Vented **127** Volts DC 2 Poles

MET PMDC Motor Design

DC Motor Designer (4-11-08)
Printed: 7/15/2008

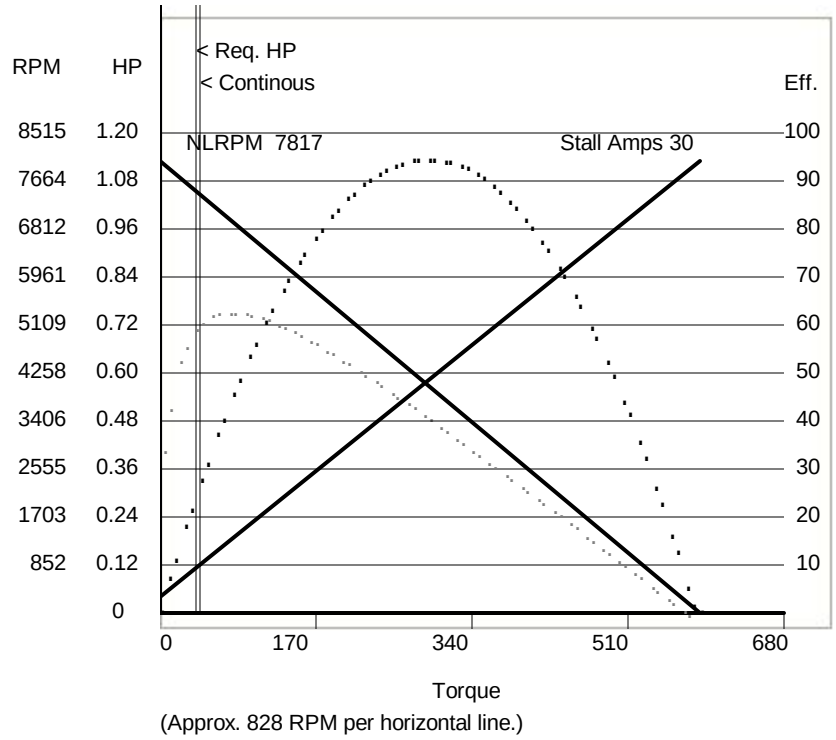
Customer: **Typical Performance Ref (web)** Model: **3A-C017751-ww1** Rev: **-** Designed by: **Kyle Larson**
Dwg #:

COLD

Magnet: **22** deg C Copper: **22** deg C

Stall Current: **30** Stall Torque: **588** Oz-in KT: **19.66** Oz-In/Amps KE: **16.11** Volts/KRPM Resistance: **3.8126** Ohms

HP	Torque	Speed	Amps	Eff	Duty
NL	0	7817	0.7	0	CONT.
0.03	4	7707	.9	20.6	2.3
0.05	6	7681	1.0	27.6	2.1
0.06	8	7654	1.1	33.3	1.9
0.08	10	7627	1.2	37.9	1.7
0.09	12	7601	1.3	41.8	1.6
0.11	14	7573	1.4	45.1	1.5
0.12	16	7546	1.5	47.9	1.4
0.14	18	7519	1.6	50.3	1.3
0.15	20	7491	1.7	52.3	1.2
0.17	22	7463	1.8	54.1	1.1
0.18	24	7435	1.9	55.7	1.1
0.20	27	7407	2.0	57.1	59 MIN.
0.21	29	7378	2.1	58.3	53 MIN.
0.23	31	7349	2.2	59.4	48 MIN.
0.24	33	7320	2.3	60.3	44 MIN.
0.26	35	7291	2.5	61.1	40 MIN.
0.27	37	7261	2.6	61.9	36 MIN.
0.29	40	7232	2.7	62.5	33 MIN.
0.30	**42**	**7202**	**2.8**	**63.1**	**30 MIN.**



(Approx. 828 RPM per horizontal line.)

HOT

Magnet: **50** deg C Copper: **80** deg C

Stall Current: **26** Stall Torque: **474** Oz-in KT: **18.61** Oz-In/Amps KE: **15.25** Volts/KRPM Resistance: **4.6684** Ohms

HP	Torque	Speed	Amps	Eff
NL	0	8272	0.7	0
0.03	4	8128	.9	19.4
0.05	6	8095	1.0	26.2
0.06	8	8062	1.1	31.7
0.08	9	8029	1.2	36.3
0.09	11	7995	1.3	40.1
0.11	13	7961	1.4	43.4
0.12	15	7927	1.5	46.1
0.14	17	7892	1.6	48.5
0.15	19	7857	1.7	50.6
0.17	21	7822	1.9	52.4
0.18	23	7786	2.0	53.9
0.20	25	7750	2.1	55.3
0.21	27	7714	2.2	56.5
0.23	30	7677	2.3	57.6
0.24	32	7640	2.4	58.5
0.26	34	7603	2.5	59.3
0.27	36	7565	2.6	60.0
0.29	38	7527	2.8	60.7
0.30	**40**	**7488**	**2.9**	**61.2**

Notes:

calc with 20% demag and 6ft of 16 ga lead wire

Caution: **Inrush currents greater than 19 Amps may weaken motor performance. A current limit control is recommended.**

EC 22/26 B H76 323-87624-31 Ext 32X-3 S 1.25 F 0.536000022888183 HA 5456 FM 3.22/3.03 DM 19.2

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