

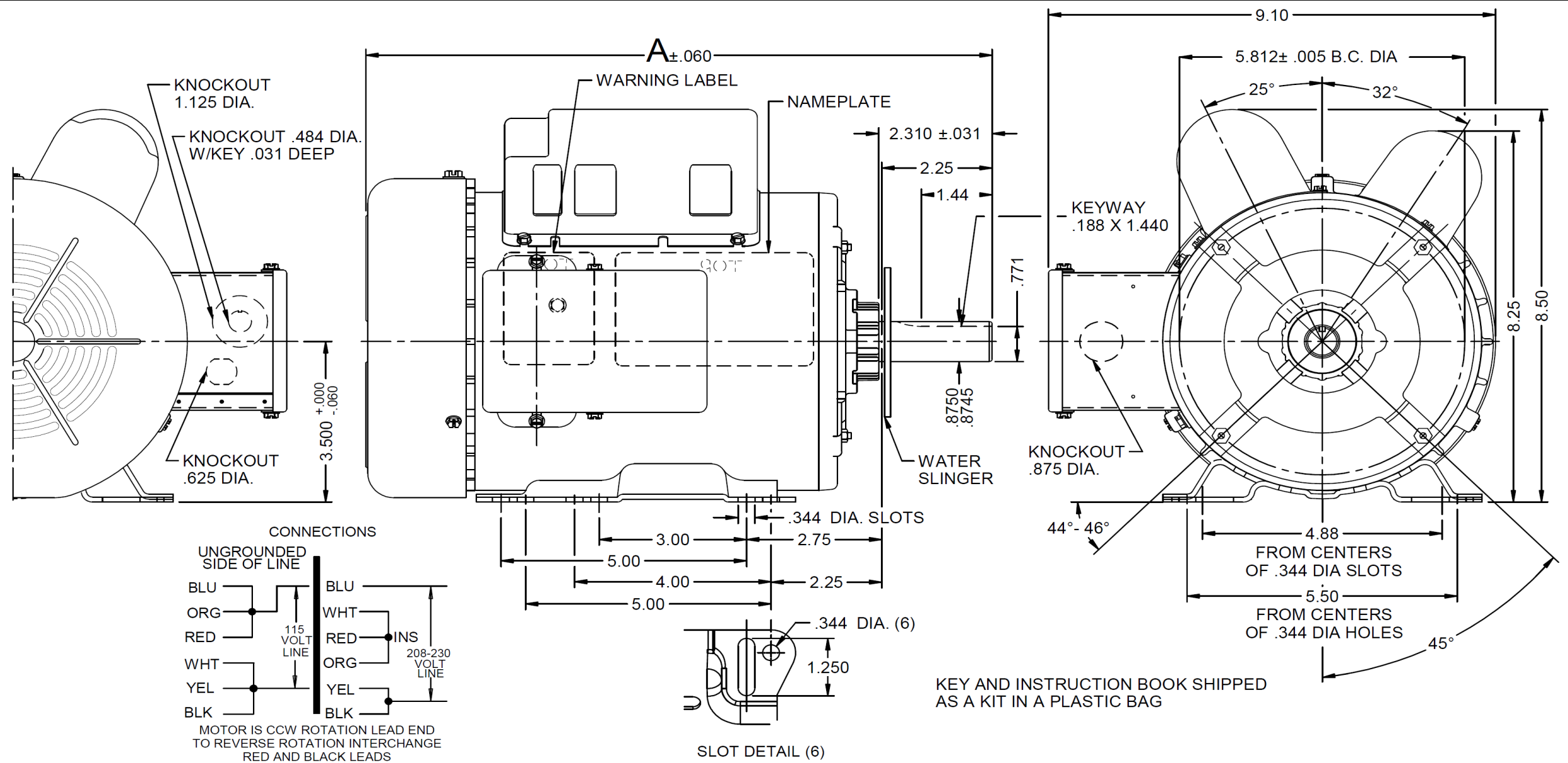
Dimensional Drawing



6K828BG

REV. -

VAR	MODEL	CUST. PT. NO.	A	B	C	D	HP	VOLTS	SF	AMPS	HZ	RPM	CONN VOLTS	PROT.	DESCRIPTION / REMARKS
001	T63DAW-2251	6K828BG	14.25	-----	-----	-----	1 1/2	115/208-230	1.15	14.4/8.0-7.2	60	1725	---	NONE	145T, TEFC



KEY AND INSTRUCTION BOOK SHIPPED
AS A KIT IN A PLASTIC BAG

DRAWING NO.	PAGE 1 of 1	REV.
	6K828BG	-

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

Performance Data



6K828BG

REV.
-

MOTOR PERFORMANCE

HP:	1 1/2							
Poles:	4							
No. of Speeds:	1							
Volts:	115/208-230	115	208	230				
HZ:	60	60	60	60				
Service Factor:	1.15							
Efficiency:	@ Rated Load	79.1	80.0	81.0				
Power Factor:	@ Rated Load	90.5	91.5	89.9				
Amps:	@ No Load							
	@ Rated Load	13.6	7.35	6.7				
	@ Service Factor	15.8	8.51	7.72				
	@ Locked Rotor	96.6	44.22	50				
RPM:	@ Rated Load	1740	1725	1744				
Ambient (°C):	40							
Altitude (FASL):								
Torques:	Breakdown	171.3	130	176.6				
	Locked Rotor	224	169.43	212				
	Pull-Up	211.4	164	196				
	Rated Load	72.4	73.03	72.2				
	Service Factor	84	84	84				
Watts:	Rated Load	1411	1400	1383				
KVA Code:	J	J	G	J				
Temperature Rise:	@ Rated Load	61.2	68.6	61.4				
	@ Service Factor	75.2	NA	72.5				
Thermal Protector:	Trip Temp (°C)	NA	NA	NA				
Winding Material:	Start (Auxiliary)	Cu	Cu	Cu				
	Run (Main)	Cu	Cu	Cu				
Capacitor(s):	Start (MFD / Volts)	709MFD/125V						
	No. of Start Capacitors							
	Run (MFD / Volts)	50 mFd, 370V						
	No. of Run Capacitors							

LOW SPEED PERFORMANCE DATA:

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

DRAWING NO. PAGE 1 of 1
6K828BG

REV.
-

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

Performance Data



6K828BG			REV. -											
Dayton Manufacturing Company														
Motor Description				Test Conditions										
Model: T063DAW2251 6K828BG				Test Type: Start		Run Cap: 50 µFd								
Motor ID: 1				Test Number: 1		Start Cap: 709 µFd								
Poles: 4				Poles: 4		Environment:								
Volts: 115/208-230				Volts: 115		Tested: 7/31/2015 2:45:57 PM								
Frequency: 60				Hz: 60		Tested By: Sharp, Gerald								
HP: 1 1/2				Rotation:		Gear Ratio: 1:1								
Speed: 1725				Special Cond:		Bearing Friction: 0.48 Oz-Ft								
Phase: 1				Speed Conn: 3 line		Windage Torque: -0.80 Oz-Ft								
Protector: CEJ38CS				TestBoard: Amps Performance		Fixture #2								
Special Points		Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Imain(A)	Iaux(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	Cap
		115.0	124.0	125.0	96.60	79.32	35.25	10000	11	223.5	0.029	0.2	90.0	747.7
PUT	OZ-FT	115.0	123.5	125.1	96.36	79.19	35.25	9974	11	211.4	0.027	0.2	90.0	747.5
		115.0	123.8	124.9	96.38	79.05	35.21	9985	28	217.9	0.074	0.6	90.1	747.9
		115.0	125.5	122.1	96.43	78.46	34.39	9988	155	216.2	0.399	3.0	90.1	747.2
		115.0	126.2	119.7	96.10	77.54	33.66	9970	279	235.7	0.784	5.9	90.2	746.2
		115.0	128.0	116.9	95.60	76.37	32.89	9932	391	235.2	1.096	8.2	90.3	746.6
		115.0	129.1	113.4	94.99	75.35	31.88	9869	499	251.2	1.492	11.3	90.3	745.8
		115.0	131.5	109.7	95.04	74.79	30.83	9841	598	248.7	1.771	13.4	90.0	745.6
		115.0	136.8	108.3	96.34	74.58	30.42	9996	691	246.6	2.028	15.1	90.2	745.3
		115.0	141.7	108.5	97.18	73.64	30.47	10155	779	253.1	2.345	17.2	90.9	745.2
		115.0	145.8	107.9	97.12	72.32	30.36	10226	860	258.8	2.650	19.3	91.6	746.4
		115.0	149.8	107.3	96.97	71.05	30.19	10265	936	260.6	2.904	21.1	92.1	746.3
		115.0	153.7	106.5	96.63	69.81	29.98	10273	1008	262.6	3.153	22.9	92.4	746.4
		115.0	157.6	106.1	96.24	68.57	29.84	10271	1074	261.1	3.337	24.2	92.8	745.8
		115.0	161.9	105.8	95.80	67.36	29.79	10267	1135	258.8	3.499	25.4	93.2	746.7
		115.0	166.2	105.8	95.40	66.27	29.81	10258	1192	254.3	3.609	26.2	93.5	747.1
		115.0	170.7	106.5	94.94	65.19	29.96	10245	1244	248.6	3.682	26.8	93.8	746.6
		115.0	175.6	107.5	94.48	64.15	30.26	10230	1294	240.3	3.703	27.0	94.2	746.6
		115.0	180.4	108.8	94.03	63.18	30.70	10216	1339	230.1	3.667	26.8	94.5	748.0
		115.0	185.3	110.9	93.56	62.24	31.27	10200	1381	219.5	3.609	26.4	94.8	747.8
		115.0	190.4	113.4	93.10	61.34	31.99	10187	1420	206.7	3.494	25.6	95.1	748.4
		115.0	195.8	116.3	92.67	60.47	32.87	10182	1456	191.9	3.325	24.4	95.5	749.7
		115.0	200.8	119.6	92.26	59.69	33.82	10172	1488	177.0	3.135	23.0	95.9	750.0
		115.0	206.2	123.1	91.82	58.90	34.89	10168	1519	160.9	2.910	21.4	96.3	751.9
		115.0	211.2	126.9	91.36	58.16	36.00	10145	1547	141.9	2.614	19.2	96.6	752.6
		115.0	216.5	131.1	90.95	57.45	37.26	10137	1573	122.5	2.294	16.9	96.9	754.1
		115.0	221.7	135.2	90.54	56.80	38.54	10133	1597	102.3	1.945	14.3	97.3	756.0
		115.0	226.5	139.4	90.13	56.18	39.81	10110	1621	81.9	1.581	11.7	97.5	757.4
		115.0	231.5	143.9	89.65	55.50	41.18	10092	1642	60.0	1.172	8.7	97.9	758.9
		115.0	236.3	148.7	89.21	54.91	42.60	10067	1662	34.4	0.681	5.0	98.1	759.9
		115.0	240.9	153.0	88.55	54.19	43.97	10024	1680	11.1	0.221	1.6	98.4	762.2
		115.0	243.2	155.2	88.27	53.81	44.74	10006	1691	0.0	0.000	0.0	98.6	764.5

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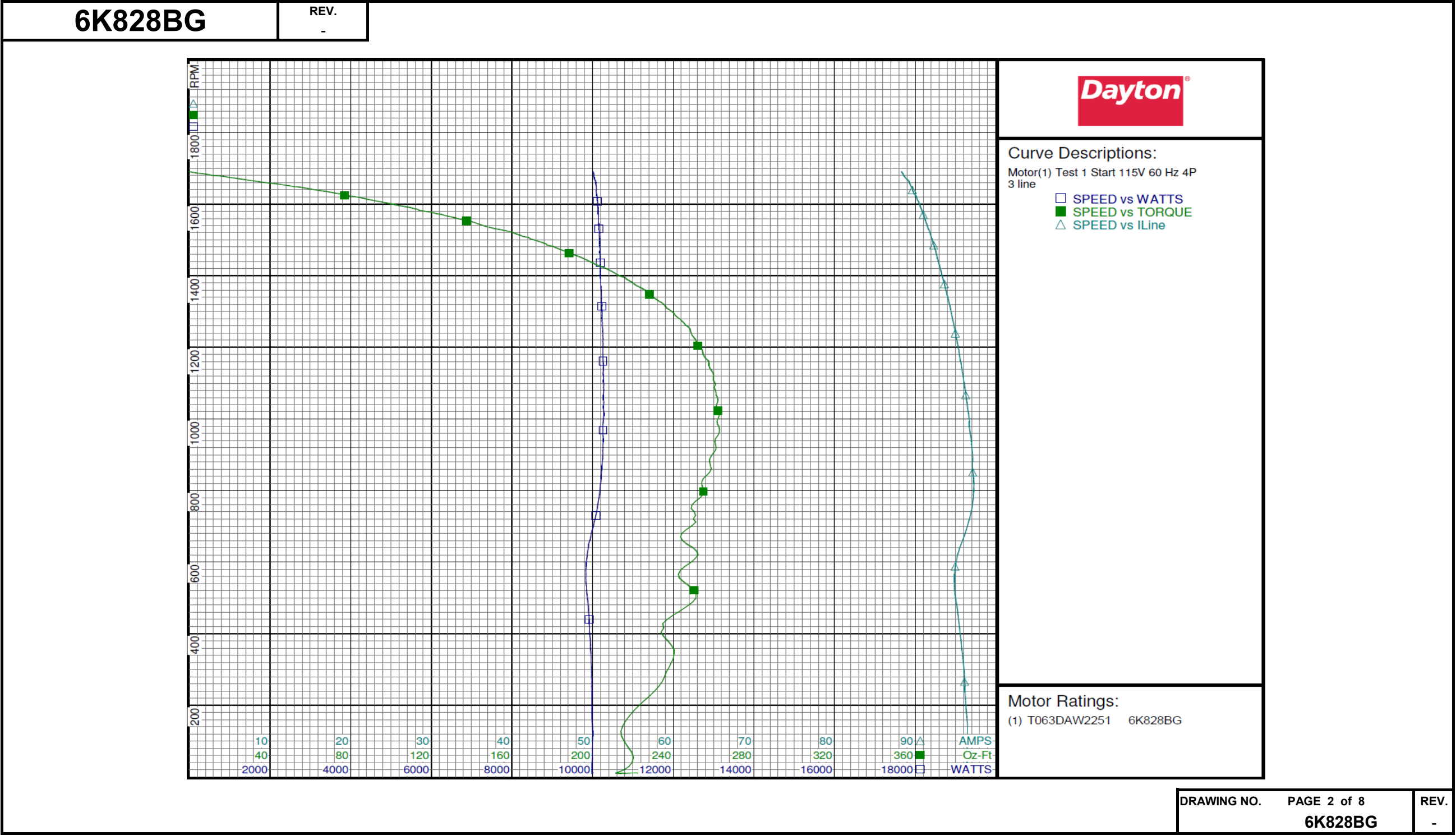
6K828BG

REV.
-

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6K828BG		-

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

Performance Data



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

Performance Data



6K828BG		REV. -								
Dayton Manufacturing Company										
Motor Description					Test Conditions					
Model:		T063DAW2251 6K828BG		Test Type:		Run		Run Cap:		50 µFd
Motor ID:		1		Test Number:		2		Start Cap:		709 µFd
Poles:		4		Poles:		4		Environment:		
Volts:		115/208-230		Volts:		115		Tested:		7/31/2015 2:20:08 PM
Frequency:		60		Hz:		60		Tested By:		Sharp, Gerald
HP:		1 1/2		Rotation:				Gear Ratio:		1:1
Speed:		1725		Special Cond:				Bearing Friction:		0.16 Oz-Ft
Phase:		1		Speed Conn:				Windage Torque:		-0.96 Oz-Ft
Protector:		CEJ38CS		TestBoard:		Amps Performance		Fixture #2		
Special Points		Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)
		115.0	164.4	207.4	4.54	150	1797	0.0	0.000	0.0
18.26 OZ-FT		115.0	160.6	200.6	5.77	455	1783	18.3	0.388	63.4
		115.0	159.4	198.1	6.49	565	1779	25.3	0.535	70.7
36.52 OZ-FT		115.0	157.5	194.5	7.95	751	1772	36.5	0.770	76.5
		115.0	154.9	190.6	9.78	968	1761	48.9	1.025	79.0
54.78 OZ-FT		115.0	153.6	188.5	10.69	1076	1755	54.8	1.145	79.4
		115.0	150.7	184.0	13.06	1352	1743	69.8	1.447	79.8
73.04 OZ-FT		115.0	149.7	182.9	13.70	1426	1739	73.0	1.512	79.1
1.5 HP		115.0	149.9	183.2	13.57	1411	1740	72.4	1.500	79.3
1725 RPM		115.0	146.5	178.7	15.80	1661	1725	84.6	1.738	78.0
84 OZ-FT		115.0	146.6	178.8	15.77	1658	1725	84.0	1.725	77.6
		115.0	146.1	178.1	16.11	1695	1723	91.1	1.869	82.3
91.3 OZ-FT		115.0	146.1	178.1	16.12	1696	1723	91.3	1.872	82.4
		115.0	140.4	170.6	20.09	2129	1703	107.9	2.187	76.6
		115.0	134.8	164.0	23.67	2492	1680	123.8	2.477	74.1
		115.0	129.2	157.7	27.24	2857	1656	137.8	2.717	70.9
		115.0	123.4	151.1	30.96	3226	1630	149.5	2.901	67.1
		115.0	117.5	145.1	34.53	3565	1602	158.6	3.024	63.3
		115.0	111.5	139.0	38.15	3899	1572	165.4	3.096	59.2
		115.0	105.5	133.4	41.66	4208	1539	169.5	3.106	55.1
		115.0	99.4	128.1	45.13	4499	1503	171.0	3.059	50.7
BDT OZ-FT		115.0	96.9	126.2	46.47	4604	1488	171.3	3.035	49.2
		115.0	93.4	123.4	48.31	4775	1464	170.2	2.967	46.3
		115.0	87.2	119.0	51.62	5025	1421	167.2	2.830	42.0
		115.0	81.2	115.3	54.72	5241	1376	162.5	2.661	37.9
		115.0	75.4	112.1	57.72	5440	1326	155.2	2.451	33.6
		115.0	69.7	109.5	60.54	5611	1272	146.8	2.223	29.6
		115.0	64.1	107.4	63.25	5767	1214	136.2	1.967	25.4
		115.0	58.6	105.9	65.74	5898	1150	123.8	1.696	21.4
		115.0	53.2	104.9	68.06	5999	1083	110.3	1.421	17.7
		115.0	48.3	104.3	70.18	6081	1008	95.4	1.145	14.0
		115.0	43.5	103.8	72.11	6141	930	79.0	0.874	10.6
		115.0	38.7	103.4	73.85	6183	845	60.4	0.607	7.3
		115.0	33.5	102.4	75.31	6171	754	38.9	0.349	4.2
PUT OZ-FT		115.0	159.3	197.8	6.57	575	1778	26.0	0.549	71.2
		115.0	26.8	101.8	75.91	6093	657	26.6	0.208	2.6
		115.0	138.0	109.4	96.49	10003	586	269.5	1.879	14.0
		115.0	127.2	113.5	94.97	9854	481	248.4	1.423	10.8
		115.0	125.5	117.6	95.69	9933	350	238.9	0.997	7.5
		115.0	123.4	120.3	96.17	9967	223	234.3	0.621	4.6
		115.0	122.4	123.1	96.26	9983	86	230.1	0.236	1.8

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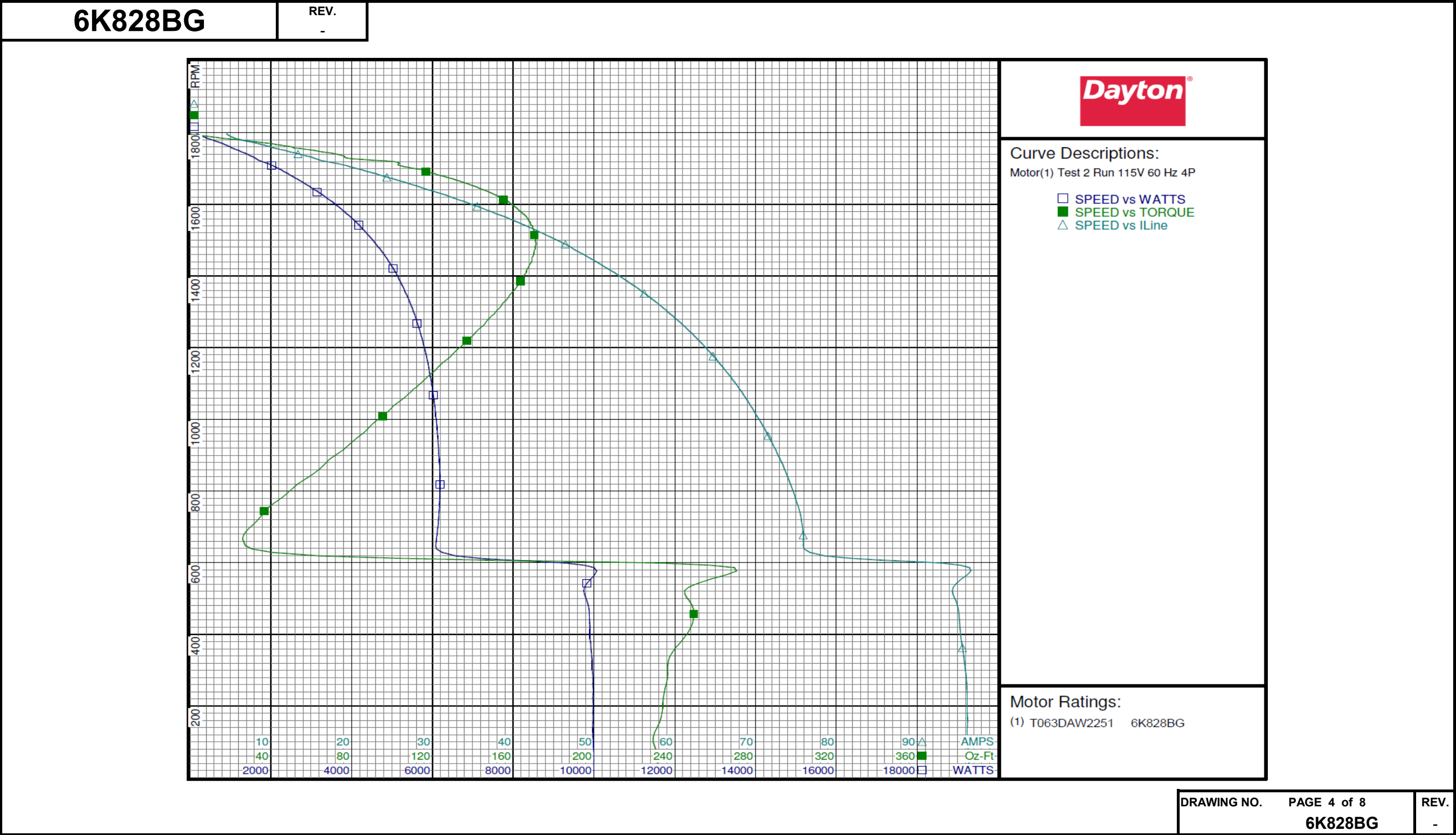
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6K828BG

REV.

-

Performance Data



Performance Data



6K828BG

REV.
-

Dayton Manufacturing Company

Motor Description

Model:

T063DAW2251

6K828BG

Motor ID:

1

Poles:

4

Volts:

115/208-230

Frequency:

60

HP:

1 1/2

Speed:

1725

Phase:

1

Protector:

CEJ38CS

Test Conditions

Test Type:

Start

Test Number:

27

Poles:

4

Volts:

230

Hz:

60

Rotation:

Special Cond:

Speed Conn:

2 line

TestBoard:

Amps Performance

Run Cap:

50 μFd

Start Cap:

709 μFd

Environment:

Tested:

8/3/2015 3:03:43 PM

Tested By:

Sharp, Gerald

Gear Ratio:

1:1

Bearing Friction:

-0.32 Oz-Ft

Windage Torque:

-1.60 Oz-Ft

Fixture #2

Special Points

Vline(V)

Iline(A)

Watts

RPM

Tq(Oz-ft)

HP

Eff (%)

PF (%)

PUT

OZ-FT

230.0

49.19

9751

10

199.7

0.024

0.2

86.2

230.0

49.16

9753

54

210.8

0.135

1.0

86.2

230.0

49.05

9753

211

212.3

0.533

4.1

86.5

230.0

48.74

9695

353

216.5

0.911

7.0

86.5

230.0

48.24

9617

487

232.4

1.347

10.4

86.7

230.0

48.09

9539

608

233.4

1.691

13.2

86.2

230.0

48.86

9739

719

231.7

1.985

15.2

86.7

230.0

49.11

9904

824

239.2

2.346

17.7

87.7

230.0

48.92

9962

920

245.7

2.692

20.2

88.5

230.0

48.62

9985

1008

248.6

2.984

22.3

89.3

230.0

48.24

9962

1088

248.6

3.220

24.1

89.8

230.0

47.87

9938

1162

246.6

3.411

25.6

90.3

230.0

47.49

9932

1227

241.4

3.527

26.5

90.9

230.0

47.01

9894

1288

232.0

3.557

26.8

91.5

230.0

28.24

5275

1334

165.1

2.623

37.1

81.2

230.0

27.00

5137

1390

168.0

2.781

40.4

82.7

230.0

25.23

4889

1440

171.7

2.944

44.9

84.3

230.0

23.39

4597

1485

173.1

3.060

49.7

85.5

230.0

21.54

4296

1524

171.8

3.117

54.1

86.7

230.0

19.75

3991

1559

167.6

3.109

58.1

87.8

230.0

17.95

3670

1592

161.4

3.060

62.2

88.9

230.0

16.17

3335

1620

152.4

2.940

65.7

89.7

230.0

14.39

2995

1647

141.8

2.780

69.3

90.5

230.0

12.68

2650

1672

129.9

2.586

72.8

90.9

230.0

10.98

2305

1694

115.4

2.327

75.3

91.3

230.0

9.27

1939

1715

98.9

2.019

77.7

90.9

230.0

7.60

1574

1735

80.9

1.671

79.2

90.0

230.0

5.92

1194

1755

60.4

1.262

78.8

87.7

230.0

4.13

764

1775

35.8

0.757

73.9

80.4

230.0

2.79

375

1795

11.5

0.246

48.9

58.5

230.0

2.57

273

1800

4.5

0.096

26.2

46.3

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REV.

6K828BG

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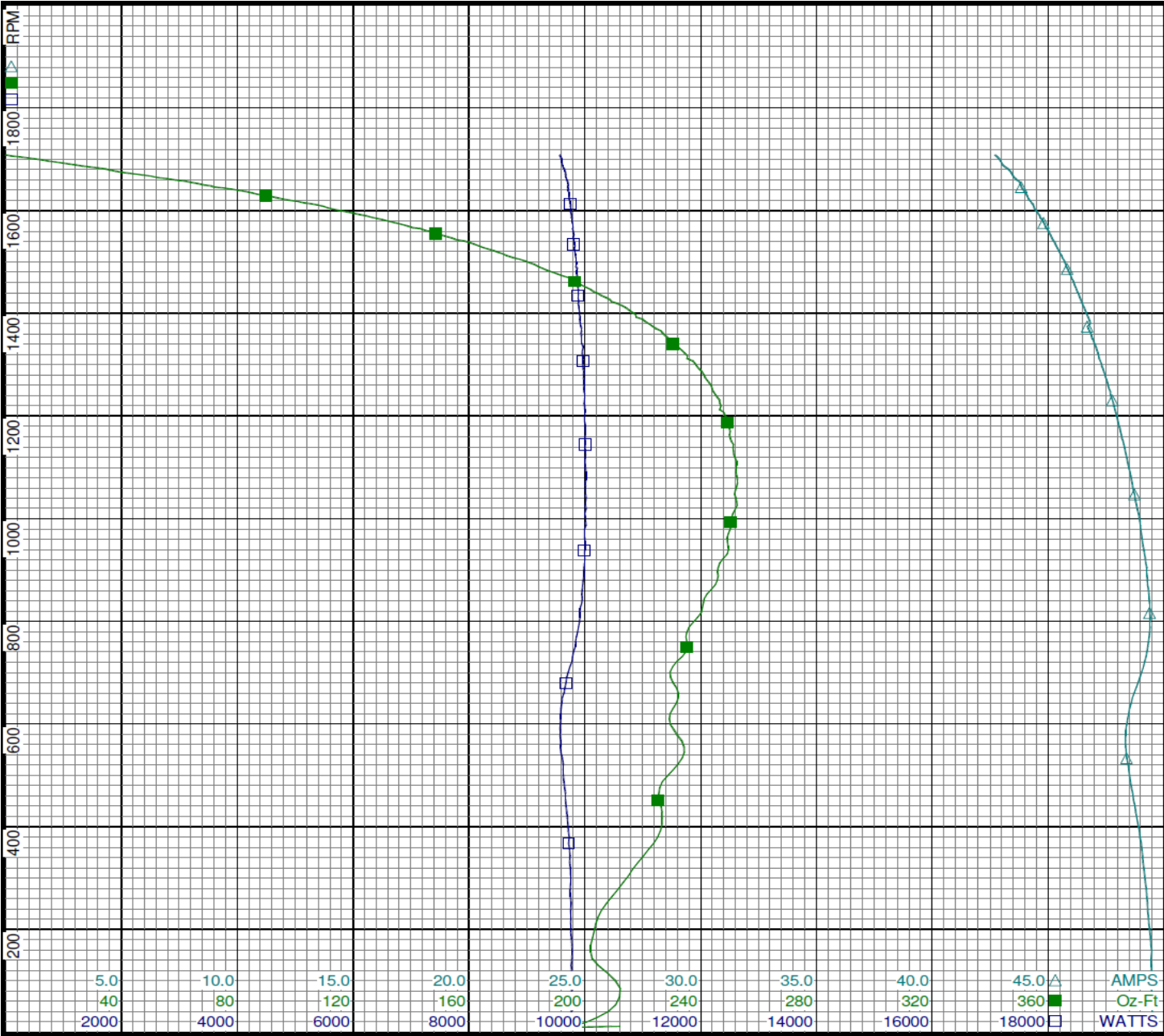
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



6K828BG

REV.
-



Curve Descriptions:
Motor(1) Test 9 Start 230V 60 Hz 4P
3 line
□ SPEED vs WATTS
■ SPEED vs TORQUE
△ SPEED vs ILine

Motor Ratings:
(1) T063DAW2251 6K828BG

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6K828BG		-

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

Performance Data



6K828BG			REV. -					
Dayton Manufacturing Company								
Motor Description				Test Conditions				
Model:	T063DAW2251 6K828BG		Test Type:	Run	Run Cap:	50 µFd		
Motor ID:	1		Test Number:	10	Start Cap:	709 µFd		
Poles:	4		Poles:	4	Environment:			
Volts:	115/208-230		Volts:	230	Tested:	8/3/2015 3:25:27 PM		
Frequency:	60		Hz:	60	Tested By:	Sharp, Gerald		
HP:	1 1/2		Rotation:		Gear Ratio:	1:1		
Speed:	1725		Special Cond:		Bearing Friction:	0.00 Oz-Ft		
Phase:	1		Speed Conn:		Windage Torque:	-1.28 Oz-Ft		
Protector:	CEJ38CS		TestBoard:	Amps Performance	Fixture #2			
Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	230.0	2.27	185	1794	0.0	0.000	0.0	35.4
18.26 OZ-FT	230.0	2.90	464	1781	18.3	0.387	62.2	69.4
	230.0	3.47	623	1776	28.2	0.597	71.5	78.1
36.52 OZ-FT	230.0	4.01	761	1771	36.5	0.770	75.4	82.6
	230.0	5.20	1049	1759	53.5	1.121	79.7	87.7
54.78 OZ-FT	230.0	5.30	1072	1758	54.8	1.147	79.8	87.9
73.04 OZ-FT	230.0	6.76	1397	1743	73.0	1.516	81.0	89.9
1.5 HP	230.0	6.69	1383	1744	72.2	1.500	80.9	89.8
	230.0	6.94	1441	1741	75.0	1.554	80.4	90.3
84 OZ-FT	230.0	7.72	1616	1731	84.0	1.731	79.9	91.0
1725 RPM	230.0	8.27	1738	1725	90.5	1.858	79.8	91.4
91.3 OZ-FT	230.0	8.34	1754	1724	91.3	1.874	79.7	91.5
	230.0	8.64	1821	1721	94.6	1.938	79.4	91.6
	230.0	10.39	2192	1700	111.9	2.265	77.1	91.7
	230.0	12.22	2576	1678	128.1	2.560	74.1	91.7
	230.0	14.05	2941	1654	142.1	2.797	71.0	91.0
	230.0	15.88	3300	1627	153.7	2.976	67.3	90.4
	230.0	17.67	3635	1599	162.7	3.097	63.5	89.4
	230.0	19.52	3970	1569	169.9	3.172	59.6	88.4
	230.0	21.30	4268	1536	174.0	3.181	55.6	87.1
	230.0	23.05	4561	1500	176.6	3.153	51.6	86.0
BDT OZ-FT	230.0	24.27	4759	1472	176.6	3.095	48.5	85.2
	230.0	24.78	4831	1460	175.7	3.054	47.2	84.7
	230.0	26.44	5075	1418	173.0	2.920	42.9	83.4
	230.0	28.02	5287	1371	168.0	2.742	38.7	82.0
	230.0	29.55	5484	1321	161.1	2.534	34.5	80.7
	230.0	30.99	5652	1266	151.7	2.287	30.2	79.3
	230.0	32.35	5800	1207	140.8	2.022	26.0	78.0
	230.0	33.64	5922	1143	128.1	1.744	22.0	76.5
	230.0	34.80	6015	1074	113.9	1.457	18.1	75.1
	230.0	35.87	6085	1000	98.6	1.174	14.4	73.8
	230.0	36.84	6143	921	80.6	0.884	10.7	72.5
	230.0	37.72	6161	835	60.9	0.606	7.3	71.0
	230.0	38.42	6141	743	39.8	0.352	4.3	69.5
PUT OZ-FT	230.0	3.41	609	1777	27.3	0.577	70.7	77.5
	230.0	38.64	6038	647	27.3	0.210	2.6	67.9
	230.0	48.53	9645	571	242.8	1.652	12.8	86.4
	230.0	48.04	9564	465	224.2	1.243	9.7	86.6
	230.0	48.45	9644	337	219.4	0.880	6.8	86.5
	230.0	48.74	9688	205	200.5	0.490	3.8	86.4
	230.0	48.83	9695	69	207.4	0.172	1.3	86.3

DRAWING NO.

PAGE 7 of 8

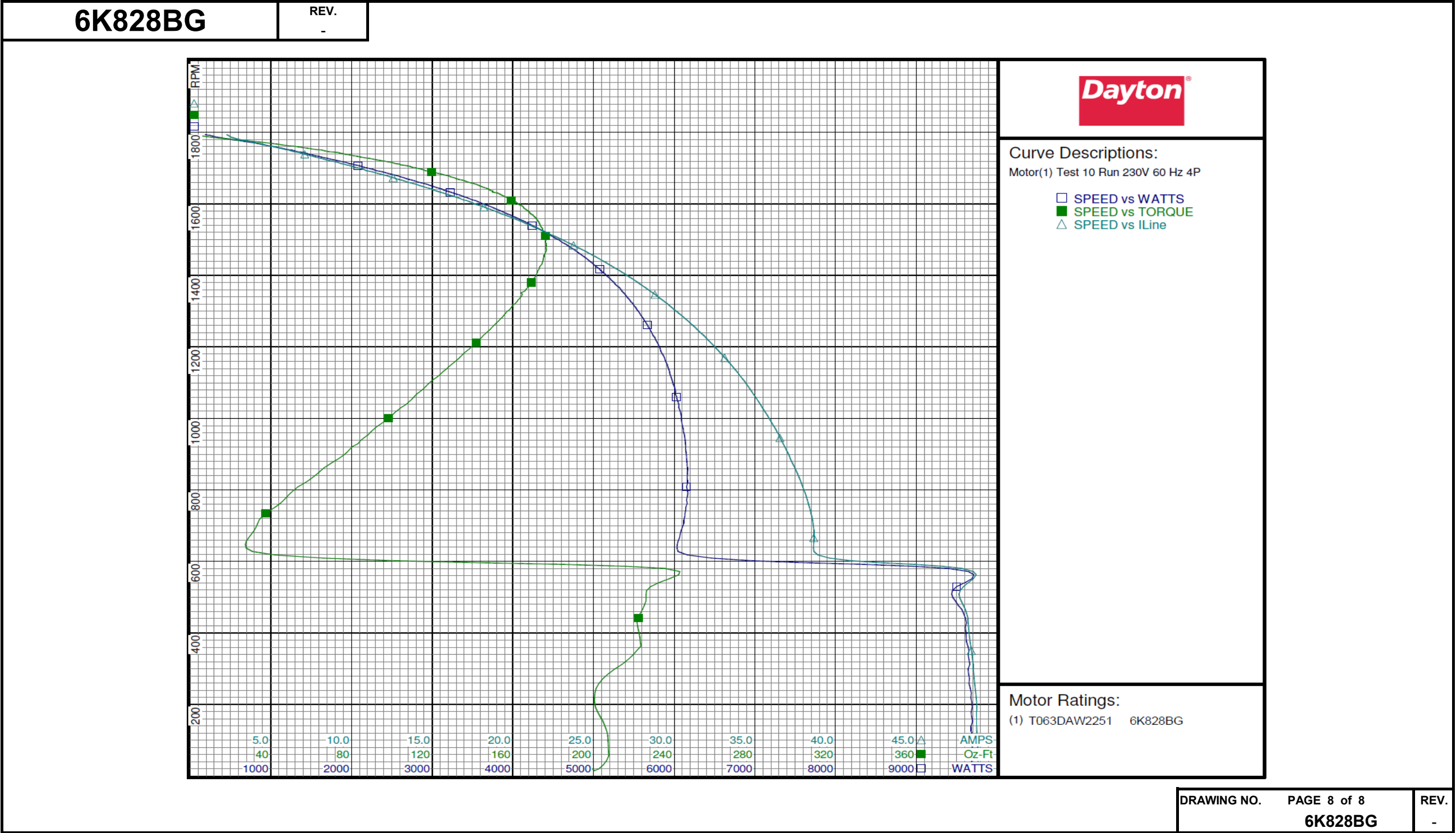
6K828BG

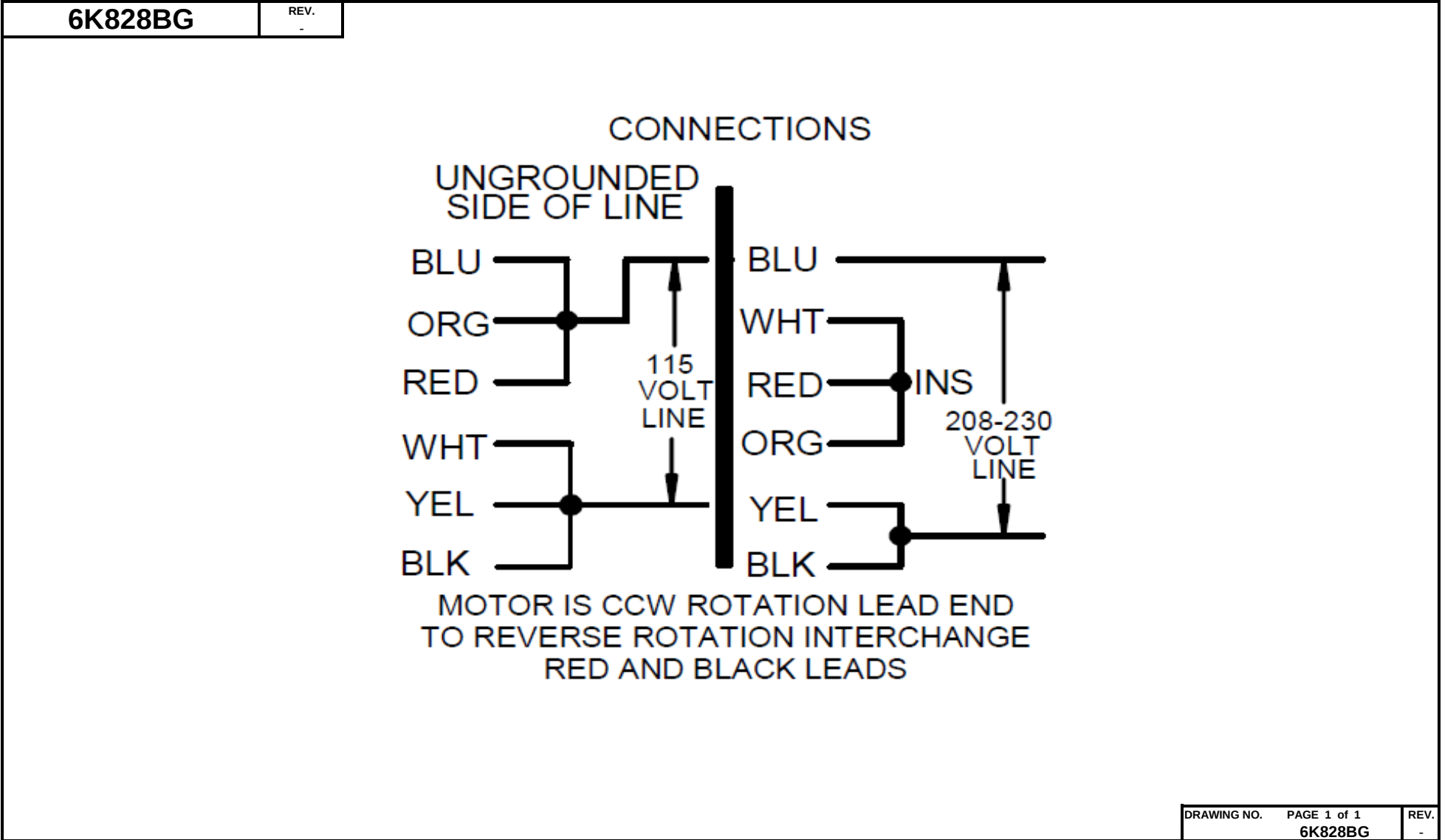
REV.
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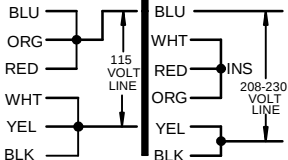
DRAWING NO.	PAGE 7 of 8	REV.
	6K828BG	-

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

Performance Data





Dayton[®]**INDUSTRIAL MOTOR****HP:** 1 1/2**VOLTS:** 115/208-230**AMPS:** 14.4/8.0-7.2**RPM:** 1725**DUTY:** CONT**SF:** 1.15**KVA CODE:** J**ENCL:** TEFC**THERMALLY PROTECTED:** NONEMFG. NO. PROT. CODE: **MTR REF:** T63DAW-2251**S.F. AT 208 V IS** 1.0**PH:** 1**HZ:** 60**FR:** 145T**INS CL:** B**AMB:** 40 °C**SFA:** 15.8/8.0-7.9AVG. F.L.
EFF.Part
No**6K828BG****Disconnect Power Before Making
Any Electrical Connections or Changes****CONNECTIONS**UNGROUND
SIDE OF LINE**MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS****Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA****Made in Mexico**