



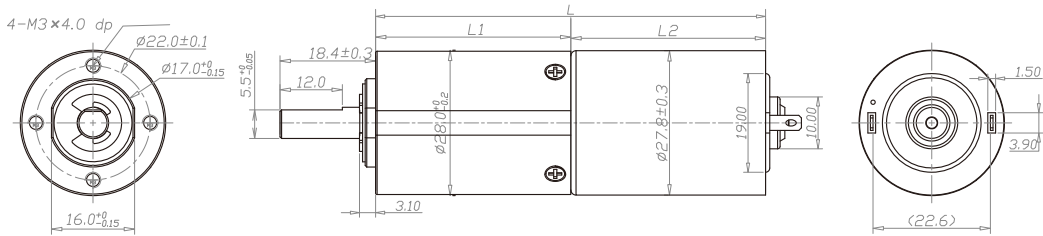
ZWBPD028028

Gearbox specifications

Outer diameter	28mm	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)	60000	60000	60000	60000
Gearbox efficiency	85	73	65	58
Length L1 (mm)	20.6	29.1	37.6	46.1

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): 24v 7700rpm 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			
ZWBPD028028-4	1875	7500	15000	60000	4	20.6	58.1
ZWBPD028028-6	1250	5000	15000	60000	6		
ZWBPD028028-16	469	1875	15000	60000	16	29.1	66.6
ZWBPD028028-24	313	1250	15000	60000	24		
ZWBPD028028-36	208	833	15000	60000	36		
ZWBPD028028-64	117	469	15000	60000	64		
ZWBPD028028-96	78	313	15000	60000	96	37.6	75.1
ZWBPD028028-144	52	208	15000	60000	144		
ZWBPD028028-216	35	139	15000	60000	216		
ZWBPD028028-256	29	117	15000	60000	256		
ZWBPD028028-384	20	78	15000	60000	384	46.1	83.6
ZWBPD028028-576	13	52	15000	60000	576		
ZWBPD028028-864	9	35	15000	60000	864		
ZWBPD028028-1296	6	23	15000	60000	1296		

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