

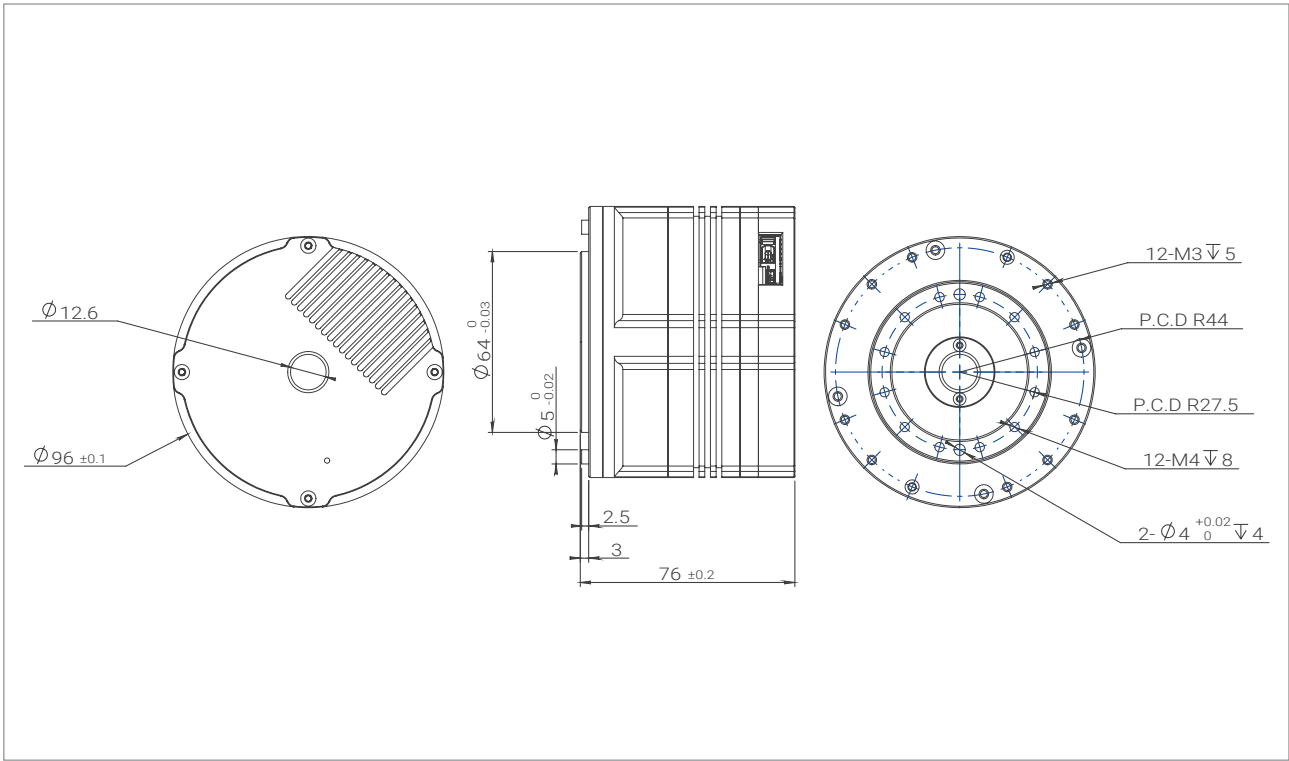
Series Name
RMD-X
Motor Simplified Name
X8-120



Dual encoder

Actuator Full Name	With Brake/Without Brake	Communication
RMD-X8-P20-120-E	N (without Brake)	EtherCAT & CAN BUS

Installation Drawing



Product Parameters

Parameters	Unit	X8-120
Gear Ratio	—	19.612
Input Voltage	V	48
No Load Speed	RPM	158
No-Load Input Current	A	1.6
Rated Speed	RPM	127
Rated Torque	N.m	43
Rated Output Power	W	574
Rated Phase Current	A(rms)	17.6
Peak Torque	N.m	120
Peak Phase Current	A(rms)	43.8
Efficiency	%	79
Motor Back-EMF Constant	Vdc/Krpm	19.2
Module Torque Constant	N.m/A	2.4
Motor Phase Resistance	Ω	0.18
Motor Phase Inductance	mH	0.31
Pole Pair	—	10
3 Phase Connection	—	Y
Back Drive Torque	N.m	3.21
Backlash	Arcmin	10
Output Bearing Type	—	Crossed Roller Bearings
Axial Load	Tensile load	KN
	Compressive load	KN
Radial Load	KN	4.5
Inertia	Kg.cm ²	1.5
Encoder Type & Interface	—	Dual Encoder ABS-17BIT (Input) / 17BIT (Output)
Control Accuracy	Degree	<0.01
Communication	—	EtherCAT & CAN BUS
Weight	Kg	1.40
Insulation Grade	—	F

Stall Torque Data

	Torque (N.m)	Temperature Rise (°C)	Stall Time (s)	Phase Current (Arms)
X8-120	64.5	7	15	23.3
	86	10	10	31.1
	107.5	26	8	38.9
	129	30	5	43.8