

Parameter	Unit	Value
Basic Parameters		
Motor type		Brushless torque servo motor
Voltage range	V	12~40
Peak torque	N.m	8.5
Rated torque	N.m	4.0
Peak current	A	16
Nominal current	A	3.8
Nominal voltage	V	36
Nominal power (source rating)	W	136.8
Outer diameter	mm	109 +/-0.1
Nominal speed	rpm	168
Body height	mm	43 +/-0.1
Motor weight	g	1028
Motor Parameters		
Number of pole pairs	Pair	21
Phase resistance	Ohm	1.5
Phase inductance (source unit: Mh)	Mh	1.13
Torque constant	N.m/A	1.03
Speed constant	rpm/V	9.2
Control Parameters		
No-load maximum speed	rpm	330
Encoder type		Single-turn absolute
Control resolution	bit	14
Dynamic and Operating Parameters		
Rotor inertia	g*cm^2	7796
Working temperature range	deg C	-20~80
Interface Parameters		
Communication interface		RS485 & CAN
Configuration interface		RS485
Supported modes (may vary with firmware version)		
Absolute position mode		Absolute target position control
Speed mode		Target speed and acceleration control
Current (torque) mode		Q-axis current control; torque estimated from current
Relative position mode		Relative displacement control
Status feedback		Position, speed, current and operating status