

Series Name
RMD-X V4.1

Motor Simplified Name

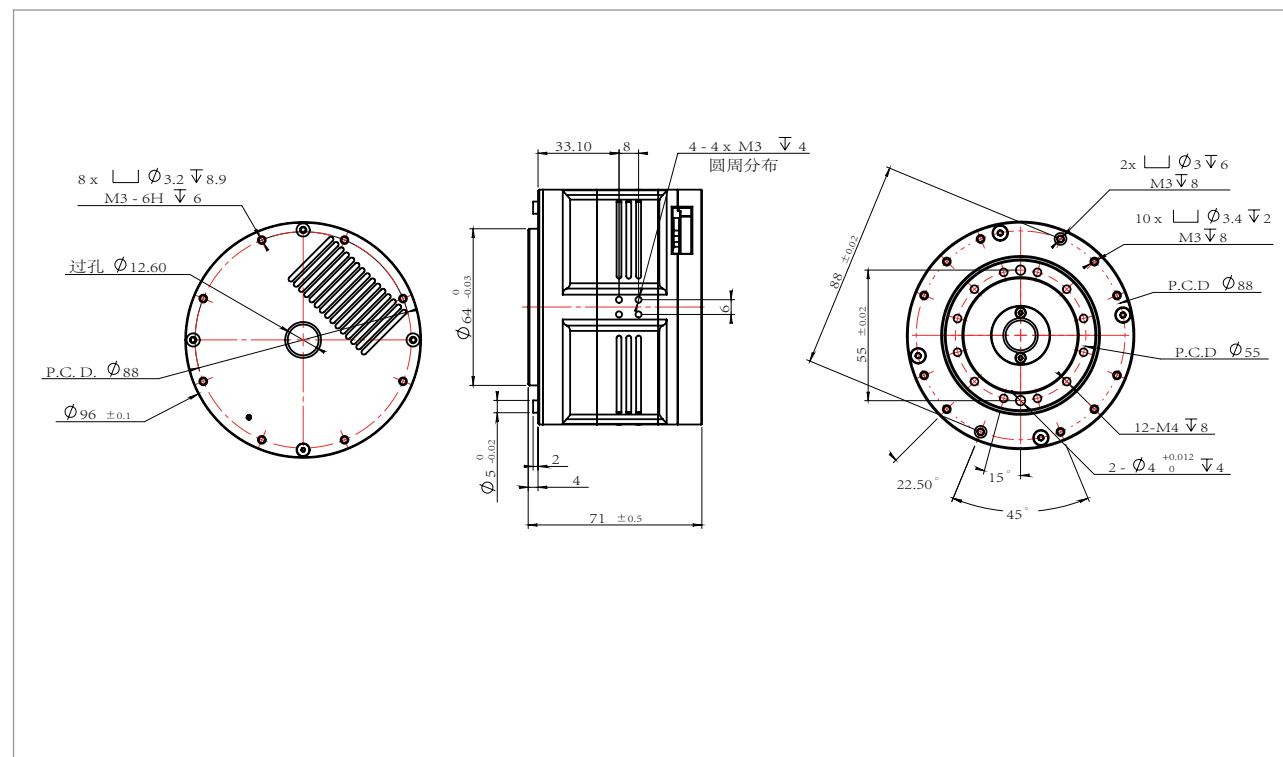
X8-150



Dual encoder

Actuator Full Name	With Brake/Without Brake	Communication
RMD-X8-P20-150-E	N (without Brake)	EtherCAT & CAN BUS

■ Installation Drawing



■ Product Parameters

Parameters		Unit	X8-150
Reduction Ratio		—	19.612
Input Voltage		V	48
Voltage Range		V	20-55
No-load Speed		RPM	158
No-load InputCurrent		A	1.6
Rated Speed		RPM	127
Rated Torque		N.m	43
Rated Output Power		W	574
Rated Phase Current		A(rms)	17.6
		A(peak)	24.89
Peak Torque		N.m	120
Stall Torque		N.m	150
Stall Phase Current		A(rms)	67.18
Efficiency		%	75
Motor Back EMF Constant		Vdc/Krpm	13.74
Module Torque Constant		N.m/A(rms)	2.97
		N.m/A(peak)	2.1
Motor Line Resistance		Ω	0.18
Motor Line Inductance		mH	0.33
Pole Pairs		—	10
Wiring Mode		—	Y
Backdrive Torque		N.m	0.34
Backlash		Arcmin	15
Output Shaft Bearing Model		—	CRBT 655
Axial Load C		KN	1.4
Radial Load Cr		KN	1.9
Moment of Inertia		Kg.m²	0.001023
Encoder Type		—	Dual Encoder ABS-17BIT/ABS-19BIT
Absolute Positioning Accuracy		Degree	0.1
Repeat Positioning Accuracy		Degree	0.2
Communication Interface		—	EtherCAT / CAN BUS
Weight		Kg	1.33
Insulation Class		—	F
Dimensions		mm	96×71
Hollow Shaft Diameter		mm	12.6

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.