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DANAHER MOTION

Application Note

Group	Motors	Date	2/21/2005
Series	T	Revised	12/20/2007
Element Group	Specifications	Revision	3
Element	Electrical and Mechanical	Author	J. Coleman
		# Of Pages	6

T-Series Stepper Motor Specifications

Languages	Target Group	Status	Usage	International Restrictions checked = allowed to view
☑ English	☑ Basic	☐ In Process	☐ Internal	☑ Citizens/Nationals of U.S.A.
☐ German	☐ Normal	☑ Completed	☑ Public	Non-Restricted Countries, End
☐	☐ Specialist			☑ Uses, and End Users (www.bis.doc.gov)

About the Content:

This document contains electrical and mechanical specifications for the T-Series IDC motors.

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Introduction

Electrical and Mechanical specifications are provided for the following motors: T22T, T22V, T31T, T31V, T32T, T32V, T41T, T41V

Note: T for Series Winding; V for Parallel Winding. Differences between the T and V windings are listed in the V column.

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T22	T22T	T22V
ELECTRICAL SPECIFICATIONS		
Continuous Stall Torque, oz-in (N-m)	280 (1.98)	
Recommended Current/Phase, Amps	0.77	1.5
Winding Resistance @ Ambient,Ohms	11.5	2.9
Inductance, mH	65.5	17
Max. Winding Temperature, °F (°C)	212 (100)	
MECHANICAL SPECIFICATIONS		
Rotor Inertia, oz-in-s2 (kg-m2)	0.0056 (0.0408 x 10-3)	
Axial Shaft Load, lbs (N)	10 (44)	
Radial Shaft Load, lbs (N)	15 (66)	
Motor Weight, lbs (kg)	2.7 (1.23)	
Step Angle (Full Step) degrees	1.8	
Bolt Circle Diameter, inches	2.625	
Shaft Length, inches (mm)	0.81 (20.57)	
Shaft Diameter, inches (mm)	0.25 (6.35)	
Shaft Feature	Flat	

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T31	T31T	T31V
ELECTRICAL SPECIFICATIONS		
Continuous Stall Torque, oz-in (N-m)	450 (3.2)	
Recommended Current/Phase, Amps	1.4	2.8
Winding Resistance @ Ambient,Ohms	6.21	1.55
Inductance, mH	50.1	12.5
Max. Winding Temperature, °F (°C)	212 (100)	
MECHANICAL SPECIFICATIONS		
Rotor Inertia, oz-in-s2 (kg-m2)	0.0202 (0.14 x 10-3)	
Axial Shaft Load, lbs (N)	305 (1355)	
Radial Shaft Load, lbs (N)	65 (285)	
Motor Weight, lbs (kg)	5 (2.27)	
Step Angle (Full Step), degrees	1.8	
Bolt Circle Diameter, inches	3.875	
Shaft Length, inches (mm)	1.25 (31.75)	
Shaft Diameter, inches (mm)	0.375 (9.53)	
Shaft Feature	Flat	

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T32	T32T	T32V
ELECTRICAL SPECIFICATIONS		
Continuous Stall Torque, oz-in (N-m)	920 (6.5)	
Recommended Current/Phase, Amps	1.6	3.2
Winding Resistance @ Ambient,Ohms	6.44	1.61
Inductance, mH	69	17
Max. Winding Temperature, °F (°C)	212 (100)	
MECHANICAL SPECIFICATIONS		
Rotor Inertia, oz-in-s2 (kg-m2)	0.038 (2.7 x 10-4)	
Axial Shaft Load, lbs (N)	305 (1355)	
Radial Shaft Load, lbs (N)	65 (285)	
Motor Weight, lbs (kg)	8.4 (3.81)	
Step Angle (Full Step), degrees	1.8	
Bolt Circle Diameter, inches	3.875	
Shaft Length, inches (mm)	1.25 (31.75)	
Shaft Diameter, inches (mm)	0.500 (12.70)	
Shaft Feature	1/8" Square Key	

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T41	T41T	T41V
ELECTRICAL SPECIFICATIONS		
Continuous Stall Torque, oz-in (N-m)	1250 (8.8)	
Recommended Current/Phase, Amps	2.8	5.6
Winding Resistance @ Ambient,Ohms	2.21	0.55
Inductance, mH	36	9.1
Max. Winding Temperature, °F (°C)	212 (100)	
MECHANICAL SPECIFICATIONS		
Rotor Inertia, oz-in-s2 (kg-m2)	0.0783 (5.5 x 10-4)	
Axial Shaft Load, lbs (N)	404 (1790)	
Radial Shaft Load, lbs (N)	125 (550)	
Motor Weight, lbs (kg)	11 (5)	
Step Angle (Full Step), degrees	1.8	
Bolt Circle Diameter, inches	4.95	
Shaft Length, inches (mm)	1.88 (47.75)	
Shaft Diameter, inches (mm)	0.625 (15.88)	
Shaft Feature	3/16" Square Key	

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