

DC060AS Brushless Motor Series

General Features

- 60 mm square Frame Sizes
- Torques up to 352.00 Oz-in Peak, 117.00 Oz-in continuous
- Speeds up to 4200 RPM
- Voltage rating up to 24 Vdc
- Integrated Hall Effect Commutation
- Class B rated construction
- RoHS and CE compliant

Available Options

- Encoder - IMS Q or EQM35 Series
- Connectors and Matting cables
- Custom Shaft ends
- Custom Winding (Voltage or Current)
- Gearbox - IMS EL60 Series



Technical and Performance Data

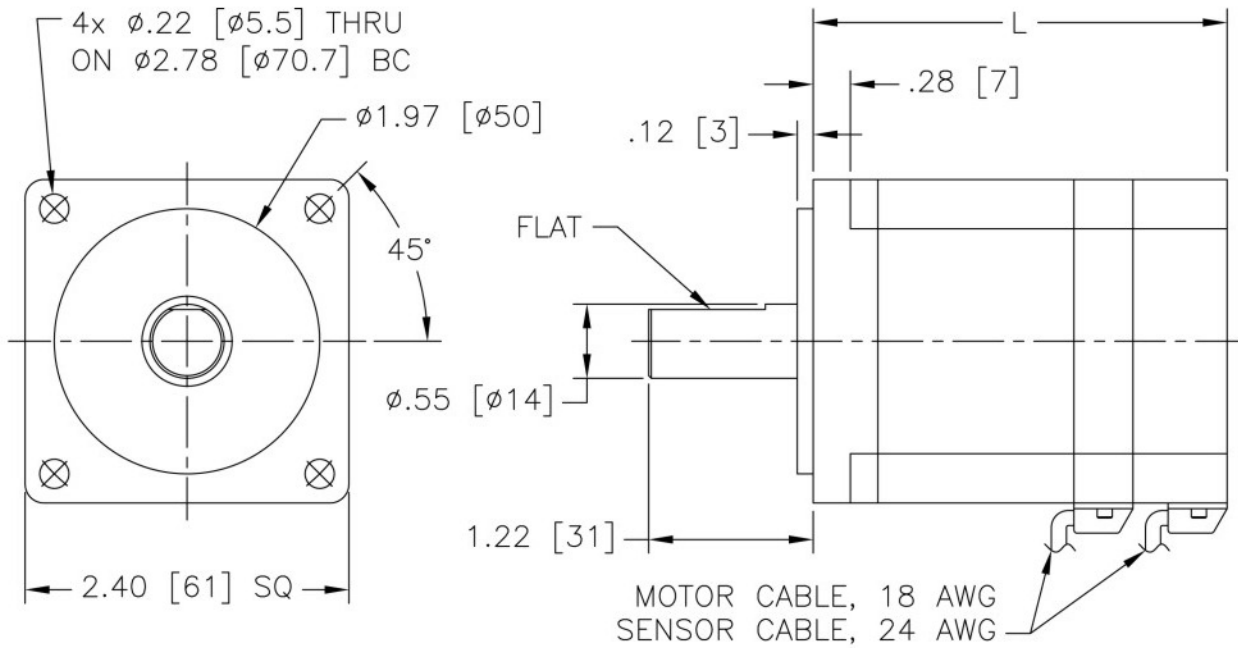
Model Number		DC060AS100	DC060AS200	DC060AS300	
General					
Maximum Terminal Voltage	Vdc	24.00	24.00	24.00	
Continuous Stall Torque	Oz-in	60.60	86.67	117.35	
	Nm	0.43	0.61	0.83	
Continuous Current (3)	Amps	10.38	13.73	18.62	
Peak Stall Torque	Oz-in	181.79	260.00	352.04	
	Nm	1.28	1.84	2.49	
Peak Current (3)	Amps	28.19	39.19	53.11	
12 Vdc Bus Rating	Rated Speed	RPM	900	1000	
	Rated Torque @ Rated Speed	Oz-in	39.00	57.00	76.00
		Nm	0.28	0.40	0.54
	Rated Output Power @ Rated Speed	Watts	26	42	56
Maximum Speed (1)	RPM	2000	2100	2150	
24 Vdc Bus Rating	Rated Speed	RPM	3000	3000	3000
	Rated Torque @ Rated Speed	Oz-in	29.00	70.00	84.00
		Nm	0.20	0.49	0.59
	Rated Output Power @ Rated Speed	Watts	64	155	186
Maximum Speed (1)	RPM	4100	4200	4200	
Thermal Resistance	°C/W	2.5	2.5	2.5	
Electrical					
Torque Constant (± 10%), (2)	Oz-in/Amp	7.59	7.59	7.59	
	Nm/Amp	0.0536	0.0536	0.0536	
Voltage Constant (± 10%), (2)	V/KRPM	5.64	5.64	5.64	
	V s/rad	0.0536	0.0536	0.0536	
Resistance (± 15%), (2)	Ohms	0.45	0.22	0.12	
Inductance (± 15%), (2)	mH	0.55	0.29	0.14	
Mechanical					
Inertia	Oz-In-Sec ²	0.006370	0.012037	0.024074	
	kg m ²	4.50E-05	8.50E-05	1.70E-04	
Weight	Oz	30.0	52.9	60.0	
	gm	850.00	1500.00	1700.00	
Length (L)	Inch	3.07	3.90	4.72	
	mm	78.00	99.00	120.00	

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

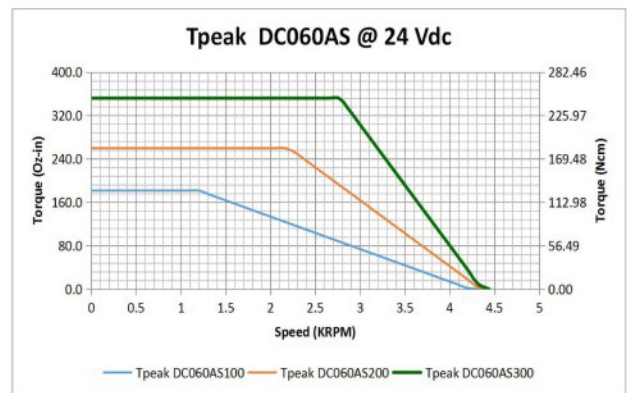
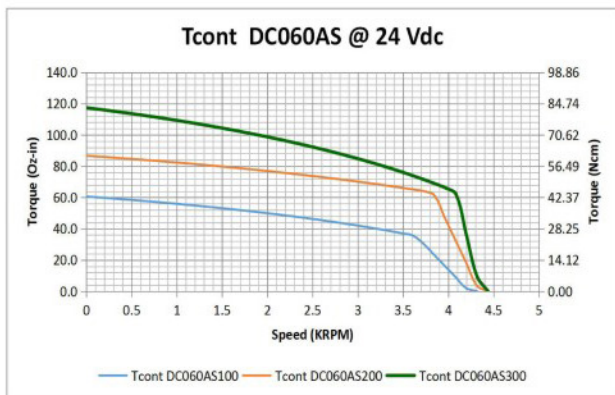
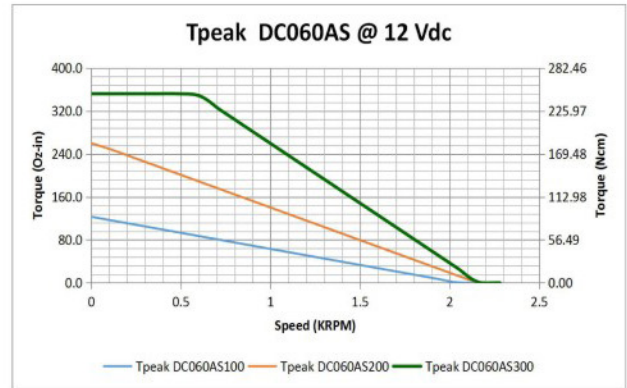
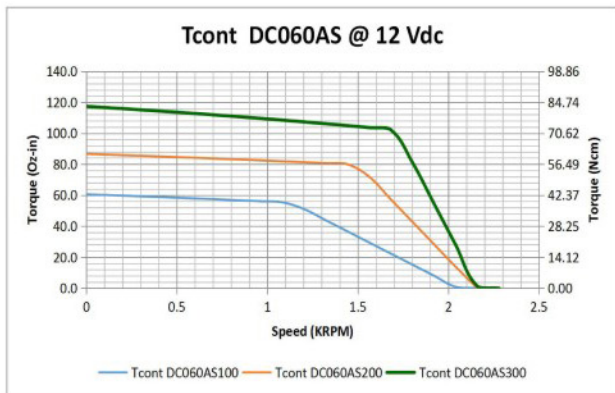
(2) Measure values at 20 °C

(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