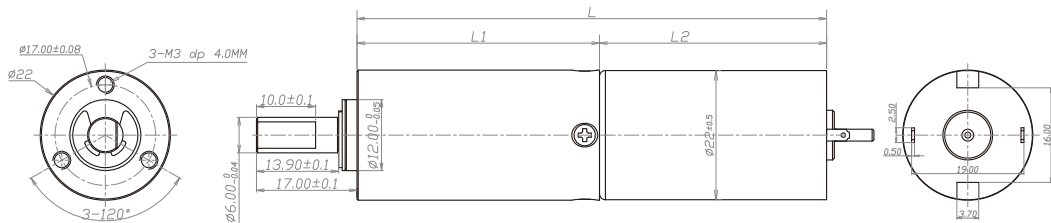
Gearbox specifications

Outer diameter	22mm	Bearing	Porous bearing	Rolling bearing
Material	Plastic	Axial endplay	≤0.1mm	≤0.1mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤50N	≤100N
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)	8000	8000	8000	8000
Instant torque of gearbox (gf.cm)	20000	20000	20000	20000
Gearbox efficiency	85	73	65	58
Length L1 (mm)	19.1	26.4	33.7	41

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): 24v 8300rpm 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			
ZWBPD022022-4	1875	7500	8000	20000	4	19.1	57.5
ZWBPD022022-6	1250	5000	8000	20000	6		
ZWBPD022022-16	469	1875	8000	20000	16	26.4	64.8
ZWBPD022022-24	313	1250	8000	20000	24		
ZWBPD022022-36	208	833	8000	20000	36		
ZWBPD022022-64	117	469	8000	20000	64	33.7	72.1
ZWBPD022022-96	78	313	8000	20000	96		
ZWBPD022022-144	52	208	8000	20000	144		
ZWBPD022022-216	35	139	8000	20000	216		
ZWBPD022022-256	29	117	8000	20000	256	41	79.4
ZWBPD022022-384	20	78	8000	20000	384		
ZWBPD022022-576	13	52	8000	20000	576		
ZWBPD022022-864	9	35	8000	20000	864		
ZWBPD022022-1296	6	23	8000	20000	1296		

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