

Motor Assembly Data for: DC040B-5 (4.80 V/krpm)

Voltage Constant	K_E	0.0458	V/rad/s
		4.8	V/krpm
Torque Constant	K_T	0.0458	Nm/A
		6.49	oz-in/A
Rated Voltage	V_r	24	VDC
Rated Torque ^{1,3}	T_r	0.5	Nm
		70.7	oz-in
Rated Speed ^{1,3}	ω_r	366	rpm
Rated Current ^{1,3}	I_r	1.60	A
Rated Power ^{1,3}	P_r	19	W
No-Load Speed ²	ω_{nl}	417	rpm
No-Load Current ²	I_{nl}	0.20	A
Resistance (L-L)	R_{mt}	2.49	Ohms
Inductance (L-L)	L	2.63	mH
Rotor Inertia	J_r	0.0000071	kg-m ²
		0.001	oz-in-sec ²
Max Winding Temp	θ_{max}	155	°C
Hall Sensor Spacing		TBD (60 or 120)	°Elec
Poles		2	
Winding Configuration		N/A	
Direction of Rotation		Elec. Rev.	lead end
Weight	w_m	560	g
		20	oz

¹ Recorded at maximum winding temperature at 25 deg C ambient and without heat sink.

² Recorded at Rated Voltage.

³ Based on thermal limitations of motor only. See Maximum Speed and Gearbox Rated Torque if applicable for possible additional limitations.

Gearbox Data for: G51B (11.5:1)

Rated Torque	2.1	Nm
	300	oz-in
Gear Ratio	11.5	
Efficiency	0.81	

Encoder Data for: None

Rated Voltage	N/A	VDC
Resolution	N/A	CPR
Output Channels	N/A	
Output Type	N/A	

Brake Data for: None

Rated Voltage	N/A	VDC
Rated Torque	N/A	Nm
	N/A	oz-in

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