

33mm , GM33Y Series Brushless DC Motors

● General Specification

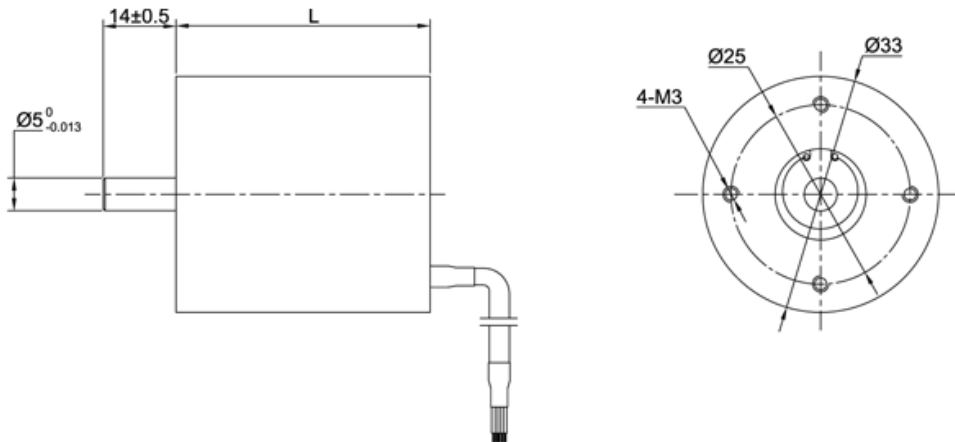
Item	Specifications
Winding type	WYE
Hall effect angle	120 degree electrical angle
Shaft run out	0.025mm
Radial play	0.02mm@450g
End play	0.08mm@450g
Max. radial force	15N @ 10mm from the flange
Max. axial force	10N
Insulation class	Class B
Dielectric strength	500VDC for one minute
Insulation resistance	100MΩMin., 500VDC



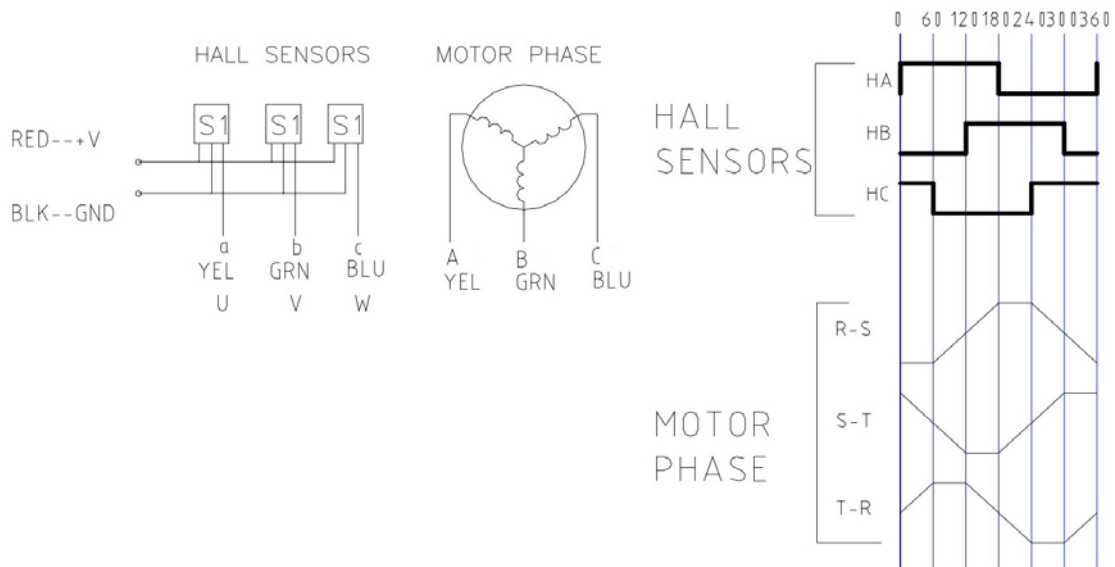
● Technique Specifications

Model		GM33Y-36A150	GM33Y-36A200	GM33Y-36I2200
Number of poles		4		
Number of phase		3		
Rated voltage	VDC	24	24	12
Rated speed	RPM	15000	20000	20000
Continuous stall torque	Oz-in/mN.m	3.1 / 22	2 / 14.16	2 / 14.16
Rated torque	Oz-in/mN.m	3.7 / 26	1.7 / 11.8	1.7 / 11.8
Rated power	W	41	25	25
Peak torque	mN.m	9.3 / 66	5 / 35.4	5 / 35.4
Peak current	A	6	4.05	8.1
Torque constant	OZ-in/A	1.77	1.27	0.64
	Nm/A	12.5×10^{-3}	9×10^{-3}	4.5×10^{-3}
Back E.M.F	V/KRPM	1.33	1.09	0.54
Rotor inertia	g.c m ²	2.33	2.33	2.33
Body length	mm	36	36	36
Voltage range	VDC	12~24		
Speed Range	rpm	4000~22000		
Weight	Kg	0.1	0.1	0.1

- **Dimensions (mm)**



- **Wiring Diagram**



- **Custom Motor Options**

Custom housing to meet your dimensional requirements

Custom shaft options: extended, slotted, cross drilled, hollow shaft etc

Custom winding to meet your specific application needs

Lead wire options: special lengths, heat shrink, Teflon leads, pins, connectors, cable harnesses etc

Bearing & lubricant options for high temperature/humid operations

Encoders, gearboxes, sprockets and pulleys installation