

**Motor Assembly Data for: DC040A-2 ( 4.14 V/krpm)**

Voltage Constant	$K_E$	0.0395	V/rad/s
		4.14	V/krpm
Torque Constant	$K_T$	0.0395	Nm/A
		5.6	oz-in/A
Rated Voltage	$V_r$	24	VDC
Rated Torque <sup>1,3</sup>	$T_r$	0.76	Nm
		107.5	oz-in
Rated Speed <sup>1,3</sup>	$\omega_r$	64	rpm
Rated Current <sup>1,3</sup>	$I_r$	0.70	A
Rated Power <sup>1,3</sup>	$P_r$	5	W
No-Load Speed <sup>2</sup>	$\omega_{nl}$	82	rpm
No-Load Current <sup>2</sup>	$I_{nl}$	0.14	A
Resistance (L-L)	$R_{mt}$	8.33	Ohms
Inductance (L-L)	L	6.17	mH
Rotor Inertia	$J_r$	0.0000028	kg-m <sup>2</sup>
		0.00039	oz-in-sec <sup>2</sup>
Max Winding Temp	$\theta_{max}$	155	°C
Hall Sensor Spacing		TBD (60 or 120)	°Elec
Poles		2	
Winding Configuration		N/A	
Direction of Rotation		Elec. Rev.	lead end
Weight	$w_m$	440	g
		16	oz

<sup>1</sup> Recorded at maximum winding temperature at 25 deg C ambient and without heat sink.

<sup>2</sup> Recorded at Rated Voltage.

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

**Gearbox Data for: G51A (65.5:1)**

Rated Torque	1.2	Nm
	175	oz-in
Gear Ratio	65.5	
Efficiency	0.66	

**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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