

## DC043AS Brushless Motor Series

### General Features

- 43 mm round Frame Sizes
- Torques up to 36.00 Oz-in Peak, 12.00 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 EQM35 Series
- Connectors and Matting cables
- Custom Shaft ends
- Custom Winding (Voltage or Current)



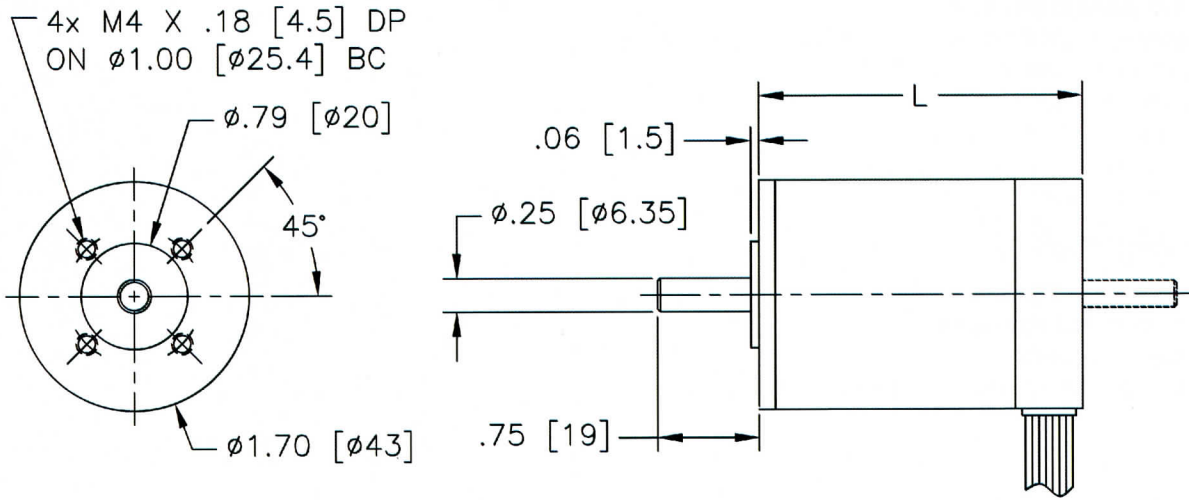
### Technical and Performance Data

Model Number		DC043AS200	DC043AS300	
<b>General</b>				
Maximum Terminal Voltage	Vdc	24.00	24.00	
Continuous Stall Torque	Oz-in	6.32	12.28	
	Nm	0.04	0.09	
Continuous Current (3)	Amps	1.11	1.99	
Peak Stall Torque	Oz-in	11.88	36.84	
	Nm	0.08	0.26	
Peak Current (3)	Amps	1.95	5.65	
24 Vdc Bus Rating	Rated Speed	RPM	1800	2800
	Rated Torque @ Rated Speed	Oz-in	5.10	11.20
		Nm	0.04	0.08
	Rated Output Power @ Rated Speed	Watts	7	23
	Maximum Speed (1)	RPM	4100	4200
Thermal Resistance	° C/W	10.0	8.0	
<b>Electrical</b>				
Torque Constant (± 10%), (2)	Oz-in/Amp	7.36	7.49	
	Nm/Amp	0.0520	0.0529	
Voltage Constant (± 10%), (2)	V/KRPM	5.47	5.57	
	V s/rad	0.0520	0.0529	
Resistance (± 15%), (2)	Ohms	9.74	3.34	
Inductance (± 15%), (2)	mH	2.66	1.13	
<b>Mechanical</b>				
Inertia	Oz-In-Sec <sup>2</sup>	0.00000793	0.000016002	
	kg m <sup>2</sup>	5.60E-08	1.13E-07	
Weight	Oz	8.2	12.5	
	gm	232.50	354.40	
Length (L)	Inch	1.87	2.61	
	mm	47.40	66.40	

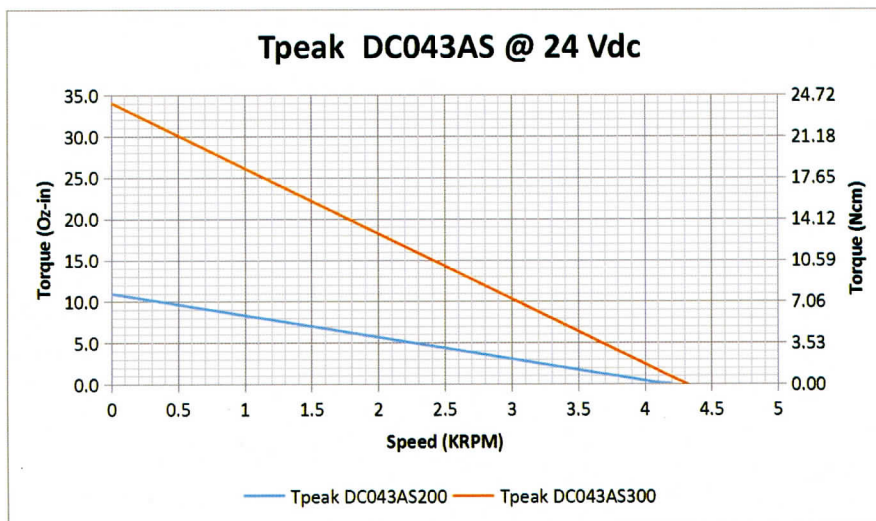
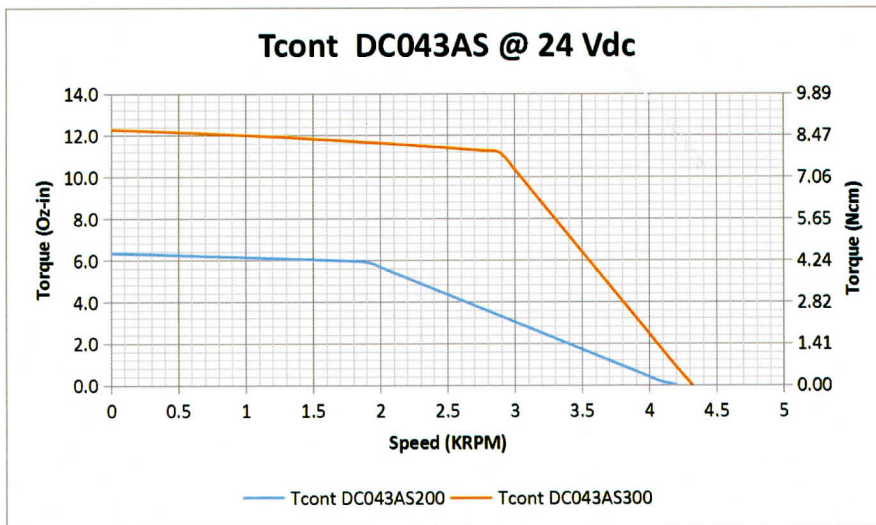
(1) Maximum Speed can be limited by bus voltage and feedback types  
 (3) Current values are at maximum allowable winding temperature 125 °C

(2) Measure values at 20 °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