Customer Copy

Grainger 3XE22D

TYPICAL MOTOR PERFORMANCE DATA

M2005 OPERATED ON 90 VOLTS D.C.

MOTOR DATA

TORQUE	SPEED	CURRENT	HP	EFF
0.0	2066	.08	.000	.00
5.0	2000	.17	.010	49.50
10.0	1934	.25	.019	62.73
15.0	1868	.34	.028	67.59
20.0	1802	.43	.036	69.20
25.0	1737	.51	.043	69.21
30.0	1671	.60	.050	68.33
35.0	1605	.69	.056	66.88
40.0	1539	.78	.061	65.06
21.0	1789	.44	.037	69.30

(PRIMARY LOAD POINT)

21.5	1782	.45	.038	69.33

(CONTINUOUS DUTY RATING - FORMFACTOR = 1.30)

Stall Torque = 156.91 In-Oz (For Reference Only)
Stall Current = 2.82 Amps (For Reference Only)

MOTOR DESIGN DATA and CONSTANTS

WINDING - T/C :
C/S :
GA :
BARS :
FILL :

Ke = 42.3545 V/Krpm +/- 10.0 %
Kt = 57.3056 In-Oz/Amp +/- 10.0 %
Ra = 31.3270 Ohms +/- 7.5 %
Rt = 31.9536 Ohms +/- 12.5 %

Friction Torque (Nom) = 4.5000 In-Oz
Friction Torque (Max) = 7.0000 In-Oz
Ja (Inertia) = .0081 In-Oz-Sec2
La (Inductance) = 85.1773 MHenry
Te (Elec Time Const) = 2.6657 MSec
Tm (Mech Time Const) = 11.2084 MSec
Theoretical Accel at Stall = 19300 Rads/Sec2
Bandwidth = 14.20 Hz

ENGINEERING APPROVAL :

DATE :