

MOTOR 23004

131W

- Designed with low Ke's to accommodate low bus voltage applications
- Voltage rating up to 60 Vdc
- TENV and IP40 environmental construction
- Dynamically balanced armatures
- Compact, optical encoders (optional)
- External NEMA 23 24Vdc holding brake (optional)
- Precision servo and power transmission gearing (optional)



Ratings	Symbol		Units
Continuous Stall Torque	Tcs	0.354 (3.13)	Nm (lb-in)
Peak Stall Torque	Tps	2.472 21.88	Nm (lb-in)
No Load Max. Speed	ω_{nl}	6000	RPM
Continuous Rated Torque	Tcr	0.305 (2.70)	Nm (lb-in)
Peak Rated Torque	Tpr	0.610 (5.40)	Nm (lb-in)
Rated Speed	ω_{rated}	4100	RPM
Rated Power	W (HP)	131 (0.18)	Watts (HP)
Inductance L-L	L	5.20	mH
Resistance L-L	R	2.03	ohms
Max. Terminal Voltage	V dc	60	Vdc
WINDING			
SINUSOIDAL AC VALUES			
Current at Cont. Stall Torque, o-p	A rms	0.00	Amp
Current at Peak Torque, o-p	A peak	0.00	Amp
Torque Constant L-L	Kt rms	0.000 (0.00)	Nm/A rms (lb-in/A)
Voltage Constant L-L	Ke rms	0.00 (0.00)	V/rad/sec (V/kRPM)
TRAPEZOIDAL DC VALUES			
Current at Cont. Stall Torque, o-p	A dc	4.22	Amp
Current at Peak Torque, o-p	A dc	26.10	Amp
Torque Constant L-L	Kt dc	0.105 (0.93)	Nm/A (lb-in/A)
Voltage Constant L-L	Ke dc	0.105 (11.00)	V/rad/sec (V/kRPM)
MECHANICAL			
Max. Axial Shaft Load	Fa	22.24 (5.00)	N (lb)
Max. Radial Shift Load	Fr	44.48 (10.00)	N (lb)
Motor Constant, L-L Trapezoidal	Km	0.07 (0.60)	Nm/ \sqrt{w} (lb-in/ \sqrt{w})
Motor Inertia	Jm	0.00004379 (0.0003875)	Kg-m ² (lb-in-s ²)
Motor Weight		1.406 (3.10)	Kg (lb)
Thermal Resistance	Rth	2.39	°C/Watt
Thermal Time Constant	TTC	17.00	min
Max. Winding Temperature	Tw	155	°C

