



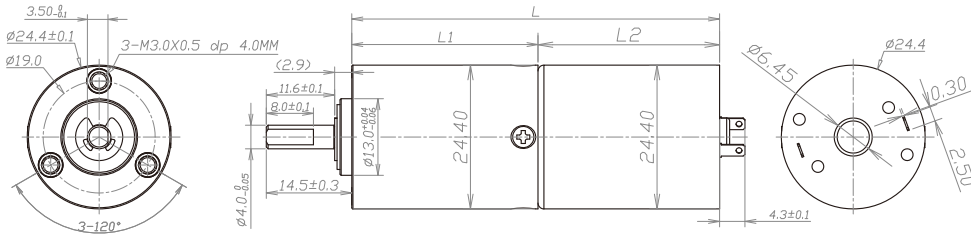
ZWBPD024024

Gearbox specifications

Outer diameter	24mm	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)	15000	15000	15000	15000
Instant torque of gearbox (gf.cm)	45000	45000	45000	45000
Gearbox efficiency	85	73	65	58
Length L1 (mm)	18.8	24.7	31.7	38.7

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			
ZWBPD024024-4	1875	7500	15000	45000	4	18.8	49.6
ZWBPD024024-6	1250	5000	15000	45000	6		
ZWBPD024024-16	469	1875	15000	45000	16	24.7	55.5
ZWBPD024024-24	313	1250	15000	45000	24		
ZWBPD024024-36	208	833	15000	45000	36		
ZWBPD024024-64	117	469	15000	45000	64	31.7	62.5
ZWBPD024024-96	78	313	15000	45000	96		
ZWBPD024024-144	52	208	15000	45000	144		
ZWBPD024024-216	35	139	15000	45000	216		
ZWBPD024024-256	29	117	15000	45000	256	38.7	69.5
ZWBPD024024-384	20	78	15000	45000	384		
ZWBPD024024-576	13	52	15000	45000	576		
ZWBPD024024-864	9	35	15000	45000	864		
ZWBPD024024-1296	6	23	15000	45000	1296		

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