

28
mm**M**
Metal

ZWBMD028028

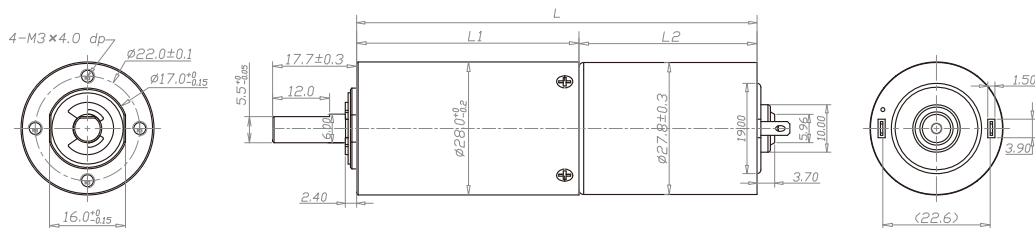
Gearbox specifications

Outer diameter	28mm	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)	40000	40000	40000	40000
Instant torque of gearbox (gf.cm)	120000	120000	120000	120000
Gearbox efficiency	90	85	80	75
Length L1 (mm)	21.3	29.8	38.3	46.8

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			
ZWBMD028028-4	1875	7500	40000	120000	4	21.3	58.8
ZWBMD028028-6	1250	5000	40000	120000	6		
ZWBMD028028-16	469	1875	40000	120000	16	29.8	67.3
ZWBMD028028-24	313	1250	40000	120000	24		
ZWBMD028028-36	208	833	40000	120000	36		
ZWBMD028028-64	117	469	40000	120000	64	38.3	75.8
ZWBMD028028-96	78	313	40000	120000	96		
ZWBMD028028-144	52	208	40000	120000	144		
ZWBMD028028-216	35	139	40000	120000	216		
ZWBMD028028-256	29	117	40000	120000	256	46.8	84.3
ZWBMD028028-384	20	78	40000	120000	384		
ZWBMD028028-576	13	52	40000	120000	576		
ZWBMD028028-864	9	35	40000	120000	864		
ZWBMD028028-1296	6	23	40000	120000	1296		

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