

110mm NEMA 42, GM110S Series Brushless DC Motors

● General Specification

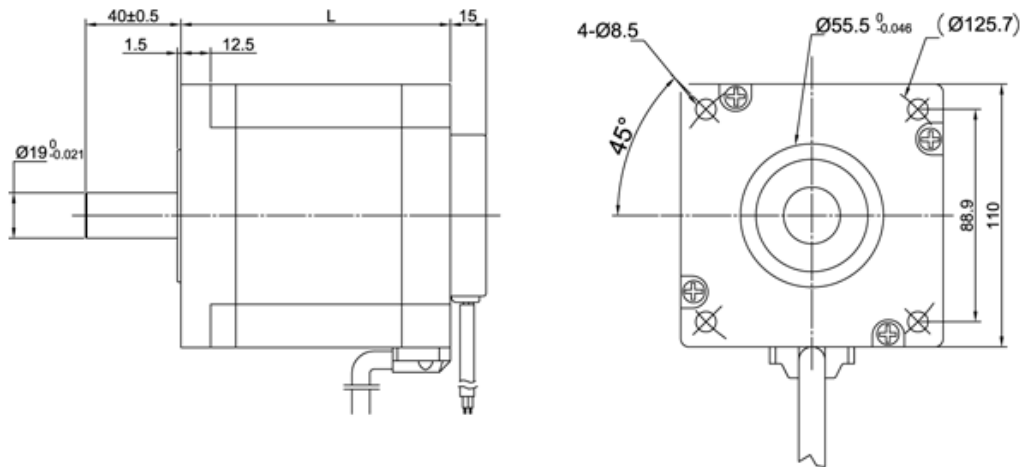
Item	Specifications
Winding type	WYE
Hall effect angle	120 degree electrical angle
Shaft run out	0.05mm
Radial play	0.02mm@460g
End play	0.08mm@450g
Max. radial force	220N @ 20mm from the flange
Max. axial force	60N
Insulation class	Class B
Dielectric strength	500VDC for one minute
Insulation resistance	100MΩMin., 500VDC



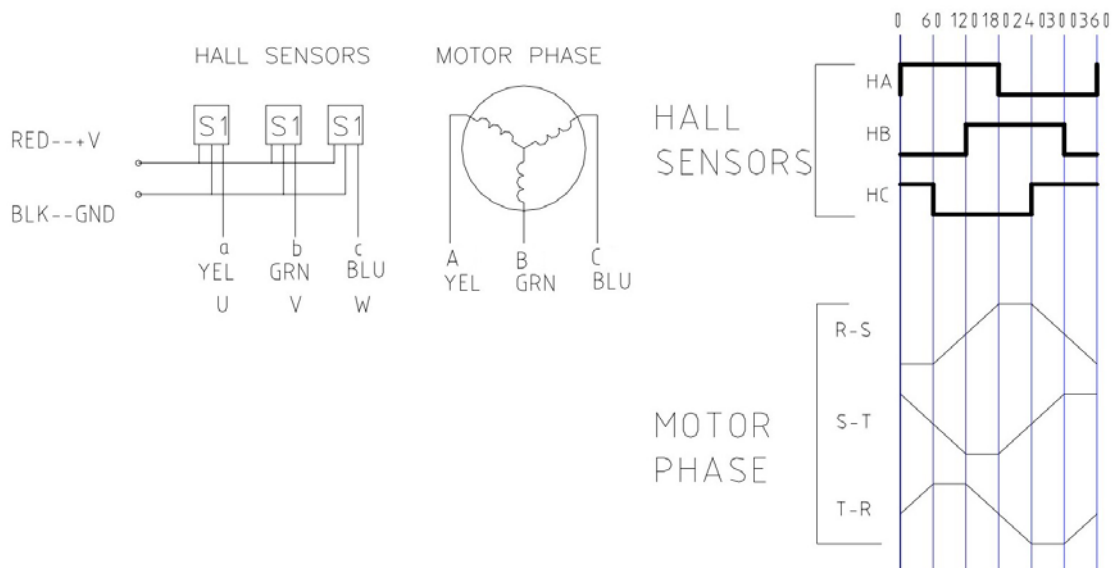
● Technique Specifications

Model		GM110S-113C25	GM110S-113D10	GM110S-113E30	GM110S-173D10	GM110S-173F25
Number of poles	8					
Number of phase	3					
Rated voltage	VDC	48	170	310	170	325
Rated speed	RPM	2500	1000	3000	1000	2500
Continuous stall torque	Oz-in	510	510	510	1020	1020
	N.m	3.6	3.6	3.6	7.2	7.2
Rated torque	Oz-in	425	425	425	850	850
	N.m	3	3	3	6	6
Rated power	W	750	314	942	628	1570
Peak torque	Oz-in	1275	1275	1275	2549	2549
	N.m	9	9	9	18	18
Peak current	A	59	7.5	11.4	14	18.2
Torque constant	Oz-in/A	19.8	25.5	107.6	167.1	107.6
	Nm/A	0.14	1.18	0.76	1.18	0.76
Back E.M.F	V/KRPM	15	125	80.5	125	80.5
Rotor inertia	Kg.c m ²	3	3	3	6	6
Body length	mm	113	113	113	173	173
Voltage range	VDC	24~325	48~325			
Speed Range	rpm	1000~3000				
Weight	Kg	5.6	5.6	5.6	9.2	9.2

- 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