

# 35mm Brushless DC Motor-IE



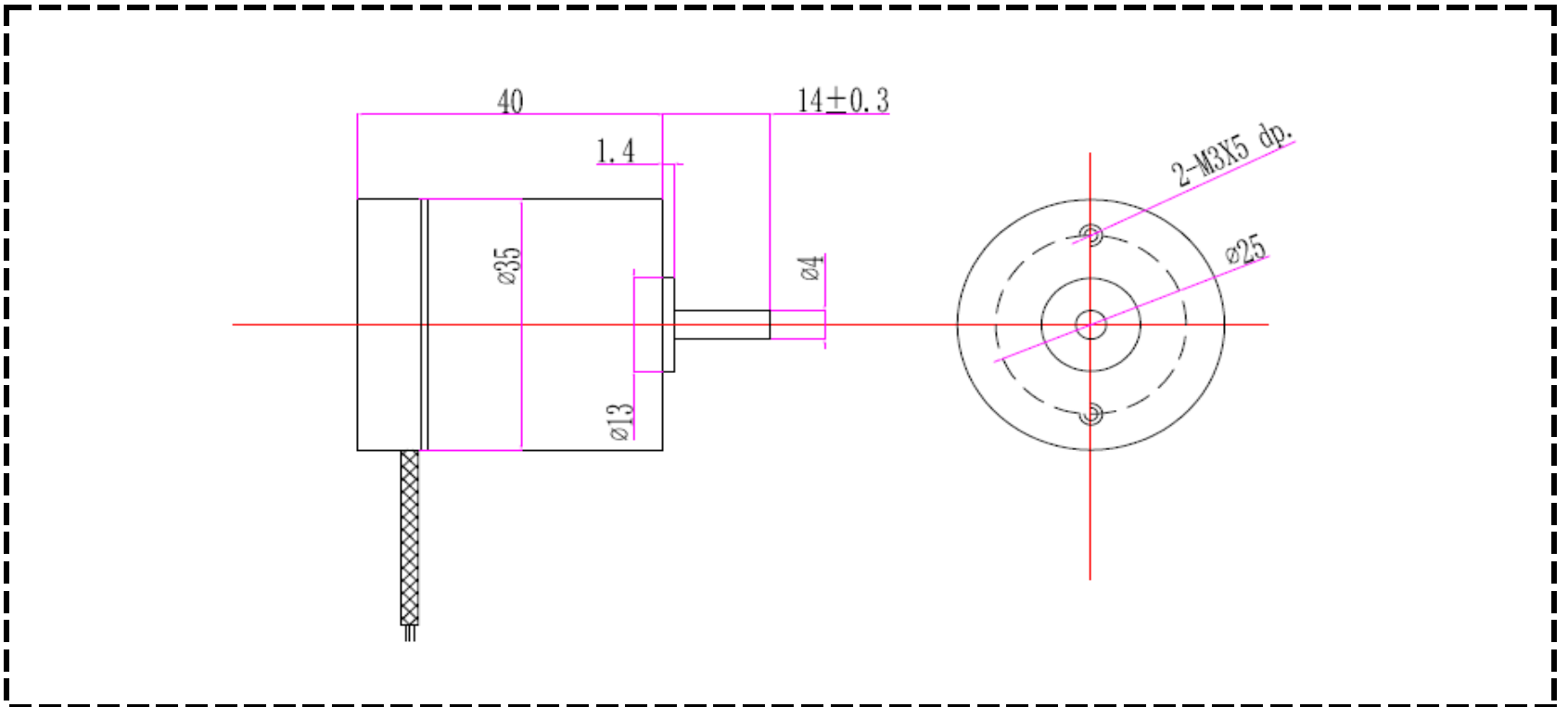
## Specifications:

### 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		DN3540-12-005-I				
Nominal Voltage	V	12				
Rated Speed	RPM	3934				
Rated Current	A	0.82				
Rated Torque	mNm	11				
Rated Efficiency	%	48				
Phase Resistance	R	5.7				
Output Power	W	5.17				
Max. Efficiency	%	48				
No-Load Speed	RPM	5820				
No-Load Current	A	0.2				
Stall Torque	mNm	33.95				
Friction Torque	mNm	3.56				
Back EMF Constant	mV/RPM	1.87				
Torque Constant	mNm/A	17.82				
Slope of Speed vs. Torque Curve	RPM/mNm	171.43				
Mechanical time Constant	mS	23.09				
Rotor Inertia	g-cm <sup>2</sup>	12.86				
Max. Angular Acceleration	10 <sup>3</sup> rad/s <sup>2</sup>	26.4				
Sensor		Hall Sensor				
Driver Recommendation		DR3006IE				
Weight	g	135				
Motor Body Length	"L"	40				

## Outline Drawing



## Performance Curve

