

MOTOR 33003

371W

- Designed with low and medium Kev's to accommodate low and medium bus voltage applications
- Voltage rating up to 90 Vdc
- TENV and IP40 environmental construction
- Dynamically balanced armatures
- Compact, optical encoders (optional)
- External NEMA 34 24Vdc holding brake (optional)
- Precision servo gearing (optional)



Ratings	Symbol		Units
Continuous Stall Torque	Tcs	1.198 (10.60)	Nm (lb-in)
Peak Stall Torque	Tps	6.000 53.10	Nm (lb-in)
No Load Max. Speed	ω_{nl}	6000	RPM
Continuous Rated Torque	Tcr	0.805 (7.12)	Nm (lb-in)
Peak Rated Torque	Tpr	1.610 (14.25)	Nm (lb-in)
Rated Speed	ω_{rated}	4400	RPM
Rated Power	W (HP)	371 (0.50)	Watts (HP)
Inductance L-L	L	2.35	mH
Resistance L-L	R	0.69	ohms
Max. Terminal Voltage	V dc	90	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	8.41	Amp
Current at Peak Torque, o-p	A dc	38.00	Amp
Torque Constant L-L	Kt dc	0.175 (1.55)	Nm/A (lb-in/A)
Voltage Constant L-L	Ke dc	0.176 (18.40)	V/rad/sec (V/kRPM)
MECHANICAL			
Max. Axial Shaft Load	Fa	44.48 (10.00)	N (lb)
Max. Radial Shift Load	Fr	133.45 (30.00)	N (lb)
Motor Constant, L-L Trapezoidal	Km	0.13 (1.17)	Nm/ \sqrt{w} (lb-in/ \sqrt{w})
Motor Inertia	Jm	0.00033900 (0.0030000)	Kg-m ² (lb-in-s ²)
Motor Weight		3.992 (8.80)	Kg (lb)
Thermal Resistance	Rth	1.77	°C/Watt
Thermal Time Constant	TTC	25.00	min
Max. Winding Temperature	Tw	155	°C

