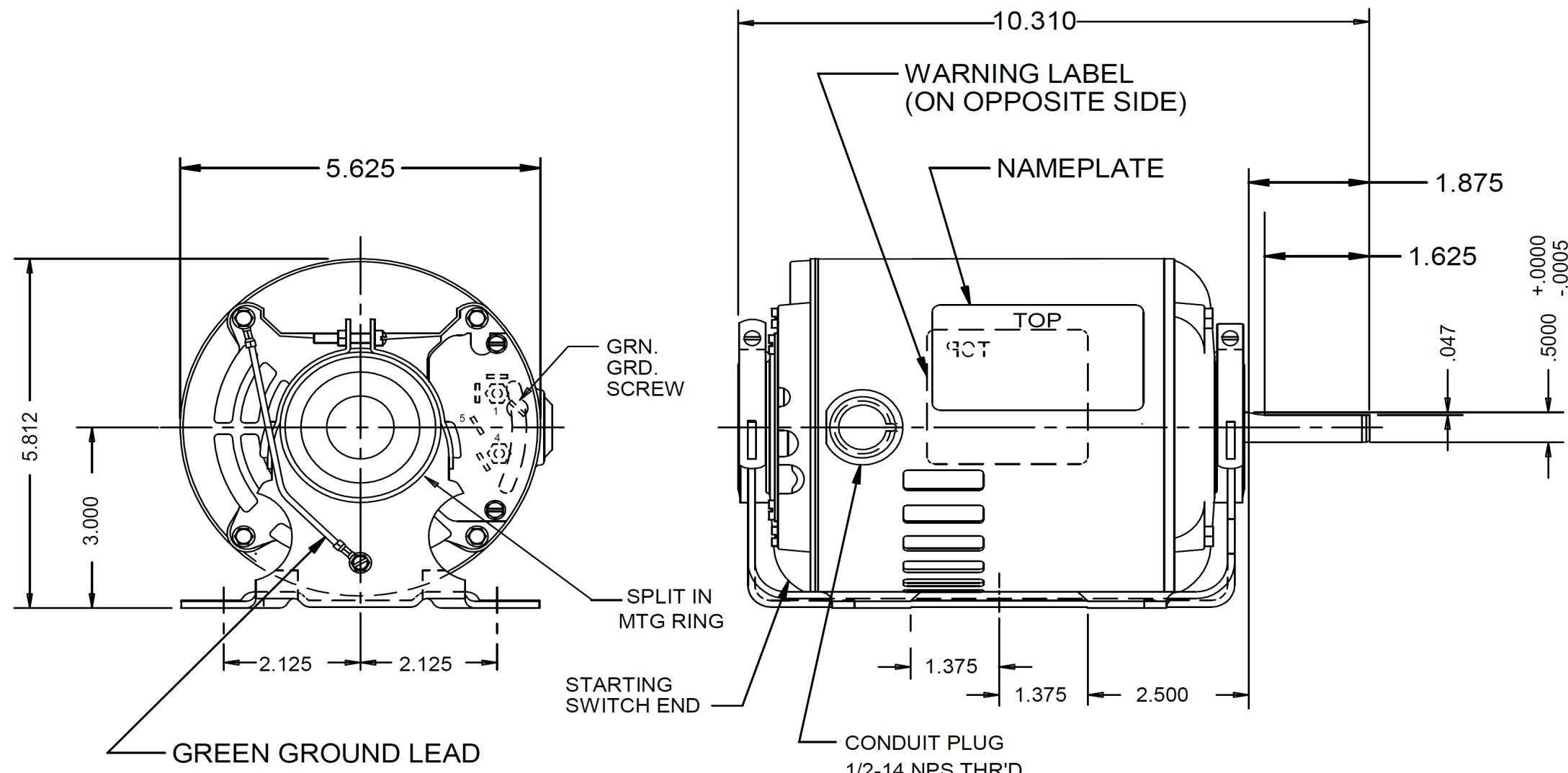


Dimensional Drawing

Dayton®

6K764BE

REV.
-



MODEL	HP.	VOLTS	Hz.	R.P.M.	BEARING	ROTATION	CUST. PT. NO.
S55RLL-8342	1/2	115	60	1725	BALL	CW/CCW	6K764BE

DRAWING NO. PAGE 1 of 1
6K764BE REV. -

Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data

Dayton®

6K764BE

REV.
-

MOTOR PERFORMANCE

HP:	1/2 HP						
Poles:	4P						
No. of Speeds:	1 Spd						
Volts:	115	115					
Hz:	60	60					
Service Factor:	1.25						
Efficiency:	@ Rated Load	54.5					
Power Factor:	@ Rated Load	58.5					
Amps:	@ No Load						
	@ Rated Load	8.9					
	@ Service Factor	9.6					
	@ Locked Rotor	62.27					
RPM:	@ Rated Load						
Ambient (°C):	40						
Torques:	Breakdown	61.58					
	Locked Rotor	44.91					
	Pull-Up	39.97					
	Rated Load						
	Service Factor						
Watts:	Rated Load						
KVA Code:							
Temperature Rise:	@ Rated Load	43.5					
	@ Service Factor	51.7					
Thermal Protector:	Trip Temp (°C)						
Winding Material:	Start (Auxiliary)				Cu		
	Run (Main)				Al		
Capacitor(s):	Start (MFD / Volts)						
	No. of Start Capacitors						
	Run (MFD / Volts)						
	No. of Run Capacitors						

PERFORMANCE DATA:

HP:							
Poles:							
Volts:							
Hz:							
Efficiency:	@ Rated Load						
Power Factor:	@ Rated Load						
Amps:	@ No Load						
	@ Rated Load						
	@ Service Factor						
	@ Locked Rotor						
Torques:	@ Rated Load						
	Locked Rotor						
	Pull-Up						
	Rated Load						
	Service Factor						
Watts:	@ Rated Load						
Temperature Rise:	@ Rated Load						
	@ Service Factor						

DRAWING NO. PAGE 1 REV.
6K764BE -

6K764BE

REV.
-

Dayton Manufacturing Company

Motor Description

Model: S055RMG8315
 Motor ID: 1
 Poles: 4
 Volts: 115
 Frequency: 60
 HP: 1/2
 Speed: 1725
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Start
 Test Number: 10
 Poles: 4
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond: 2 Line Test
 Speed Conn:
 TestBoard: Amtps Performance Fixture #1
 Run Cap: 0
 Start Cap: 0 μ fd
 Tested: 3/3/2012 6:55:13 AM
 Gear Ratio: 1:1
 Bearing Friction: -0.42 Oz-Ft
 Windage Torque: -1.67 Oz-Ft

Special Points

	Vline	Iline	Watts	Speed	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	65.18	6389	4	46.17	0.002	0.0	85.2
	115.0	64.80	6360	40	45.45	0.022	0.3	85.4
	115.0	64.53	6341	183	41.85	0.091	1.1	85.4
	115.0	64.41	6324	224	41.00	0.109	1.3	85.4
PUT OZ-FT	115.0	64.06	6305	316	44.30	0.167	2.0	85.6
	115.0	63.46	6254	440	45.92	0.241	2.9	85.7
	115.0	62.76	6193	556	49.23	0.326	3.9	85.8
	115.0	61.98	6122	662	52.11	0.411	5.0	85.9
	115.0	61.11	6054	762	54.90	0.498	6.1	86.1
	115.0	60.13	5969	853	57.02	0.579	7.2	86.3
	115.0	59.07	5882	939	58.65	0.656	8.3	86.6
	115.0	57.99	5791	1018	59.65	0.723	9.3	86.8
	115.0	56.89	5695	1091	60.01	0.780	10.2	87.1
	115.0	55.74	5594	1159	59.97	0.827	11.0	87.3
	115.0	54.60	5497	1221	59.26	0.862	11.7	87.5
	115.0	53.43	5380	1279	58.05	0.884	12.3	87.6
	115.0	52.26	5274	1331	55.98	0.887	12.6	87.7
	115.0	51.08	5159	1380	53.82	0.884	12.8	87.8
	115.0	49.95	5047	1424	50.31	0.853	12.6	87.9
	115.0	48.83	4932	1465	46.95	0.819	12.4	87.8
	115.0	33.71	3270	1503	50.45	0.903	20.6	84.4
	115.0	20.67	1995	1540	60.38	1.107	41.4	83.9
	115.0	18.68	1791	1571	58.57	1.095	45.6	83.4
	115.0	17.30	1646	1600	55.94	1.066	48.3	82.7
	115.0	15.98	1496	1626	53.16	1.029	51.3	81.4
	115.0	14.73	1347	1650	48.76	0.958	53.1	79.5
	115.0	13.54	1199	1673	44.23	0.881	54.8	77.0
	115.0	12.44	1057	1695	39.03	0.788	55.6	73.9
	115.0	11.28	900	1715	33.17	0.677	56.1	69.4
	115.0	10.62	752	1734	25.72	0.531	52.7	61.6
	115.0	9.72	599	1753	18.26	0.381	47.5	53.6
	115.0	9.37	460	1771	10.35	0.218	35.4	42.7
	115.0	9.39	312	1790	0.97	0.021	4.9	28.9
	115.0	9.42	297	1792	0.00	0.000	0.0	27.5

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6K764BE

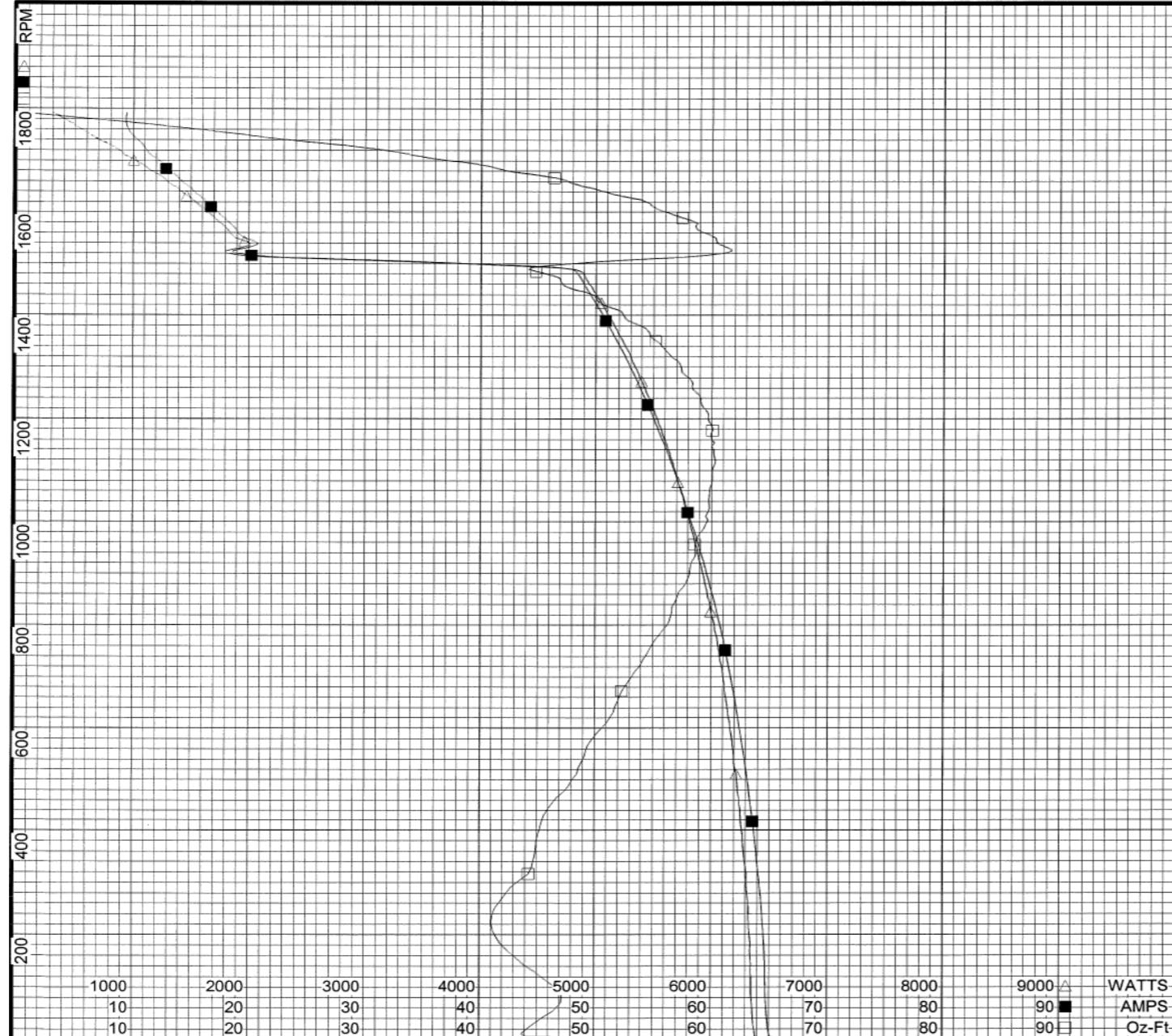
REV.
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Performance Data

Dayton[®]

6K764BE

REV.
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Dayton

Curve Descriptions:

Motor(1) Test 10 Start 115V 60 Hz 4P
2 Line Test Attempt #1

- SPEED vs TORQUE
- SPEED vs ILine
- △ SPEED vs WATTS

Motor Ratings:

(1) S055RMG8315 ID: 1

DRAWING NO. PAGE 2 of 4
6K764BE

REV.
-

Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

6K764BE

REV.
-

Dayton Manufacturing Company

Motor Description

Model: S055RMG8315
 Motor ID: 1
 Poles: 4
 Volts: 115
 Frequency: 60
 HP: 1/2
 Speed: 1725
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Run
 Test Number: 20
 Poles: 4
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Amtps Performance Fixture #1

Run Cap: 0
 Start Cap: 0μfd
 Tested: 3/3/2012 6:54:21 AM
 Gear Ratio: 1:1
 Bearing Friction: -0.42 Oz-Ft
 Windage Torque: -1.73 Oz-Ft

Special Points

	Vline	Iline	Watts	Speed	Tq (Oz-ft)	HP	Eff (%)	PF (%)
0.5 HP	115.0	9.60	273	1787	0.00	0.000	0.0	24.7
24.4 OZ-FT	115.0	9.56	424	1769	9.17	0.193	34.0	38.6
	115.0	9.83	605	1748	20.04	0.417	51.4	53.5
	115.0	10.16	684	1740	24.14	0.500	54.5	58.5
30 OZ-FT	115.0	10.19	690	1740	24.40	0.505	54.6	58.9
1725 RPM	115.0	10.74	785	1729	29.08	0.599	56.9	63.5
	115.0	10.88	805	1727	30.00	0.617	57.1	64.3
	115.0	11.00	820	1725	30.88	0.634	57.7	64.8
	115.0	11.64	929	1709	35.83	0.729	58.5	69.4
	115.0	12.93	1113	1688	43.46	0.873	58.5	74.8
	115.0	14.13	1283	1665	48.97	0.970	56.4	79.0
	115.0	15.51	1450	1639	53.92	1.052	54.1	81.3
	115.0	17.01	1616	1613	56.74	1.090	50.3	82.6
	115.0	18.52	1775	1584	60.38	1.139	47.9	83.3
	115.0	20.02	1930	1553	62.51	1.156	44.7	83.8
	115.0	21.53	2077	1519	63.28	1.144	41.1	83.9
BDT OZ-FT	115.0	22.16	2137	1505	64.11	1.149	40.1	83.8
	115.0	23.05	2219	1483	63.36	1.118	37.6	83.7
	115.0	24.57	2353	1443	63.08	1.083	34.3	83.3
	115.0	26.02	2480	1399	62.02	1.033	31.1	82.9
	115.0	27.41	2596	1351	59.55	0.958	27.5	82.3
	115.0	28.75	2704	1300	56.89	0.880	24.3	81.8
	115.0	30.04	2802	1243	53.63	0.794	21.1	81.1
	115.0	31.24	2888	1184	49.83	0.702	18.1	80.4
	115.0	32.36	2967	1117	45.84	0.610	15.3	79.7
	115.0	33.44	3033	1047	41.52	0.518	12.7	78.9
	115.0	34.38	3092	971	36.85	0.426	10.3	78.2
	115.0	35.24	3141	890	31.99	0.339	8.0	77.5
	115.0	63.77	6187	805	56.35	0.540	6.5	84.4
	115.0	64.31	6337	711	54.81	0.464	5.5	85.7
	115.0	64.82	6378	610	51.81	0.376	4.4	85.6
	115.0	65.08	6399	502	48.79	0.292	3.4	85.5
	115.0	65.29	6410	386	45.59	0.210	2.4	85.4
	115.0	65.30	6410	264	42.77	0.134	1.6	85.4
	115.0	65.20	6398	134	42.59	0.068	0.8	85.3

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6K764BE

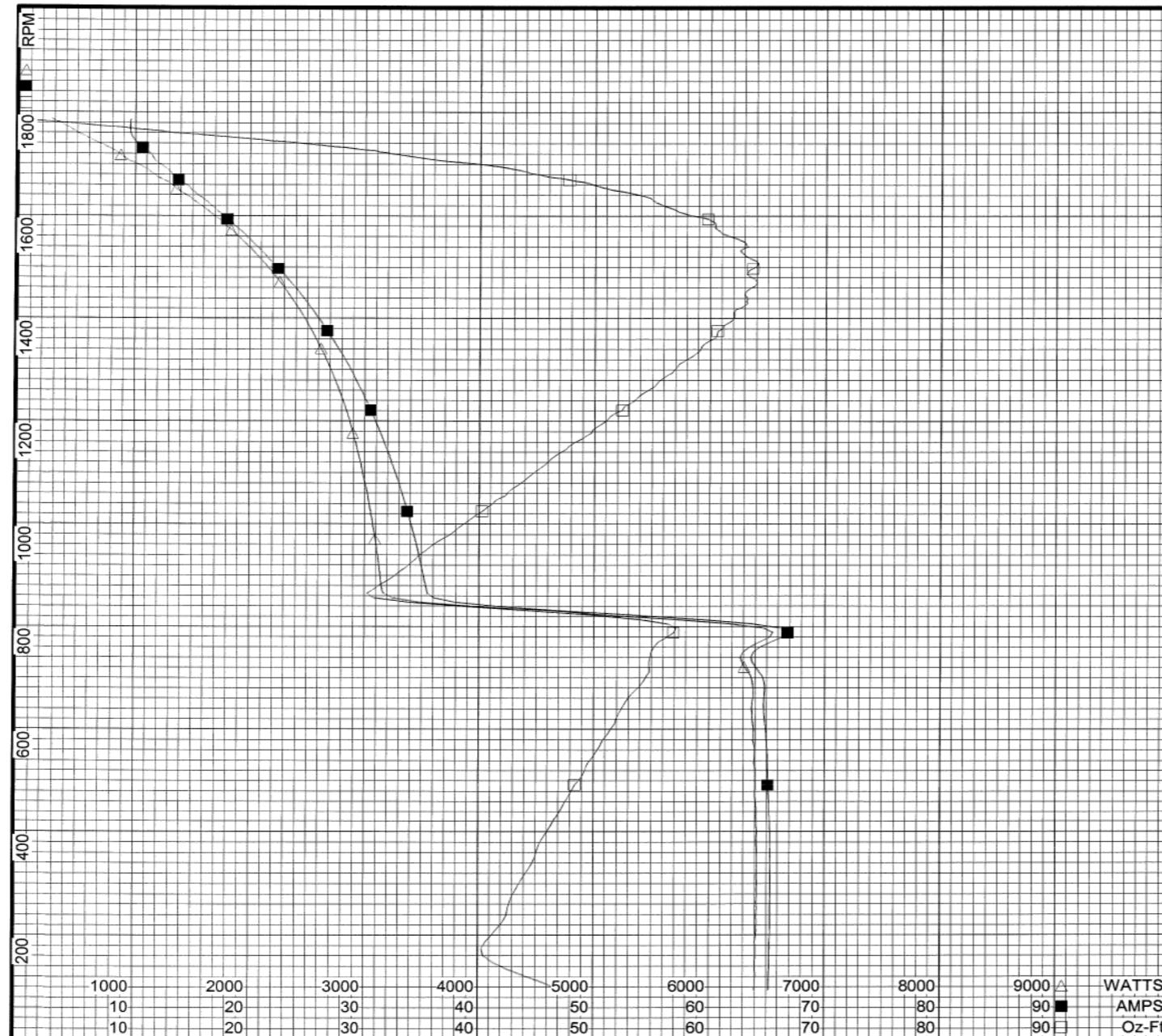
REV.
-

Performance Data

Dayton®

6K764BE

REV.
-



Dayton

Curve Descriptions:

Motor(1) Test 20 Run 115V 60 Hz 4P
Attempt #1

- SPEED vs TORQUE
- SPEED vs ILine
- △ SPEED vs WATTS

Motor Ratings:

(1) S055RMG8315 ID: 1

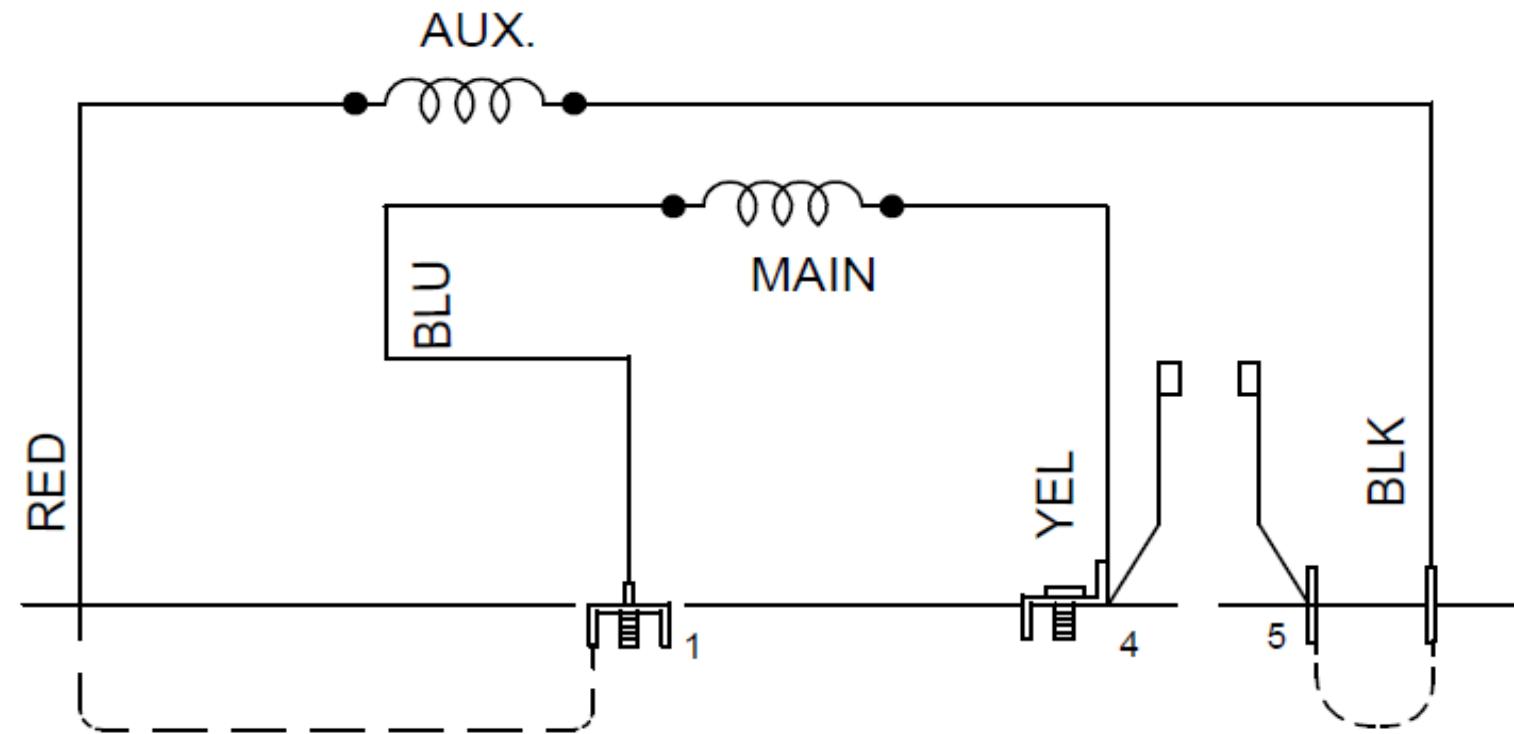
DRAWING NO. PAGE 4 of 4
6K764BE

REV.
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Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

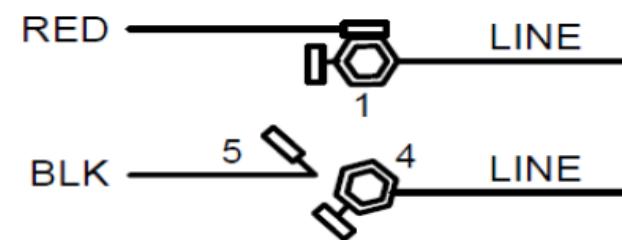
6K764BE

REV.
-



LINE CONN: UNGROUNDED-1; GROUNDED-4
TO REV. INTERCHANGE RED & BLK. LEADS.

CONNECTIONS



TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS

DRAWING NO. PAGE 1 of 1
6K764BE REV. -



Part
No

6K764BE

SPLIT PHASE
MOTOR

HP: 1/2

PH: 1

VOLTS: 115

Hz: 60

AMPS: 8.9

FR: 48Z

RPM: 1725

INS CL: F

DUTY: CONT

AMB: 40 °C

SF: 1.25

SFA: 9.6

KVA CODE : R

ENCL: ODP

MTR REF: S55RLL-8342

THERMALLY PROTECTED: NONE

MFG. NO.



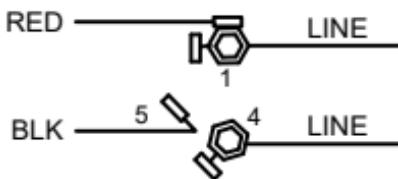
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E47479

Disconnect Power Before Making
Any Electrical Connections or Changes

CONNECTIONS



TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS