

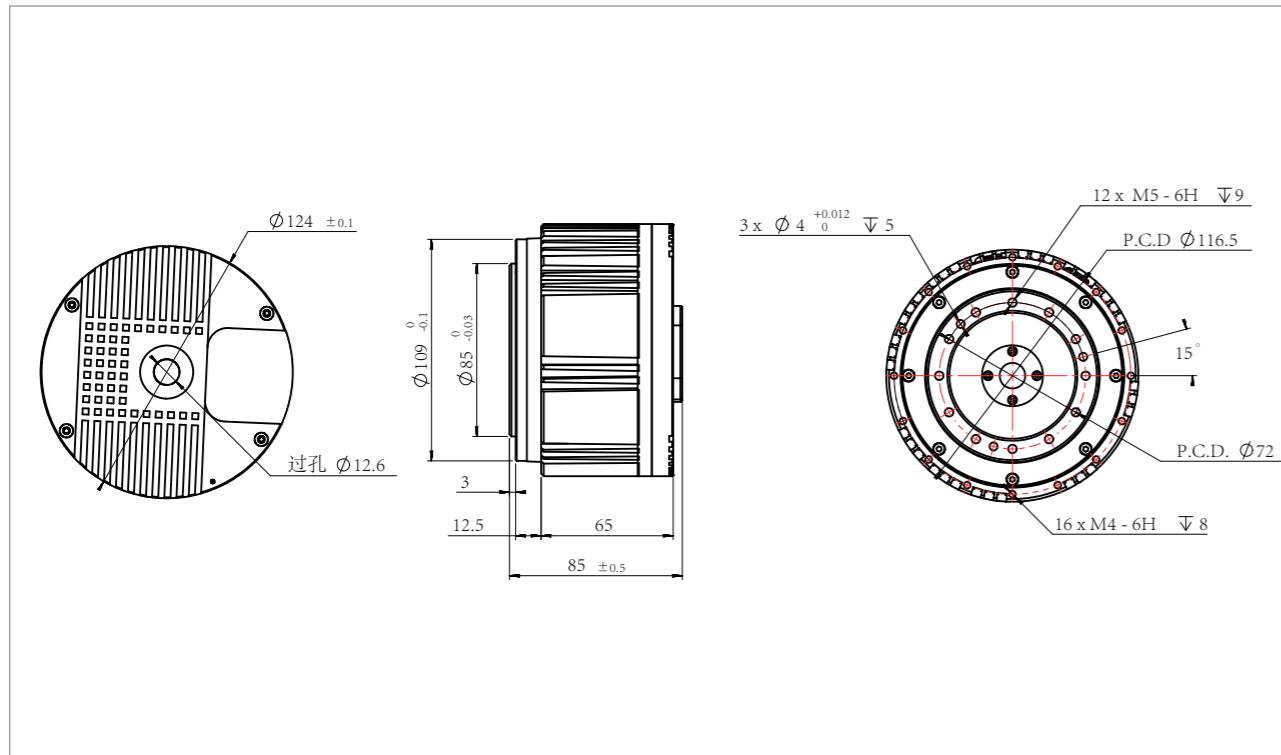
Series Name
RMD-X
Motor Simplified Name
X12-320



Dual encoder

Actuator Full Name	With Brake/Without Brake	Communication
RMD-X12-P20-320-E	N (without Brake)	EtherCAT & CAN BUS

Installation Drawing



Product Parameters

Parameters	Unit	X12-320	
Gear Ratio	—	20	
Input Voltage	V	48	
No Load Speed	RPM	125	
No-Load Input Current	A	2.7	
Rated Speed	RPM	100	
Rated Torque	N.m	85	
Rated Output Power	W	900	
Rated Phase Current	A(rms)	30	
Peak Torque	N.m	320	
Peak Phase Current	A(rms)	100	
Efficiency	%	75	
Motor Back-EMF Constant	Vdc/Krpm	17.9	
Module Torque Constant	N.m/A	3.3	
Motor Phase Resistance	Ω	0.12	
Motor Phase Inductance	mH	0.05	
Pole Pair	—	20	
3 Phase Connection	—	Y	
Back Drive Torque	N.m	3.8	
Backlash	Arcmin	≤15	
Output Bearing Type	—	Crossed Roller Bearings	
Axial Load	Tensile load	KN	4.5
	Compressive load	KN	4.5
Radial Load	KN	5	
Inertia	Kg.cm ²	12.9	
Encoder Type & Interface	—	Dual Encoder ABS-17BIT (Input) /17BIT (Output)	
Control Accuracy	Degree	<0.01	
Communication	—	EtherCAT & CAN BUS	
Weight	Kg	2.37	
Insulation Grade	—	F	

Stall Torque Data

	Torque (N.m)	Temperature Rise (°C)	Stall Time (s)	Phase Current (Arms)
X12-320	150	13	10	37.5
	200	5	8	49.5
	250	7	7	61.5
	300	43	3	75.3