

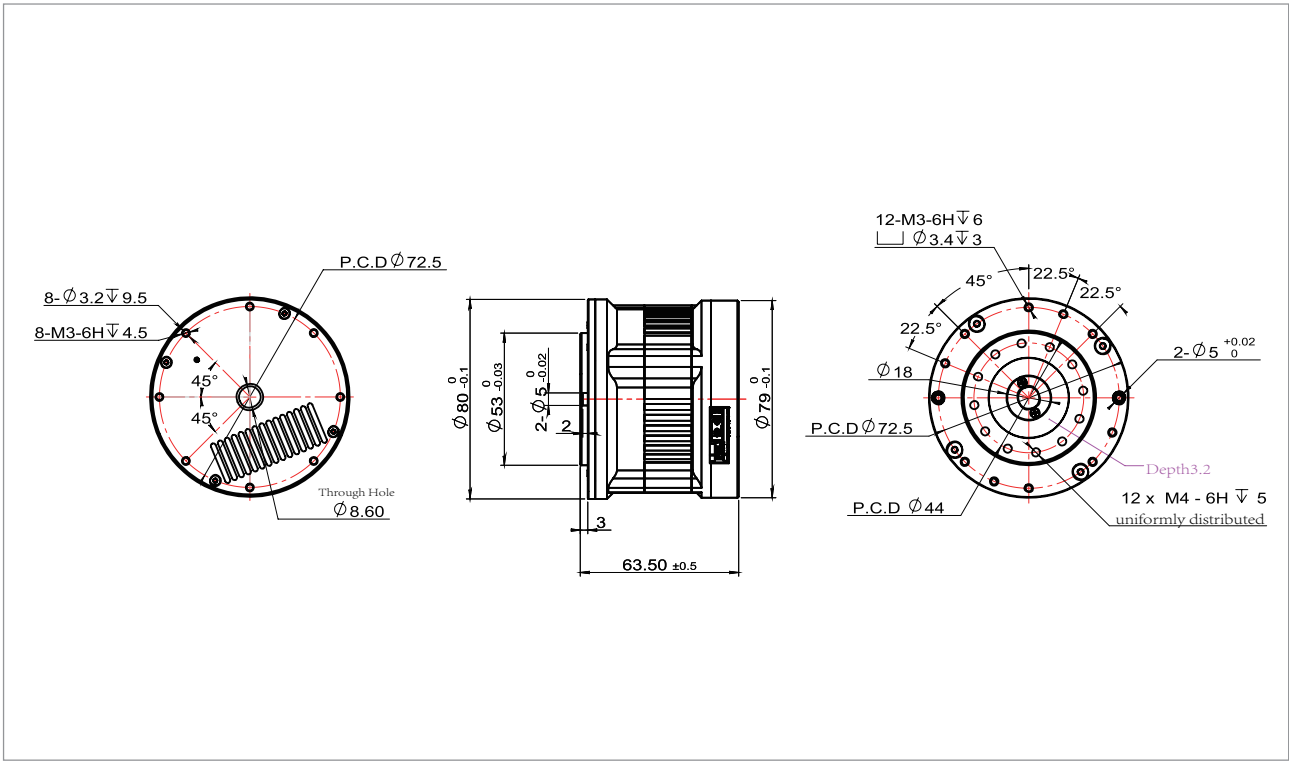
Series Name
RMD-X V4.1
Motor Simplified Name
X6-50-L



Dual encoder

Actuator Full Name	With Brake/Without Brake	Communication
RMD-X6-P20-50-E-L	N (without Brake)	EtherCAT & CAN BUS

Installation Drawing



Product Parameters

Parameters	Unit	X6-50-L
Reduction Ratio	—	19.612
Input Voltage	V	48
Voltage Range	V	20-55
No-load Speed	RPM	176
No-load InputCurrent	A	0.9
Rated Speed	RPM	153
Rated Torque	N.m	20
Rated Output Power	W	320
Rated Phase Current	A(rms)	9.5
	A(peak)	13.4
Peak Torque	N.m	45
Stall Torque	N.m	50
Stall Phase Current	A(rms)	35.4
Efficiency	%	74.5
Motor Back EMF Constant	Vdc/Krpm	11.7
Module Torque Constant	N.m/A(rms)	1.8
	N.m/A(peak)	1.3
Motor Line Resistance	Ω	0.4
Motor Line Inductance	mH	0.504
Pole Pairs	—	10
Wiring Mode	—	Y
Backdrive Torque	N.m	0.2
Backlash	Arcmin	15
Output Shaft Bearing Model	—	XRBT 505
Axial Load C	KN	1.2
Radial Load Cr	KN	1.6
Moment of Inertia	Kg.m ²	0.0019
Encoder Type	—	Dual Encoder ABS 17BIT/19BIT
Absolute Positioning Accuracy	Degree	0.4
Repeat Positioning Accuracy	Degree	0.4
Communication Interface	—	EtherCAT / CAN BUS
Weight	Kg	0.78
Insulation Class	—	F
Dimensions	mm	80×63.5
Hollow Shaft Diameter	mm	8.6

Note:

- 1.The maximum operating voltage of the motor is 55V. It is recommended that customers add an external capacitor to regulate voltage, so as to ensure stable battery power supply and protect the PCB from damage caused by voltage fluctuations.
2. If voltage exceeds the rated value, the operating speed must not exceed the motor's rated speed.