Mach Motion Products

MBL080AS

DC Brushless Motor

General Information

- 8 Poles with 3 Phases
- 15 Slot Distribution Widing Design for Low Cogging
- 6 Slot for Automatic Winding
- Multiple Lines of Encoder Available
- Sintered Neo Magnet
- Insulation Class B; High Insulation on Request
- Lower Voltage Available

Specifications

Specification	MBL080AS100	MBL080AS200	MBL080AS300
Supply Voltage (VDC)	310	310	310
Rated Continuous Torque (Nm)	1	1.51	2.08
Rated Speed at Cont. Torque (RPM)	3000	3000	3000
Rated Continuous Stall Current (A)	1.87	2.69	3.69
Rated Continuous Output Power (W)	316	474	653
Rated Peak Torque (Nm)	3.04	4.97	6.24
Rated Peak Current (A)	4.73	7.63	9.6
Torque Constant (Nm/A)	0.7033	0.7033	0.7033
Voltage Constant (V/KRPM)	73.61	73.61	73.61
Terminal Resistance (OHMS)	13	8.6	5.3
Inductance (mH)	65	43	37
Insulation Class	B	B	B
Rotor Inertia (Kg.m^2)	6E-05	9E-05	1.2E-04
Weight (Kg)	1.8	2.5	3.2
Length (mm)	111	144	164

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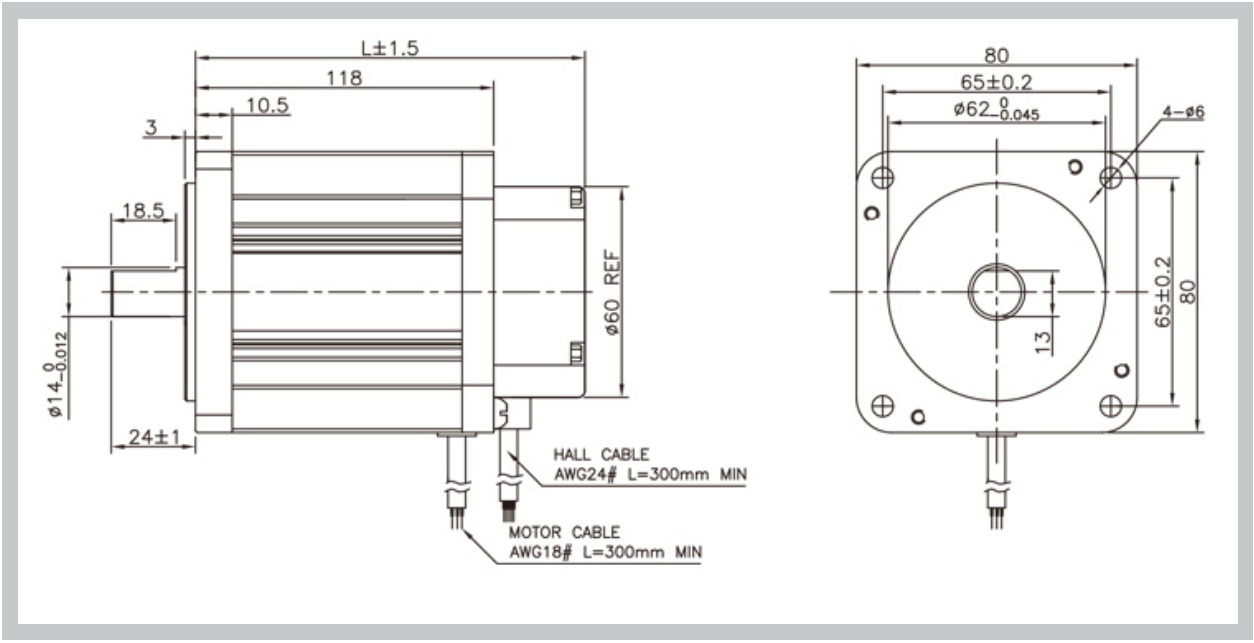
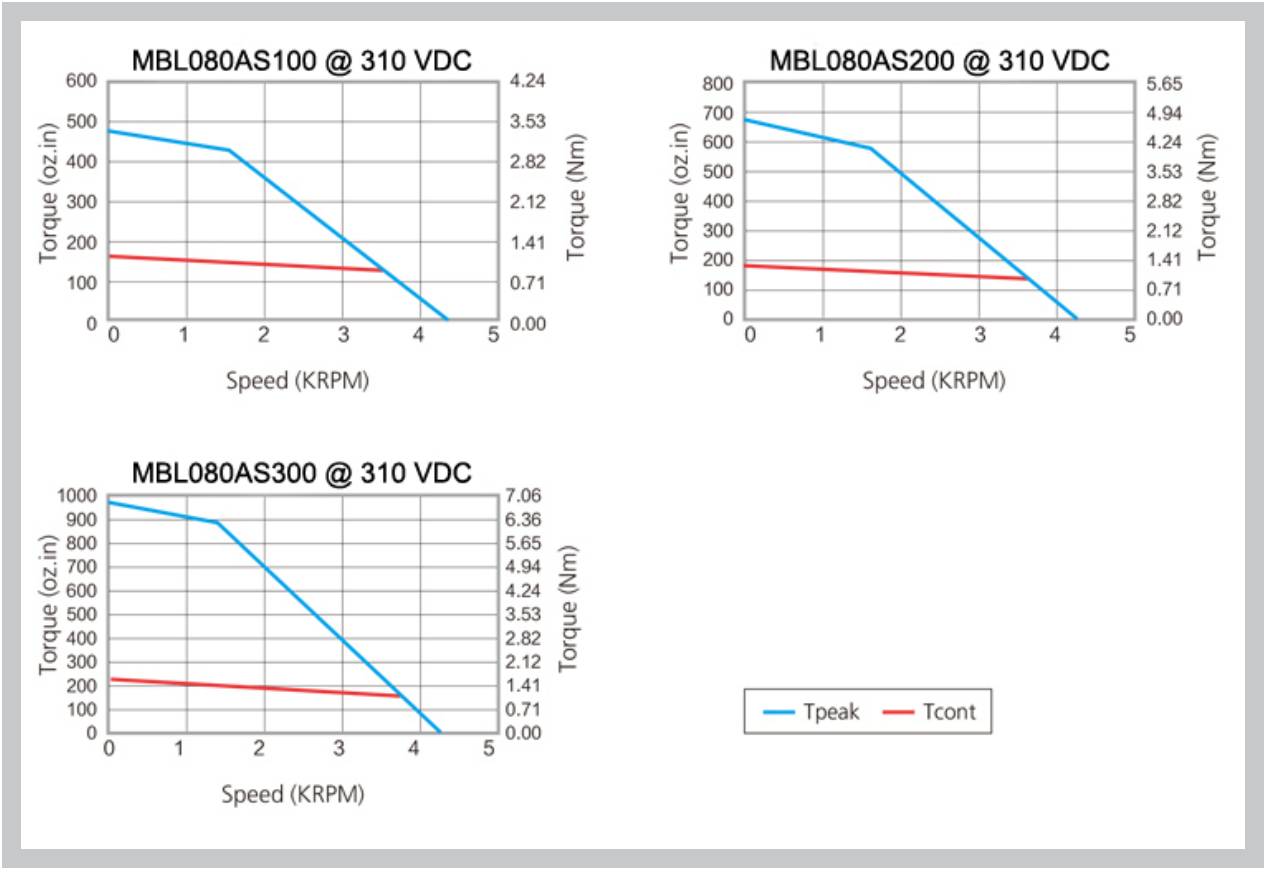
MBL080AS

Mechanical



Characteristic Diagram