20 mm

M Metal

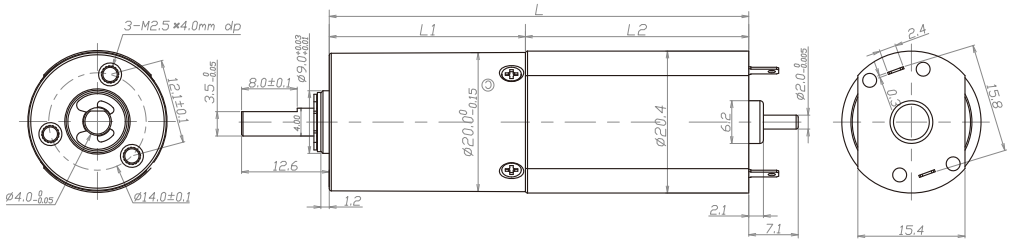
ZWBMD020020

Gearbox specifications

Outer diameter	20mm	Bearing	Porous bearing	Rolling bearing
Material	Metal	Axial endplay	≤0.1mm	≤0.1mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤50N	≤75N
Gear backlash	≤2°（Customisable）	Operating temperature range	-30~ +100℃	

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)	10000	10000	10000	10000
Instant torque of gearbox (gf.cm)	25000	25000	25000	25000
Gearbox efficiency	90	85	80	75
Length L1 (mm)	17.6	22.9	28.2	33.5

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): 12v 7200rpm 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
ZWBMD020020-4	1875	7500	10000	25000	4	17.6	42.7
ZWBMD020020-6	1250	5000	10000	25000	6		
ZWBMD020020-16	469	1875	10000	25000	16	22.9	48
ZWBMD020020-24	313	1250	10000	25000	24		
ZWBMD020020-36	208	833	10000	25000	36		
ZWBMD020020-64	117	469	10000	25000	64	28.2	53.3
ZWBMD020020-96	78	313	10000	25000	96		
ZWBMD020020-144	52	208	10000	25000	144		
ZWBMD020020-216	35	139	10000	25000	216		
ZWBMD020020-256	29	117	10000	25000	256	33.5	58.6
ZWBMD020020-384	20	78	10000	25000	384		
ZWBMD020020-576	13	52	10000	25000	576		
ZWBMD020020-864	9	35	10000	25000	864		
ZWBMD020020-1296	6	23	10000	25000	1296		

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ZW DRIVE ZHAOWEI

ZW Drive GmbH
Alte Marktoberdorfer Strasse 14
87616 Marktoberdorf · Germany

Tel.+49 89 6600 2375
contact@zw-drive.com
www.zw-drive.com