

MBL120GA

DC Brushless Motor



● General Information

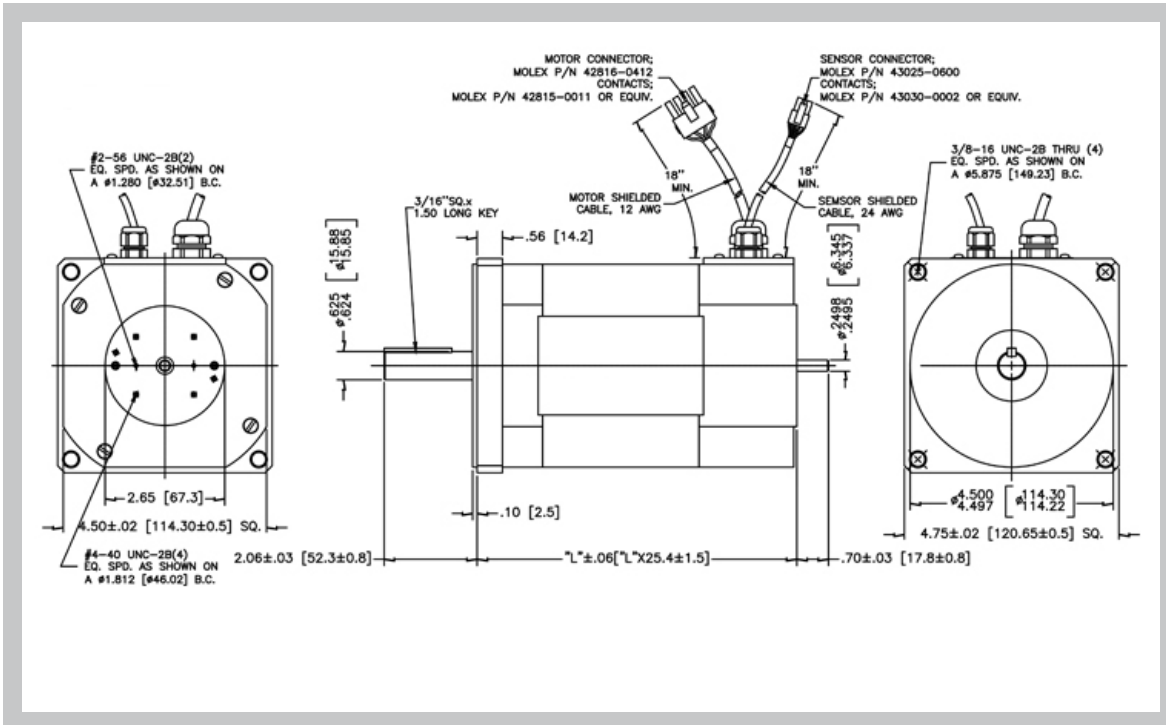
- 4.75 Inch Size
- Integrated hall Effect Commutation
- 40Kgf Ratial Load Capacity; 12.7mm from Front Face
- High Precision, Optical Encoders Available
- NEMA 56 "Bolt On" Precision Gearheads Optional

● Specifications

Specification	MBL120GA1XX	MBL120GA2XX	MBL120GA3XX	MBL120AGA2XX
<i>Continuous Torque (Nm / lb-in)</i>	2.03 / 18	3.39 / 30	4.75 / 42	6.1 / 54
<i>Peak Torque (Nm / lb-in)</i>	6.1 / 54	10.17 / 90	14.24 / 126	18.3 / 162
<i>Speed at Voltage Terminal (RPM)</i>	6000	5000	5000	5000
<i>Voltage Terminal (VDC)</i>	325	325	325	325
<i>Continuous Current (A)</i>	16.7	17.4	17.9	20.9
<i>Peak Current (A)</i>	50.1	52.2	53.8	62.7
<i>Torque Constant (Nm/A / lb-in/A)</i>	0.152 / 1.35	0.243 / 2.15	0.331 / 2.93	0.365 / 3.23
<i>Voltage Constant (V/KRPM)</i>	15.9	25.5	34.6	38.2
<i>Resistance (OHMS)</i>	0.22	0.32	0.45	0.45
<i>Inductance (mH)</i>	1.77	2.06	2.82	2.77
<i>Inertia (Kg.cm² / lb-in²)</i>	7.97 / 0.007	12.43 / 0.011	16.95 / 0.015	21.47 / 0.019
<i>Weight (Kg / lb)</i>	4.99 / 11	7.71 / 17	10.88 / 24	13.61 / 30
<i>Length (mm / in)</i>	144.3 / 5.68	179.8 / 7.08	215.4 / 8.48	251 / 9.88

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● Mechanical



● Characteristic Diagram

