

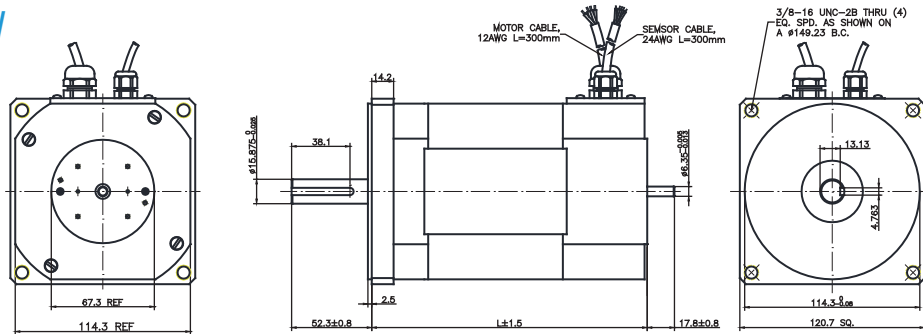
MB120GA BLDC Series Motor



General information

- 4.75 Inch Size.
- Continuous Torque from . 2.03Nm to 6.1Nm
- Speeds up to 6000 rpm
- Voltage Rating up to 325VDC.
- Integrated Hall Effect Commutation..
- 40Kgf Ratial Load Capacity, 12.7mm from Front face.
- Optical Encoders-High Precision, Optional.
- NAMA 56 "Bolt On" Precision Gearheads, Optional.

Mechanical



Performance Data

Catalog Number		MB120GA1XX	MB120GA2XX	MB120GA3XX	MB120GA4XX
Torque Cont. Tcs (Nm/lb-in)		2.03/18	3.39/30	4.75/42	6.1/54
Torque Peak. Tps (Nm/lb-in)		6.1/54	10.17/90	14.24/126	18.3/162
Speed @Vt ω (RPM)		6000	5000	5000	5000
Voltage Terminal Vt (V dc)		325	325	325	325
Current Cont. Ics (A)		16.7	17.40	17.9	20.9
Current Peak. Ips (A)		50.1	52.2	53.8	62.7
Torque Constant Kt	Nm/A	0.152	0.243	0.331	0.365
	lb-in/A	1.35	2.15	2.93	3.23
Voltage Constant Ke (V/KRPM)		15.9	25.5	34.6	38.2
Res. Rt (ohms)		0.22	0.32	0.45	0.45
Inductance L (mH)		1.27	2.06	2.82	2.77
Inertia Jm	kg-cm ²	7.91	12.43	16.95	21.47
	lb-in-s ²	0.007	0.011	0.015	0.019
Weight (Kg/lb)		4.99/11	7.71/17	10.88/24	13.61/30
Lengh (in/mm)		5.68/144.3	7.08/179.8	8.48/215.4	9.88/251

Characteristic diagram

