

CM Technology



Key Performance Features:

- 63 to 200 oz-in Continuous Torque
- 12-180 VDC Typical
- 8-Pole Neodymium Magnets Performance
- Dynamically Balanced Rotors
- Stainless Steel Shafts
- RoHS Compliant, CE Certification
- Housing Round or Square

BL238

Brushless Servo Motors

Motor Characteristics

FRAME SIZE	STACK LENGTH	Peak Stall Torque (Tp) oz-in	Cont. Stall Torque (Tc) oz-in	Friction & Cogging Torque (Tf) oz-in	Rotor Inertia (Jm) oz-in-sec ²	Thermal Resistance (Rth) degC/Watt	Max Recom'd Speed RPM	Max Winding Temp C	Elec Time Constant (Te) msec	Power Range W	Weight lb
BL238	- 100	175	63	4.2	0.001	2.5	7000	155	1.7	140	1.4
BL238	- 200	360	120	5.3	0.002	2.0	7000	155	1.9	250	2.4
BL238	- 300	540	180	6.6	0.003	1.5	7000	155	2.1	360	3.4
BL238	- 400	690	200	8.0	0.004	1.1	7000	155	2.2	460	4.3

Sample Windings

Consult CM Tech Application Staff for other available windings

	BL238 - 100				BL238 - 200				BL238 - 300				BL238 - 400			
	E	G	I	K	E	G	I	K	E	G	I	K	E	G	I	K
Torque Constant (Kt) oz-in/amp	8.2	12.4	19.7	31.3	16.3	25.5	40.0	63.2	24.4	38.3	60.7	96.3	33.1	50.3	82.5	130.9
Voltage Constant (Ke) Volts/Krpm	6.0	9.2	14.6	23.3	12.0	18.9	29.6	46.7	18.0	28.3	44.9	71.2	24.5	37.2	61.0	96.8
L-L Resistance (Ra) Ohms (cold)	0.52	1.25	3.12	7.79	0.68	1.69	4.23	10.16	1.07	2.68	6.68	16.68	1.42	2.77	7.16	17.87
Inductance (L-L) mH	0.68	1.66	4.14	10.35	1.35	3.36	8.4	21.17	1.51	3.76	9.40	23.46	2.12	5.45	15.90	39.69
Peak Current (A) Amps	22	14	8.8	5.6	20.5	12.9	8.12	5.13	17.6	12.2	7.85	4.85	18.75	11.8	7.45	4.7

Values as listed based on actual tested results, Application test results may vary, Subject to change

For more options or assistance contact CM Technology with your application needs
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