

57mm NEMA 23, GM57S Series Brushless DC Motors

- General Specification

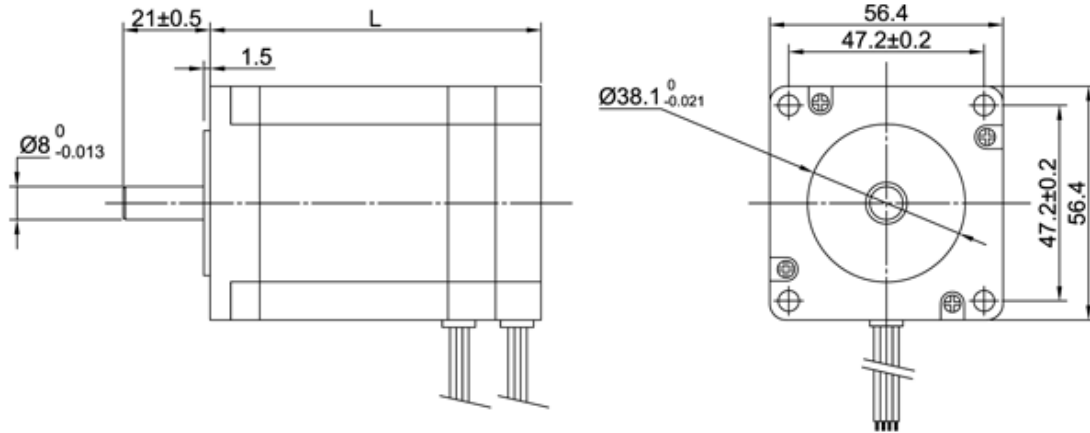
Item	Specifications
Winding type	WYE
Hall effect angle	120 degree electrical angle
Shaft run out	0.05mm
Radial play	0.02mm@400g
End play	0.02mm@400g
Max. radial force	75N @ 20mm from the flange
Max. axial force	15N
Insulation class	Class B
Dielectric strength	500VDC for one minute
Insulation resistance	100MΩMin., 500VDC



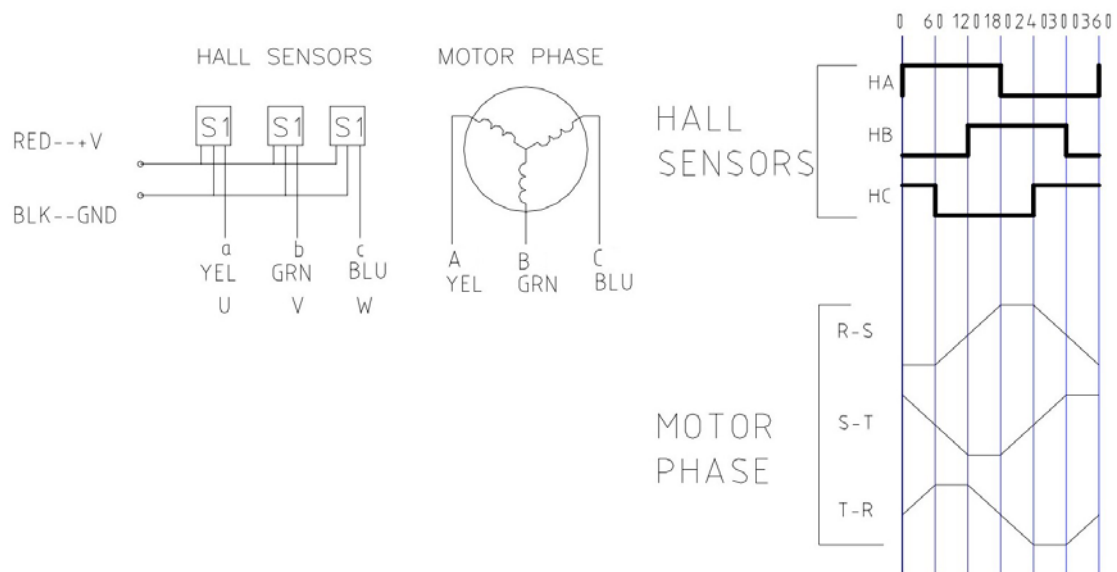
- Technique Specifications

Model		GM57S-6	GM57S-6	GM57S-8	GM57S-8	GM57S-1	GM57S-1
		0A10	0A30	0A10	0A30	00A10	00A30
Number of poles	8						
Number of phase	3						
Rated voltage	VDC	24	24	24	24	24	24
Rated speed	RPM	1000	3000	1000	3000	1000	3000
Continuous stall torque	Oz-in	34	34	68	68	102	102
	N.m	0.24	0.24	0.48	0.48	0.72	0.72
Rated torque	Oz-in	28.3	28.3	56.6	56.6	85	85
	N.m	0.2	0.2	0.4	0.4	0.6	0.6
Rated power	W	21	63	42	125	62	188
Peak torque	Oz-in	85	85	170	170	255	255
	N.m	0.6	0.6	1.2	1.2	1.8	1.8
Peak current	A	3.28	9.84	3.28	9.84	3.28	9.84
Torque constant	Oz-in/A	32.2	8.2	32.2	8.2	32.2	8.2
	Nm/A	0.227	0.058	0.227	0.058	0.227	0.058
Back E.M.F	V/KRPM	24	6.1	24	6.1	24	6.1
Rotor inertia	g.c m²	145	145	286	286	420	420
Body length	mm	59	59	80	80	101	101
Voltage range	VDC	12~60		12~80		24~120	
Speed Range	rpm	1000~3000					
Weight	Kg	0.6	0.6	1	1	1.5	1.5

- 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