

60mm Outer Rotor Brushless DC Motor



GENERAL SPECIFICATION

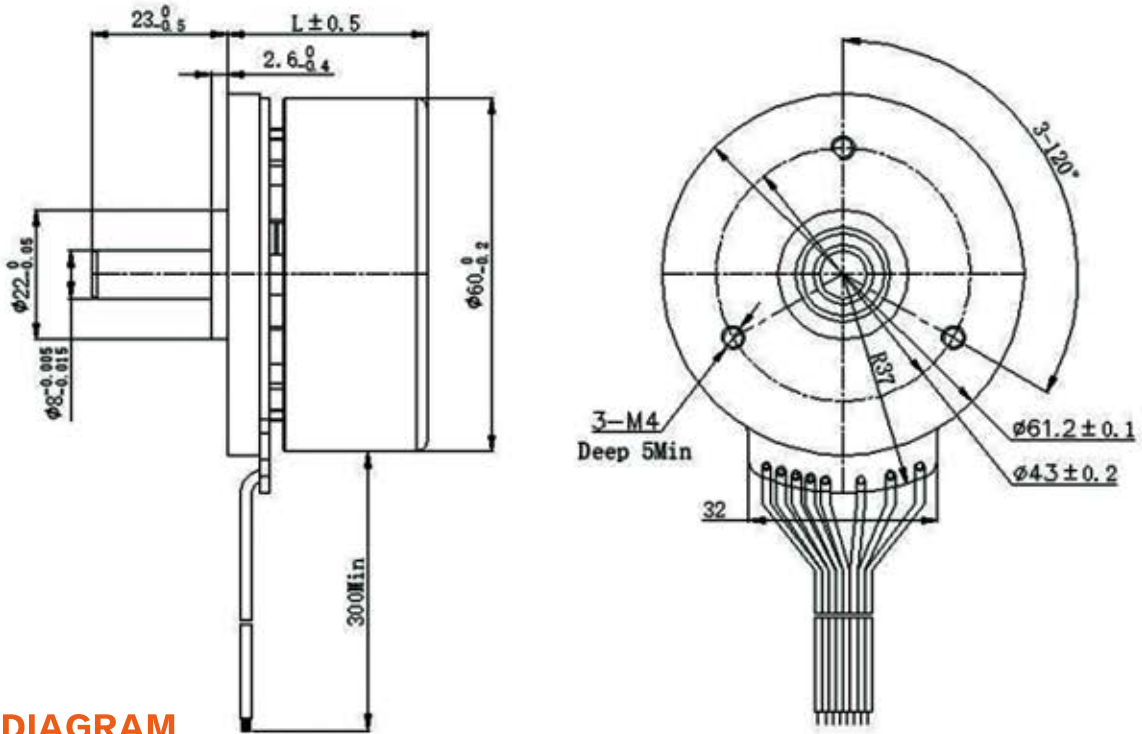
Winding type	Star	Insulation Resistance	100MΩMin. ,500VDC
Hall effect angle	120 degree electrical angle	Dielectric Strength	500VAC for one minute
Resistance Accuracy	±10% @20°C	Shaft Radial Play	0.02Max. (450 g-load)
Inductance Accuracy	±20% @1kHz	Shaft Axial Play	0.15Max. (450 g-load)
Ambient Temperature	-20°C~+50°C	Insulation class	Class B

ELECTRICAL SPECIFICATION

Model		60DMWO34-1232	60DMWO34-2437	60DMWO38-4835
Number of poles		14		
Number of phase		3		
Rated voltage	VDC	12	24	48
Rated speed	RPM	3190	3740	3500
No-load speed	RPM	3700	4200	3970
No-load current	A	1.0	0.8	0.6
Rated power	W	90	110	120
Rated torque	mN.m	267	284	400
Rated current	A	8.9	5.2	3.5
Peak torque	mN.m	800	852	1200
Peak current	A	26.7	15.6	10.5
Maximum efficiency	%	84	86	88
Line to line resistance	ohms	0.13	0.31	1.1
Line to line inductance	mH	0.1	0.25	1.0
Torque constant	mN.m/A	30	55	115
Back E.M.F	Vrms/KRPM	2.3	4.05	8.55
Rotor inertia	g.cm ²	1150	1150	1300
Weight	Kg	0.38	0.38	0.45
Length	mm	34	34	38

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DIMENSIONS



WIRE DIAGRAM

Lead	Color	Lead Gauge	Function	Instructions
1	RED	UL1430 26AWG	Vcc	Hall positive: +5V~+24V DC
2	BLUE		HALL A	
3	GREEN		HALL B	
4	WHITE		HALL C	
5	BLACK	UL1430 20AWG	GND	HALL negative
6	YELLOW		PHASE U	
7	RED		PHASE V	
8	BLACK		PHASE W	