

MB082GA

DC Brushless Motor



General information

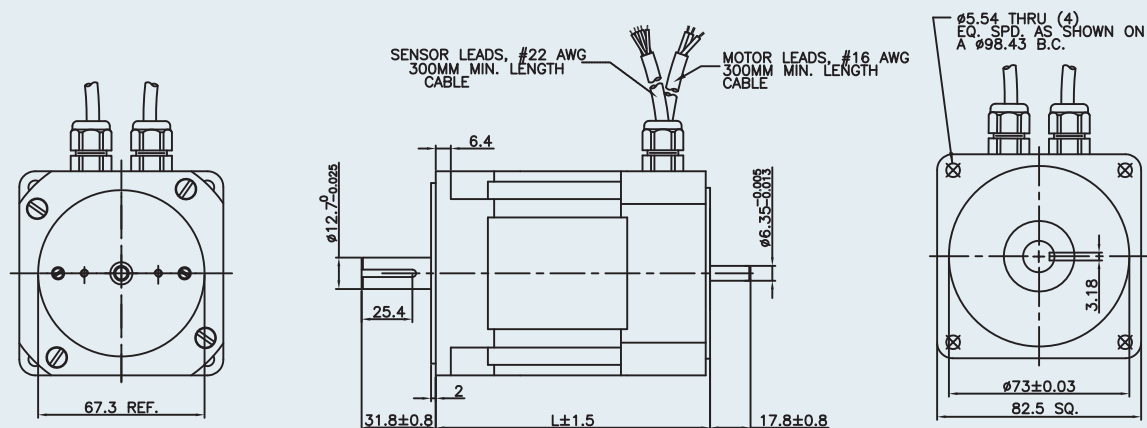
- NEMA 34 frame size
- 8 poles with three phases
- Integrated Hall Effect Commutation
- Insulation class F,
- Bonded Neo Magnet
- UL Certified Structure

Specifications

SPECIFICATION	Unit	MB082GA100	MB082GA200	MB082GA300	MB082GA400	MB082GA500	MB082GA600
Supply Voltage (reference) (Vs)	Vdc	170	170	170	170	170	170
Rated Continuous Torque (Tcr)	Nm	0.60	0.88	1.27	1.51	1.68	2.00
Rated Speed at Cont. Torque (Scr)	rpm	5000	6000	6000	5000	4500	4000
Rated Continuous Stall Current (Ics)	A	3.00	6.7	8.26	11.8	12.1	11.8
Rated Continuous Output Power (Po,c)	W	314	554	798	791	792	840
Rated Peak Torque (Tpr)	Nm	1.91	2.82	3.89	4.59	5.13	6.11
Rated Peak Current (Ipr)	A	9.10	19.8	24.7	35.5	36.3	35.3
Torque Constant (KT)	Nm/A	0.2280	0.1430	0.1576	0.1399	0.1586	0.1882
Voltage constant (KE)	V /krpm	23.90	15.00	16.50	14.64	16.6	19.7
Terminal Resistance (Rmt)	Ω	2.01	0.43	0.37	0.22	0.22	0.35
Inductance (L)	mH	8.46	1.89	1.70	1.06	1.08	1.38
Insulation Class		F	F	F	F	F	F
Rotor Inertia (Jr)	kg m ²	6.78E-05	1.02E-04	1.24E-04	1.58E-04	2.03E-04	2.37E-04
Motor Weight (Wm)	Kg	1.50	2.00	2.50	3.04	3.54	4.08
Motor Length (Lm)	mm	78	90	102	115	128	141

MB082GA

Mechanical



Characteristic diagram

