

24
mm**M**
Metal

ZWBMD024024

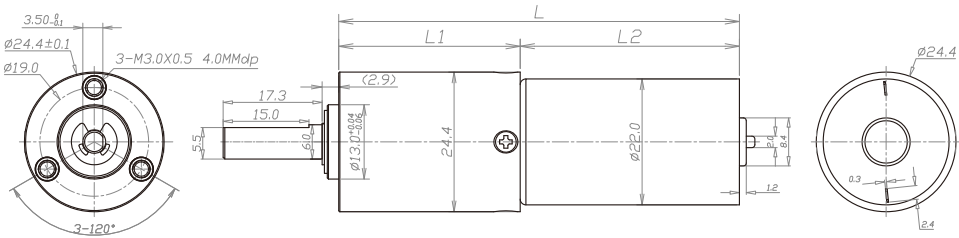
Gearbox specifications

Outer diameter	24mm	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° (Customisable)	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
Length L1 (mm)	19.1	25	32	39

Technical illustrations



Motor specifications

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

Reference data (motor definition value): 12v 6000rpm 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
ZWBMD024024-4	1875	7500	20000	60000	4	19.1	49.9
ZWBMD024024-6	1250	5000	20000	60000	6		
ZWBMD024024-16	469	1875	20000	60000	16	25.0	55.8
ZWBMD024024-24	313	1250	20000	60000	24		
ZWBMD024024-36	208	833	20000	60000	36		
ZWBMD024024-64	117	469	20000	60000	64	32.0	62.8
ZWBMD024024-96	78	313	20000	60000	96		
ZWBMD024024-144	52	208	20000	60000	144		
ZWBMD024024-216	35	139	20000	60000	216		
ZWBMD024024-256	29	117	20000	60000	256	39.0	69.8
ZWBMD024024-384	20	78	20000	60000	384		
ZWBMD024024-576	13	52	20000	60000	576		
ZWBMD024024-864	9	35	20000	60000	864		
ZWBMD024024-1296	6	23	20000	60000	1296		

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