

PM030JS Brush DC Motor Series

General Features

- Size 30 mm
- Heavy Gage Steel Housing
- Torques up to 9.00 Oz-in Peak, 3.00 Oz-in continuous
- Speeds up to 10000 RPM
- Voltage rating up to 24 Vdc
- 2 Pole Brush Design
- Class F rated construction

Available Options

- Encoder - IMS Q or EQM35 Series
- Connectors and Matting cables
- Custom Shaft ends
- Custom Winding (Voltage or Current)
- Gearbox - IMS EL32 Series



Technical and Performance Data

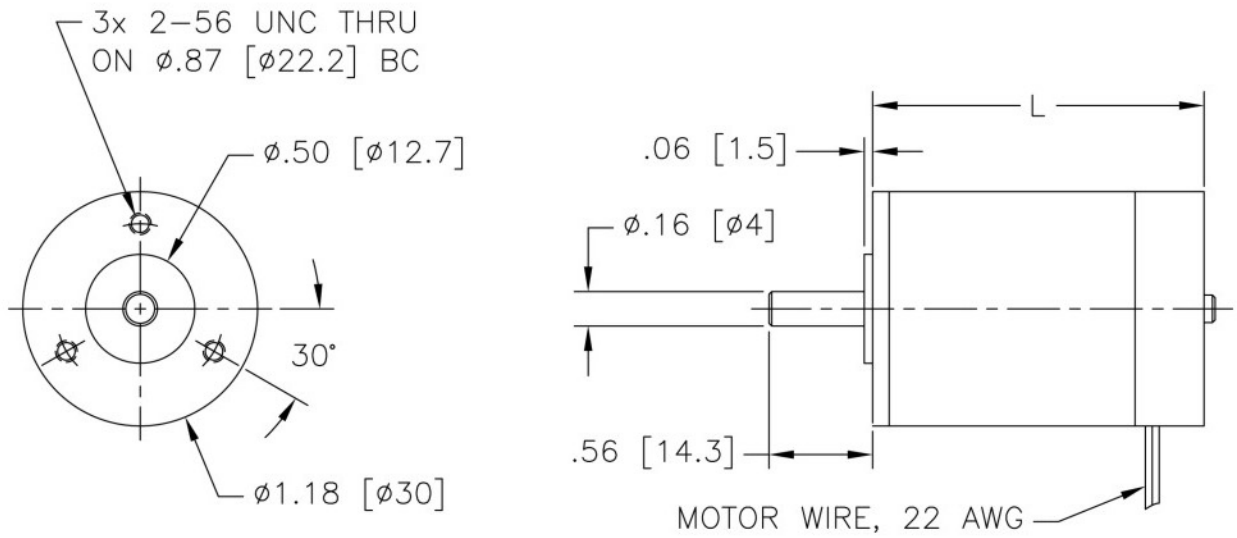
Model Number		PM030JS100	PM030JS200	PM030JS300
General				
Terminal Voltage	Vdc	24.00	24.00	24.00
Continuous Stall Torque	Oz-in	2.11	2.51	3.01
	Nm	0.01	0.02	0.02
Continuous Current (3)	Amps	0.73	0.90	1.29
Peak Stall Torque	Oz-in	4.60	6.62	9.02
	Nm	0.03	0.05	0.06
Peak Current (3)	Amps	1.45	2.14	3.47
Rated Speed @ Terminal Voltage	RPM	5100	5700	8200
Rated Torque @ Rated Speed	Oz-in	1.60	2.00	2.10
	Nm	0.01	0.01	0.01
Rated Output Power @ Rated Speed	Watts	6	8	13
Thermal Resistance	°C/W	24.0	23.0	21.0
Electrical				
Torque Constant (± 10%), (2)	Oz-in/Amp	3.87	3.73	3.09
	Nm/Amp	0.0274	0.0263	0.0218
Voltage Constant (± 10%), (2)	V/KRPM	2.87	2.76	2.29
	V s/rad	0.0274	0.0263	0.0218
Resistance (± 15%), (2)	Ohms	12.10	8.24	4.33
Inductance (± 15%), (2)	mH	6.27	4.57	2.34
Mechanical				
Inertia	Oz-In-Sec ²	0.000140	0.000170	0.000230
	kg m ²	9.89E-07	1.20E-06	1.62E-06
Maximum Speed (1)	RPM	7800	8200	10000
Weight	Oz	4.6	5.0	5.8
	gm	130.00	143.00	165.00
Length	Inch	2.07	2.19	2.44
	mm	52.58	55.75	62.10

(1) Maximum Speed can be limited by bus voltage and feedback types

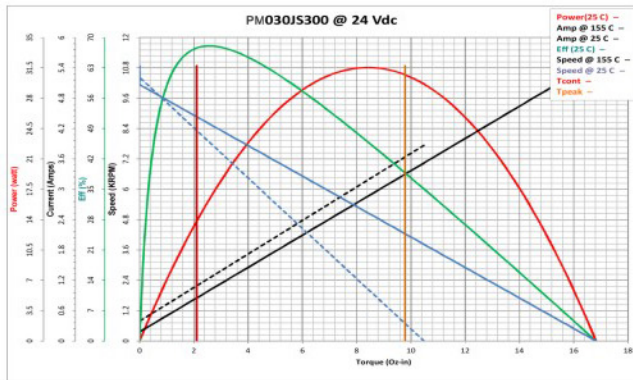
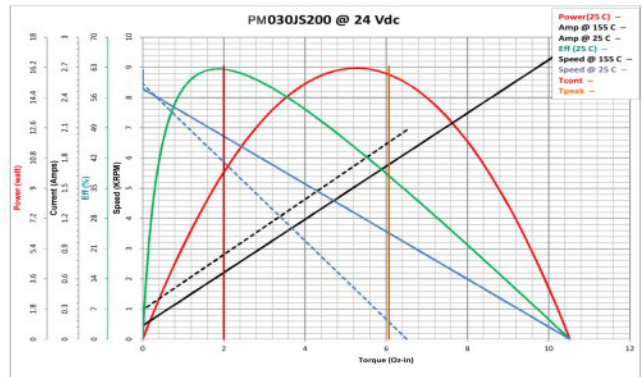
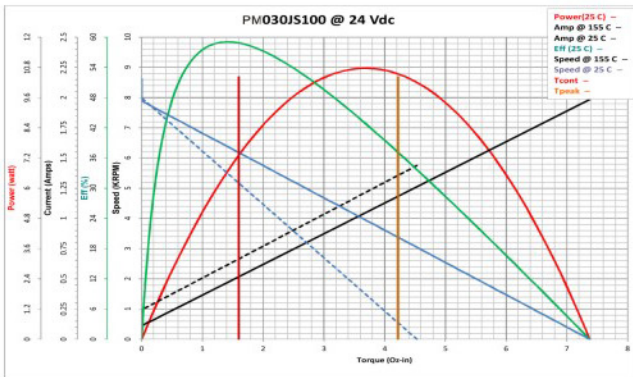
(2) Measure values at 20 °C

(3) Current values are at maximum allowable winding temperature 125 °C

Outline Drawing and Dimensional Data



Performance Curves



* Motor performance curves may vary with the drive technology used

** Motor performance curves may vary based upon the quality of the input voltage