

22mm Brushless DC -With Internal Drive



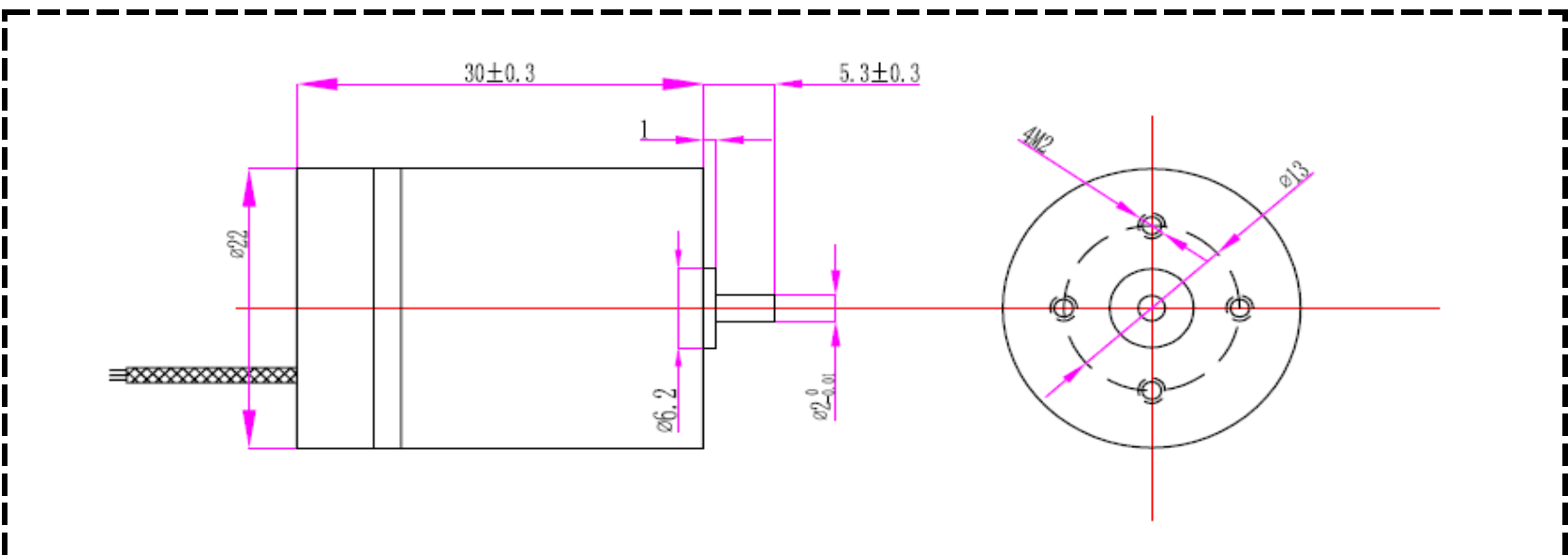
Specifications:

General Specifications

Number of phases	3
Number of poles	2
Operating temperature range	-30°C ~ 85°C
Commutation	Electrically commutated
Bearing type	Shielded ball bearings
Housing material	Black anodized aluminum
Magnet material	Sintered Nd-Fe-B
Direction of rotation	Reversible
Insulation Class	Class B (130°C max.)
Dielectric strength	500 VDC for one minute
Insulation resistance	100Mohms min., 500VDC

Model		DM2230-06-002-I	DM2230-12-001-I	DM2230-24-005-I		
Nominal Voltage	V	6	12	24		
Rated Speed	RPM	8871	3373	13325		
Rated Current	A	0.94	0.24	0.56		
Rated Torque	mNm	2.23	2.07	3.60		
Rated Efficiency	%	39	30	40		
Phase Resistance	R	3.1	31	20.5		
Output Power	W	2.15	0.73	5.24		
Max. Efficiency	%	39	30	40		
No-Load Speed	RPM	14850	6890	22130		
No-Load Current	A	0.27	0.08	0.16		
Stall Torque	mNm	5.53	4.05	9.04		
Friction Torque	mNm	0.90	1.06	1.43		
Back EMF Constant	mV/RPM	0.35	1.38	1.94		
Torque Constant	mNm/A	3.32	13.19	8.94		
Slope of Speed vs. Torque Curve	RPM/mNm	2685.59	1,700.41	2,448.87		
Mechanical time Constant	mS	34.59	21.9	31.54		
Rotor Inertia	g-cm ²	1.23	1.23	1.23		
Max. Angular Acceleration	10 ³ rad/s ²	44.96	32.94	73.47		
Sensor		Hall Sensor	Hall Sensor	Hall Sensor		
Driver Recommendation		DR2401IE	DR2401IE	DR2401IE		
Weight	g	45	45	45		
Motor Body Length	"L"	30	30	30		

Outline Drawing



Performance Curve

