TE **24** Volts DC 2 Poles

MET PMDC Motor Design

DC Motor Designer (9/18/08)

Printed: 12/15/2008

Customer: **Typical Performance Ref (web)** Model: **3K-2438472-ww1** Rev: **B** Designed by: **Kyle Larson**

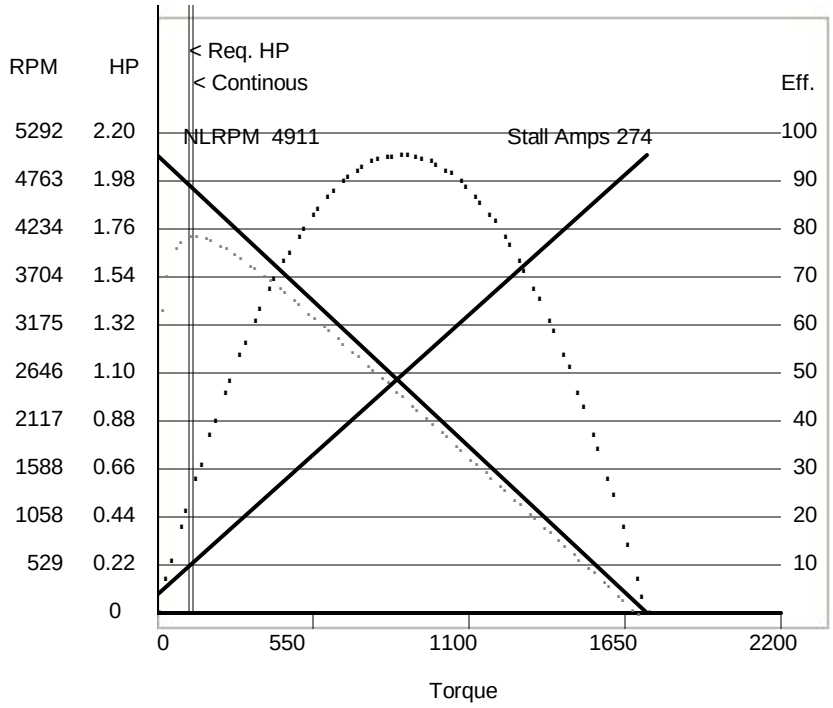
Dwg #:

COLD

Magnet: **30** deg C Copper: **30** deg C

Stall Current: **271** Stall Torque: **1728** Oz-in KT: **6.34** Oz-In/Amps KE: **5.20** Volts/KRPM Resistance: **.0758** Ohms

HP	Torque	Speed	Amps	Eff	Duty
NL	0	4911	2.1	0	CONT.
0.05	11	4870	3.6	46.2	4.4
0.08	17	4854	4.5	55.6	3.5
0.11	23	4837	5.4	61.9	2.9
0.14	28	4821	6.3	66.3	2.5
0.16	34	4805	7.2	69.6	2.2
0.19	40	4788	8.1	72.1	2.
0.22	46	4772	9.1	74.0	1.8
0.24	52	4755	10.0	75.5	1.6
0.27	57	4738	10.9	76.8	1.5
0.30	63	4721	11.9	77.7	1.3
0.32	69	4704	12.8	78.5	1.2
0.35	75	4687	13.8	79.2	1.2
0.38	82	4669	14.7	79.7	1.1
0.41	88	4652	15.7	80.1	1.
0.43	94	4634	16.7	80.4	54 MIN.
0.46	100	4616	17.7	80.7	48 MIN.
0.49	107	4598	18.7	80.9	43 MIN.
0.51	113	4580	19.7	81.0	39 MIN.
0.54	**119**	**4562**	**20.7**	**81.1**	**35 MIN.**



(Approx. 515 RPM per horizontal line.)

HOT

Magnet: **80** deg C Copper: **100** deg C

Stall Current: **221** Stall Torque: **1275** Oz-in KT: **5.72** Oz-In/Amps KE: **4.69** Volts/KRPM Resistance: **0.0958** Ohms

HP	Torque	Speed	Amps	Eff
NL	0	5435	2.1	0
0.05	10	5377	3.9	42.9
0.08	15	5355	4.8	52.4
0.11	20	5333	5.7	58.8
0.14	26	5311	6.6	63.4
0.16	31	5288	7.5	66.8
0.19	36	5266	8.5	69.4
0.22	42	5243	9.4	71.5
0.24	47	5220	10.3	73.1
0.27	52	5197	11.3	74.3
0.30	58	5173	12.3	75.4
0.32	63	5149	13.2	76.2
0.35	69	5125	14.2	76.8
0.38	75	5101	15.2	77.4
0.41	80	5077	16.2	77.8
0.43	86	5052	17.2	78.1
0.46	92	5027	18.2	78.3
0.49	98	5002	19.2	78.5
0.51	104	4977	20.3	78.6
0.54	**110**	**4951**	**21.3**	**78.6**

Notes:

Performance specs provided are computer calculated values from MET's in-house motor design program. The data represents general performance characteristics the motor design typically produces. Data is subject to change without notice.

EC 6/15.5 B 682 323-00012-01 Int 16-3 S 2.6 F 0.8671875 HA 4436 FM 1.67/1.50 DM 301.2

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