MG-H109-50 Parameters

Parameter	Unit	Value
Basic Parameter		
Motor type		Brushless servo motor
Voltage range	V	24~48
Peak torque	N.M	15
Rated torque	N.M	4
Peak current	A	40
Continuous current	A	<8
Instantaneous power	W	1900
Rated power	W	384
Outer diameter	mm	109
Minimum inner diameter	mm	50
Height	mm	49
Weight	g	1130
Motor Parameter		
Number of pole pairs	Pair	21
Wire resistance	Ohm	0.51
Wire inductance	uH	280
Torque constant	N.M/A	0.375
Speed constant	v/krpm	43.63
Control Accuracy Parameter		
Maximum speed	rpm	1000
Minimum speed	rpm	0.01
Encoder type		Single turn absolute value
Encoder resolution	bit	20
[Position] Repeated positioning accuracy	deg	+/-0.004
[Position] Absolute accuracy	deg	+/-0.004
[Speed] Rate of speed change	%	<+/-0.5
[Speed] Speed resolution	Hz	0.0001
Dynamic Parameter		
Rotor inertia	kg*mm^2	946.6
Bearing type		6811ZZ
Bearing accuracy		P5
Bearing dynamic load Cr	kN	8.8
Bearing static load C0r	kN	8.1
Working temperature range	deg C	5~50
Noise	dB	<50
Interface Parameter		
Number of interfaces		7
Control interface 1		CAN FD
Control interface 2		PWM
Configuration interface		RS485
The secondary encoder interface		Only support our hollow encoder module
Supported modes (may vary with firmware version)		
Position mode		Position speed current three closed loop mode
Speed mode		Speed closed loop mode
Current(torque) mode		Torque closed loop mode