

Dayton®

©2019 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

Performance Data



6K045BG

REV.
-

MOTOR PERFORMANCE

HP:	1							
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	78.2	78.0					
Power Factor:	@ Rated Load	85.1	84.5					
Amps:	@ No Load							
	@ Rated Load	9.9	5.19	5				
	@ Service Factor	11	5.88	5.59				
	@ Locked Rotor	68.5	31.19	35.08				
RPM:	@ Rated Load	2.65	1736	1752				
Ambient (°C):	40							
Altitude (FASL):								
Torques:	Breakdown	142.6	114.96	143.6				
	Locked Rotor	146.8	109.97	132.08				
	Pull-Up	145.7	109.97	130.22				
	Rated Load	48.8	48.8	48.8				
	Service Factor	56.1	56.1	56.1				
Watts:	Rated Load	8.86	963	4.3				
KVA Code:	K	J	H	K				
Temperature Rise:	@ Rated Load	52	51.5	51.6				
	@ Service Factor	57.1	63.9	58.4				
Thermal Protector:	Trip Temp (°C)	NA	NA	NA				
Winding Material:	Start (Auxiliary)	Cu	Cu	Cu				
	Run (Main)	Al	Al	Al				
Capacitor(s):	Start (MFD / Volts)	238 mFd, 125 V						
	No. of Start Capacitors							
	Run (MFD / Volts)	30 mFd, 370 V						
	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
6K045BG

REV.
-

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

Performance Data



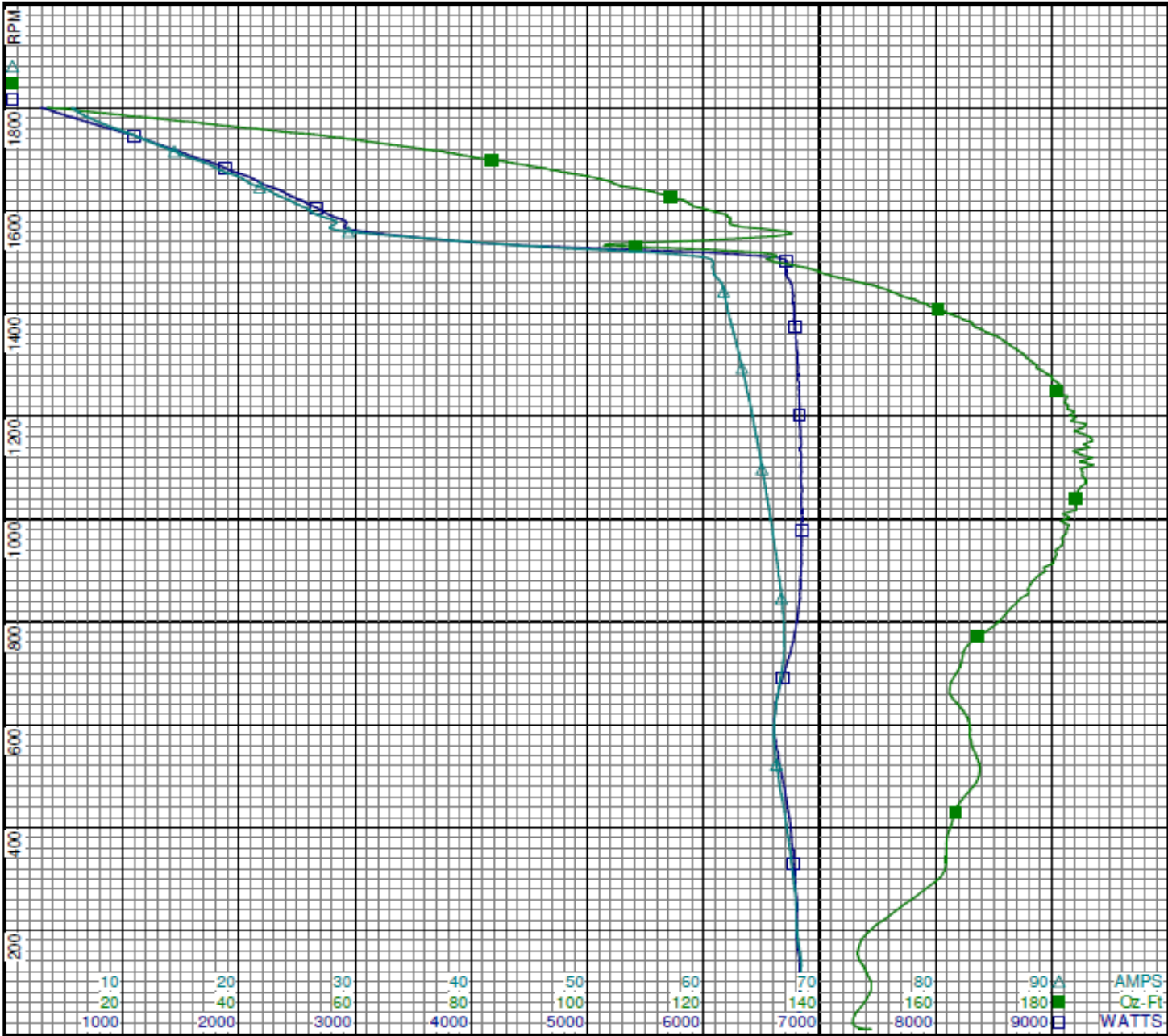
6K045BG		REV. -															
Dayton Manufacturing Company																	
Motor Description				Test Conditions													
Model:		T063DMV227101 6K045BG		Test Type:		Start		Run Cap: 30 µfd									
Motor ID:		1		Test Number:		1		Start Cap: 238 µfd									
Poles:		4		Poles:		4		Environment: 20.4 Deg C 44 % RH 995 hPa									
Volts:		115/208-230		Volts:		115		Tested: 9/18/2012 1:54:29 PM									
Frequency:		60		Hz:		60		Tested By: Sharp, Gerald									
HP:		1		Rotation:				Gear Ratio: 1:1									
Speed:		1725		Special Cond:		2-line		Bearing Friction: -0.16 Oz-Ft									
Phase:		1		Speed Conn:				Windage Torque: -2.56 Oz-Ft									
Protector:		NONE		TestBoard:		Amps Performance		Fixture #1									
Special Points		Vline (V)		Iline (A)		Watts		RPM		Tq (Oz-ft)		HP		Eff (%)		PF (%)	
PUT OZ-FT		115.0		68.45		6835		7		146.85		0.013		0.1		86.8	
		115.0		68.39		6826		19		145.71		0.032		0.4		86.8	
		115.0		68.37		6825		53		147.29		0.093		1.0		86.8	
		115.0		67.98		6803		210		149.68		0.374		4.1		87.0	
		115.0		67.43		6770		356		161.79		0.685		7.5		87.3	
		115.0		66.52		6684		488		166.96		0.970		10.8		87.4	
		115.0		66.12		6610		610		165.56		1.203		13.6		86.9	
		115.0		66.84		6721		722		164.38		1.413		15.7		87.4	
		115.0		66.80		6817		827		173.02		1.704		18.7		88.7	
		115.0		66.30		6841		923		180.38		1.981		21.6		89.7	
		115.0		65.69		6846		1010		181.89		2.187		23.8		90.6	
		115.0		65.09		6844		1091		185.26		2.406		26.2		91.4	
		115.0		64.49		6832		1165		185.48		2.572		28.1		92.1	
		115.0		63.92		6825		1232		182.37		2.675		29.2		92.8	
		115.0		63.34		6815		1294		177.27		2.731		29.9		93.6	
		115.0		62.73		6795		1349		171.30		2.752		30.2		94.2	
		115.0		62.13		6776		1401		161.90		2.699		29.7		94.8	
		115.0		61.71		6768		1447		151.41		2.608		28.7		95.4	
		115.0		60.78		6706		1488		137.80		2.442		27.2		95.9	
		115.0		48.33		5093		1526		115.87		2.105		30.8		91.6	
		115.0		27.82		2916		1566		129.08		2.406		61.6		91.1	
		115.0		26.28		2733		1596		122.14		2.321		63.4		90.4	
		115.0		23.70		2470		1626		114.30		2.213		66.8		90.6	
		115.0		20.99		2197		1652		104.58		2.057		69.8		91.0	
		115.0		18.48		1932		1678		94.80		1.893		73.1		90.9	
		115.0		16.03		1663		1700		82.23		1.664		74.7		90.2	
		115.0		13.57		1389		1723		69.94		1.434		77.1		89.0	
		115.0		11.31		1127		1743		56.08		1.163		77.0		86.6	
		115.0		8.76		806		1765		38.02		0.799		73.9		80.0	
		115.0		6.75		523		1784		21.32		0.453		64.5		67.5	
		115.0		5.64		296		1801		7.05		0.151		38.1		45.6	
DRAWING NO. PAGE 1 of 8 REV.																	
6K045BG																	

Performance Data



6K045BG

REV.
-



Curve Descriptions:
Motor(1) Test 1 Start 115V 60 Hz 4P
2-line
□ SPEED vs WATTS
■ SPEED vs TORQUE
△ SPEED vs ILine

Motor Ratings:
(1) T063DMV227101 6K045BG

DRAWING NO. PAGE 2 of 8 REV.
6K045BG -

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

Performance Data



6K045BG		REV. -												
Dayton Manufacturing Company														
Motor Description				Test Conditions										
Model:		T063DMV227101 6K045BG		Test Type:		Run		Run Cap:		30 µfd				
Motor ID:		1		Test Number:		3		Start Cap:		238 µfd				
Poles:		4		Poles:		4		Environment:		20.4 Deg C 44 % RH 995 hPa				
Volts:		115/208-230		Volts:		115		Tested:		9/18/2012 2:04:57 PM				
Frequency:		60		Hz:		60		Tested By:		Sharp, Gerald				
HP:		1		Rotation:				Gear Ratio:		1:1				
Speed:		1725		Special Cond:		3 line		Bearing Friction:		-0.16 Oz-Ft				
Phase:		1		Speed Conn:				Windage Torque:		-2.24 Oz-Ft				
Protector:		NONE		TestBoard:		Amps Performance		Fixture #1						
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	222.5	255.8	5.37	6.72	2.907	167	1797	0.00	0.000	0.0	26.9	30.1	
	115.0	219.3	250.0	5.88	6.40	2.832	364	1778	12.59	0.267	54.5	53.9	30.0	
	115.0	211.8	237.5	8.85	7.97	2.691	834	1760	40.72	0.853	76.3	82.0	30.1	
1 HP	115.0	209.3	234.0	9.80	8.75	2.655	957	1753	47.93	1.000	78.0	84.9	30.1	
48.8 OZ-FT	115.0	208.9	233.6	9.92	8.86	2.650	971	1752	48.80	1.018	78.2	85.1	30.1	
1.15 HP	115.0	206.0	230.0	10.96	9.80	2.611	1091	1744	55.40	1.150	78.6	86.6	30.1	
56.1 OZ-FT	115.0	205.8	229.7	11.07	9.90	2.607	1105	1743	56.10	1.164	78.6	86.8	30.1	
	115.0	205.5	229.2	11.23	10.04	2.602	1125	1741	57.11	1.184	78.5	87.0	30.1	
1725 RPM	115.0	200.5	222.7	13.15	11.84	2.538	1348	1725	69.04	1.418	78.4	89.2	30.2	
	115.0	199.0	221.0	13.64	12.32	2.518	1405	1721	71.83	1.471	78.1	89.5	30.2	
	115.0	192.3	212.7	16.28	14.91	2.431	1696	1700	85.58	1.732	76.2	90.6	30.3	
	115.0	185.7	204.7	18.78	17.41	2.348	1972	1678	97.92	1.956	74.0	91.3	30.4	
	115.0	178.9	196.7	21.33	20.01	2.265	2242	1653	109.02	2.146	71.4	91.4	30.5	
	115.0	171.6	188.4	24.03	22.74	2.179	2514	1628	118.11	2.289	67.9	91.0	30.7	
	115.0	163.9	180.2	26.69	25.45	2.095	2778	1600	126.40	2.407	64.6	90.5	30.8	
	115.0	156.2	172.2	29.39	28.22	2.008	3038	1569	133.00	2.484	61.0	89.9	30.9	
	115.0	148.5	164.1	32.04	30.97	1.922	3293	1536	137.42	2.512	56.9	89.4	31.1	
	115.0	140.5	156.4	34.72	33.75	1.836	3539	1499	140.52	2.508	52.9	88.6	31.1	
	115.0	132.5	148.8	37.35	36.47	1.754	3774	1460	142.33	2.475	48.9	87.9	31.3	
BDT OZ-FT	115.0	130.7	147.2	37.87	37.01	1.737	3818	1452	142.66	2.465	48.2	87.7	31.3	
	115.0	124.4	141.7	39.92	39.14	1.674	3992	1417	142.03	2.396	44.8	87.0	31.3	
	115.0	116.3	135.1	42.44	41.76	1.598	4200	1371	139.87	2.283	40.6	86.1	31.4	
	115.0	108.3	129.0	44.87	44.29	1.528	4395	1320	136.08	2.139	36.3	85.2	31.4	
	115.0	100.2	123.5	47.14	46.72	1.463	4560	1265	130.61	1.967	32.2	84.1	31.4	
	115.0	92.4	118.6	49.39	49.06	1.399	4720	1207	123.23	1.770	28.0	83.1	31.3	
	115.0	84.6	114.6	51.50	51.27	1.349	4862	1142	114.97	1.564	24.0	82.1	31.2	
	115.0	77.1	111.4	53.48	53.34	1.313	4991	1074	104.88	1.341	20.0	81.2	31.2	
	115.0	69.9	108.5	55.31	55.25	1.281	5103	998	93.19	1.107	16.2	80.2	31.3	
	115.0	62.5	106.5	57.02	57.06	1.252	5192	919	79.70	0.871	12.5	79.2	31.2	
	115.0	55.4	104.5	58.58	58.71	1.227	5265	832	64.98	0.644	9.1	78.2	31.1	
	115.0	48.0	102.5	59.88	60.11	1.199	5301	739	47.40	0.417	5.9	77.0	31.0	
	115.0	38.8	101.5	60.49	60.80	1.175	5272	642	39.19	0.299	4.2	75.8	30.7	
	115.0	29.3	106.3	60.18	60.61	1.219	5257	540	50.99	0.328	4.7	76.0	30.4	
	115.0	25.3	112.8	60.58	61.07	1.291	5341	430	53.39	0.274	3.8	76.7	30.4	
	115.0	22.0	115.3	61.41	61.95	1.311	5418	309	39.95	0.147	2.0	76.7	30.2	
	115.0	17.6	118.4	61.91	62.52	1.346	5450	180	20.91	0.045	0.6	76.5	30.2	
	115.0	15.6	122.6	62.18	62.88	1.405	5467	46	16.84	0.009	0.1	76.5	30.4	
											DRAWING NO.	PAGE 3 of 8		REV.
											6K045BG			
											-			

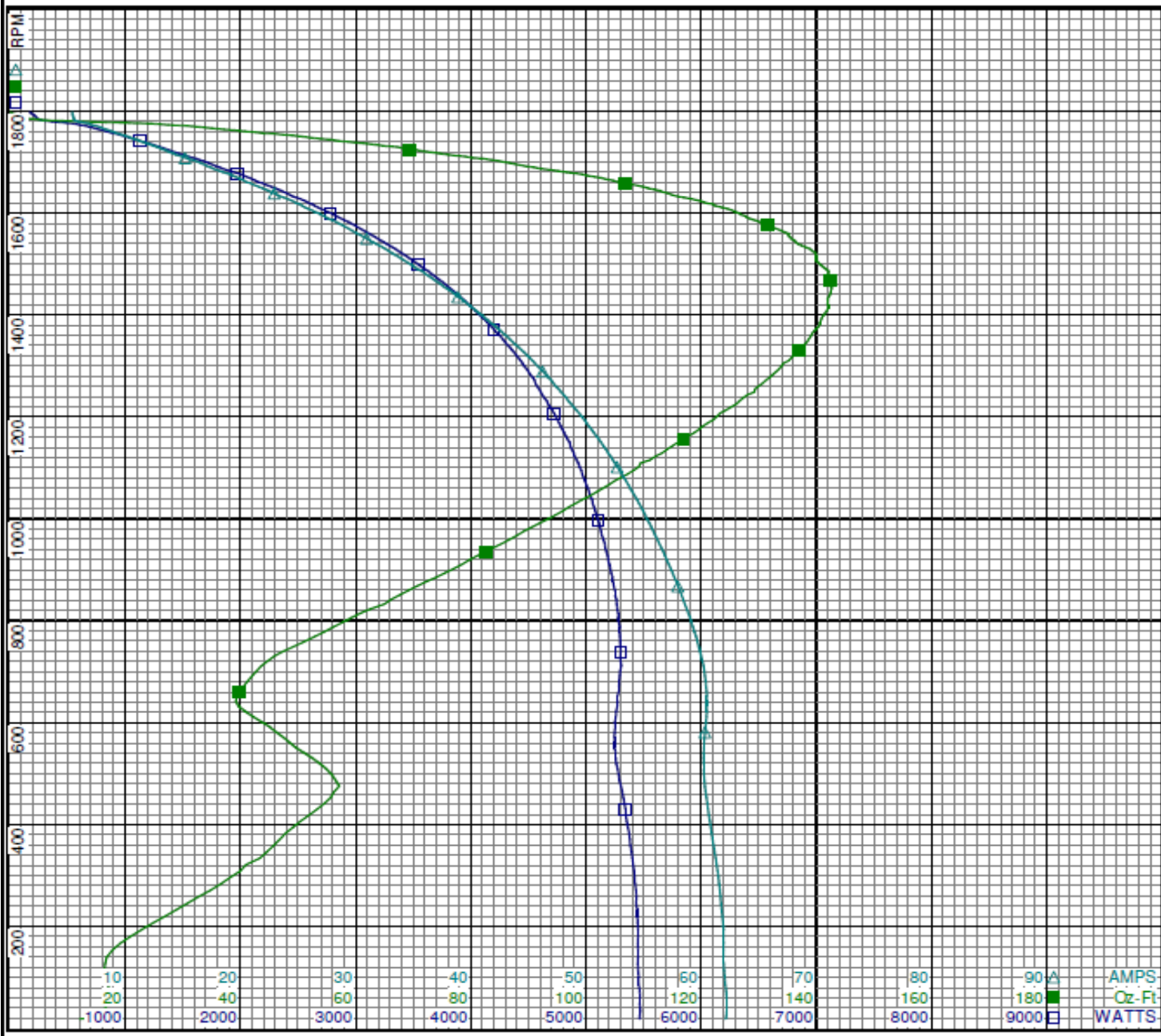
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



6K045BG

REV.
-



Curve Descriptions:
Motor(1) Test 3 Run 115V 60 Hz 4P
3 line
□ SPEED vs WATTS
■ SPEED vs TORQUE
△ SPEED vs ILine

Motor Ratings:
(1) T063DMV227101 6K045BG

Performance Data



6K045BG		REV. -						
Dayton Manufacturing Company								
Motor Description				Test Conditions				
Model:	T063DMV227101 6K045BG			Test Type:	Start	Run Cap:	30 µfd	
Motor ID:	1			Test Number:	6	Start Cap:	238µfd	
Poles:	4			Poles:	4	Environment:	20.4 Deg C 45 % RH 995 hPa	
Volts:	115/208-230			Volts:	230	Tested:	9/18/2012 12:37:45 PM	
Frequency:	60			Hz:	60	Tested By:	Sharp, Gerald	
HP:	1			Rotation:		Gear Ratio:	1:1	
Speed:	1725			Special Cond:	2 line	Bearing Friction:	-0.16 Oz-Ft	
Phase:	1			Speed Conn:		Windage Torque:	-2.08 Oz-Ft	
Protector:	NONE			TestBoard:	Amps Performance Fixture #1			
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	230.0	35.08	6857	7	132.08	0.010	0.1	85.0
PUT OZ-FT	230.0	35.06	6846	6	130.22	0.009	0.1	84.9
	230.0	34.99	6856	54	139.15	0.089	1.0	85.2
	230.0	34.84	6839	211	139.80	0.351	3.8	85.3
	230.0	34.53	6807	356	153.42	0.650	7.1	85.7
	230.0	34.05	6712	489	156.93	0.914	10.2	85.7
	230.0	33.82	6637	611	155.11	1.128	12.7	85.3
	230.0	34.12	6744	723	154.16	1.326	14.7	85.9
	230.0	34.04	6831	828	162.29	1.599	17.5	87.3
	230.0	33.71	6847	922	168.28	1.847	20.1	88.3
	230.0	33.35	6845	1011	173.82	2.092	22.8	89.2
	230.0	32.96	6827	1091	175.46	2.279	24.9	90.1
	230.0	32.57	6808	1166	175.76	2.439	26.7	90.9
	230.0	32.18	6783	1232	174.23	2.556	28.1	91.6
	230.0	31.78	6749	1294	169.70	2.614	28.9	92.3
	230.0	31.36	6718	1350	163.53	2.628	29.2	93.1
	230.0	30.96	6681	1401	154.78	2.582	28.8	93.8
	230.0	30.62	6645	1447	145.24	2.501	28.1	94.4
	230.0	30.05	6566	1489	132.52	2.349	26.7	95.0
	230.0	29.21	6388	1528	122.08	2.220	25.9	95.1
	230.0	14.19	2971	1565	132.19	2.463	61.8	91.0
	230.0	13.21	2745	1597	124.03	2.359	64.1	90.3
	230.0	11.92	2483	1626	116.46	2.254	67.7	90.6
	230.0	10.63	2215	1653	106.78	2.101	70.8	90.6
	230.0	9.36	1945	1677	95.80	1.913	73.4	90.4
	230.0	8.14	1684	1701	84.91	1.719	76.1	90.0
	230.0	6.86	1398	1722	70.86	1.453	77.5	88.6
	230.0	5.67	1115	1743	55.09	1.143	76.5	85.5
	230.0	4.43	811	1764	38.76	0.814	74.8	79.6
	230.0	3.47	530	1784	22.00	0.467	65.8	66.4
	230.0	2.87	268	1802	5.28	0.113	31.6	40.5

DRAWING NO. PAGE 5 of 8 REV.

6K045BG -

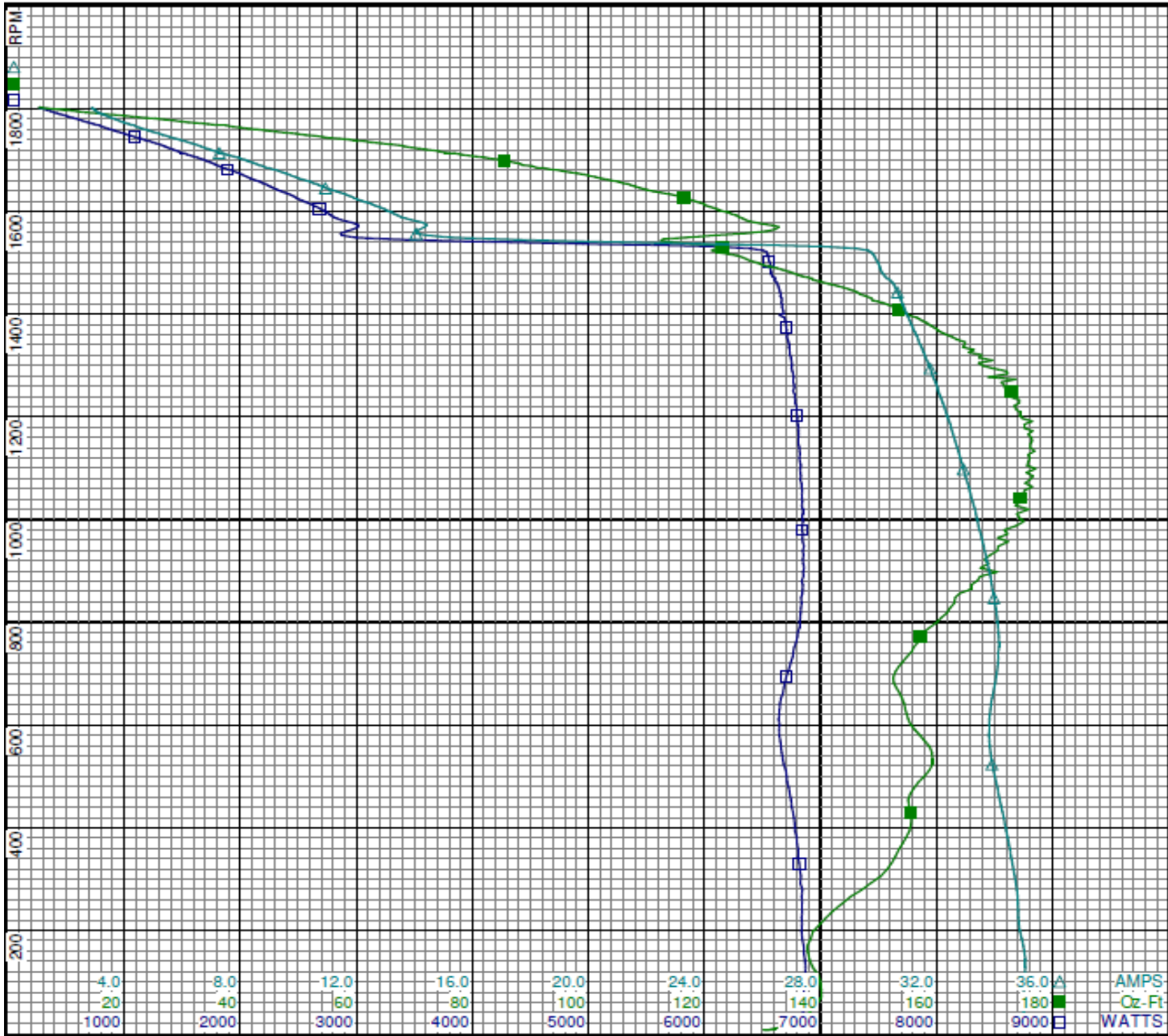
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



6K045BG

REV.
-



Curve Descriptions:

Motor(1) Test 6 Start 230V 60 Hz 4P
2 line

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

Motor Ratings:

(1) T063DMV227101 6K045BG

Performance Data



6K045BG		REV. -											
Dayton Manufacturing Company													
Motor Description				Test Conditions									
Model:		T063DMV227101 6K045BG		Test Type:		Run		Run Cap:		30 µfd			
Motor ID:		1		Test Number:		8		Start Cap:		238µfd			
Poles:		4		Poles:		4		Environment:		19.7 Deg C 51 % RH 994 hPa			
Volts:		115/208-230		Volts:		230		Tested:		9/18/2012 8:03:12 AM			
Frequency:		60		Hz:		60		Tested By:		Sharp, Gerald			
HP:		1		Rotation:				Gear Ratio:		1:1			
Speed:		1725		Special Cond:		3 line		Bearing Friction:		-0.32 Oz-Ft			
Phase:		1		Speed Conn:				Windage Torque:		-2.24 Oz-Ft			
Protector:		NONE		TestBoard:		Amps Performance		Fixture #1					
Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	Cap
	230.0	247.1	256.4	2.69	4.47	2.916	151	1803	0.00	0.000	0.0	24.3	30.2
	230.0	246.5	248.2	3.13	3.83	2.805	444	1785	17.40	0.370	62.1	61.8	30.0
	230.0	245.6	239.0	4.33	3.94	2.710	804	1765	38.98	0.819	76.0	80.7	30.1
1 HP	230.0	243.9	234.4	4.94	4.26	2.663	956	1753	47.92	1.000	78.0	84.2	30.1
48.8 OZ-FT	230.0	243.7	234.0	5.00	4.30	2.659	973	1752	48.80	1.018	78.0	84.5	30.1
	230.0	242.4	230.9	5.47	4.62	2.632	1082	1746	54.59	1.134	78.2	86.1	30.2
1.15 HP	230.0	242.2	230.5	5.53	4.67	2.629	1098	1744	55.39	1.150	78.2	86.3	30.3
56.1 OZ-FT	230.0	242.1	230.1	5.59	4.71	2.626	1112	1743	56.10	1.164	78.1	86.4	30.3
1725 RPM	230.0	239.8	223.1	6.62	5.53	2.551	1358	1725	69.21	1.421	78.1	89.1	30.3
	230.0	239.8	223.0	6.63	5.53	2.550	1359	1725	69.28	1.423	78.1	89.1	30.3
	230.0	236.3	214.7	7.90	6.69	2.465	1639	1705	83.26	1.690	76.9	90.2	30.5
	230.0	233.4	207.0	9.11	7.85	2.378	1907	1682	95.11	1.905	74.5	91.0	30.5
	230.0	229.8	198.8	10.45	9.20	2.290	2193	1659	106.60	2.105	71.6	91.2	30.6
	230.0	225.9	190.6	11.83	10.60	2.207	2477	1633	117.51	2.284	68.8	91.0	30.7
	230.0	221.6	182.4	13.20	12.03	2.123	2750	1606	125.61	2.401	65.1	90.6	30.9
	230.0	217.2	174.6	14.52	13.43	2.039	3005	1576	131.95	2.476	61.5	90.0	31.0
	230.0	212.3	166.5	15.90	14.89	1.952	3267	1542	137.88	2.531	57.8	89.4	31.1
	230.0	207.5	158.7	17.24	16.32	1.868	3516	1508	141.81	2.545	54.0	88.7	31.2
	230.0	202.7	151.3	18.57	17.74	1.785	3752	1468	143.49	2.508	49.9	87.9	31.3
BDT OZ-FT	230.0	198.7	145.5	19.61	18.87	1.720	3935	1436	143.64	2.455	46.5	87.2	31.4
	230.0	197.5	144.0	19.86	19.13	1.703	3975	1427	143.20	2.432	45.6	87.0	31.4
	230.0	192.5	137.3	21.14	20.51	1.628	4190	1382	141.53	2.328	41.4	86.2	31.4
	230.0	187.0	130.8	22.38	21.85	1.554	4383	1331	138.16	2.190	37.3	85.1	31.5
	230.0	181.8	125.2	23.56	23.14	1.487	4550	1277	132.79	2.019	33.1	84.0	31.5
	230.0	176.4	120.0	24.69	24.38	1.424	4710	1219	126.13	1.831	29.0	82.9	31.5
	230.0	171.1	115.6	25.78	25.56	1.370	4856	1156	117.59	1.618	24.9	81.9	31.4
	230.0	166.0	111.9	26.78	26.66	1.323	4981	1087	107.56	1.392	20.8	80.9	31.4
	230.0	161.0	108.8	27.72	27.69	1.288	5098	1014	96.22	1.161	17.0	80.0	31.4
	230.0	156.5	106.2	28.60	28.66	1.257	5195	935	83.26	0.927	13.3	79.0	31.4
	230.0	152.0	104.0	29.41	29.57	1.229	5271	850	68.09	0.689	9.7	77.9	31.4
	230.0	147.8	101.5	30.11	30.34	1.186	5309	758	51.44	0.464	6.5	76.7	31.0
	230.0	143.0	99.7	30.51	30.85	1.162	5294	661	39.41	0.310	4.4	75.5	30.9
	230.0	134.9	102.7	30.41	30.86	1.186	5262	561	48.01	0.320	4.5	75.2	30.6
	230.0	126.6	109.6	30.50	31.02	1.251	5332	453	55.36	0.299	4.2	76.0	30.3
	230.0	122.5	112.6	30.90	31.47	1.281	5416	334	42.39	0.168	2.3	76.2	30.2
	230.0	118.3	115.0	31.23	31.86	1.305	5467	206	24.87	0.061	0.8	76.1	30.1
	230.0	112.7	118.8	31.35	32.06	1.354	5476	72	16.76	0.014	0.2	75.9	30.2
DRAWING NO.											PAGE 7 of 8		REV.
6K045BG													

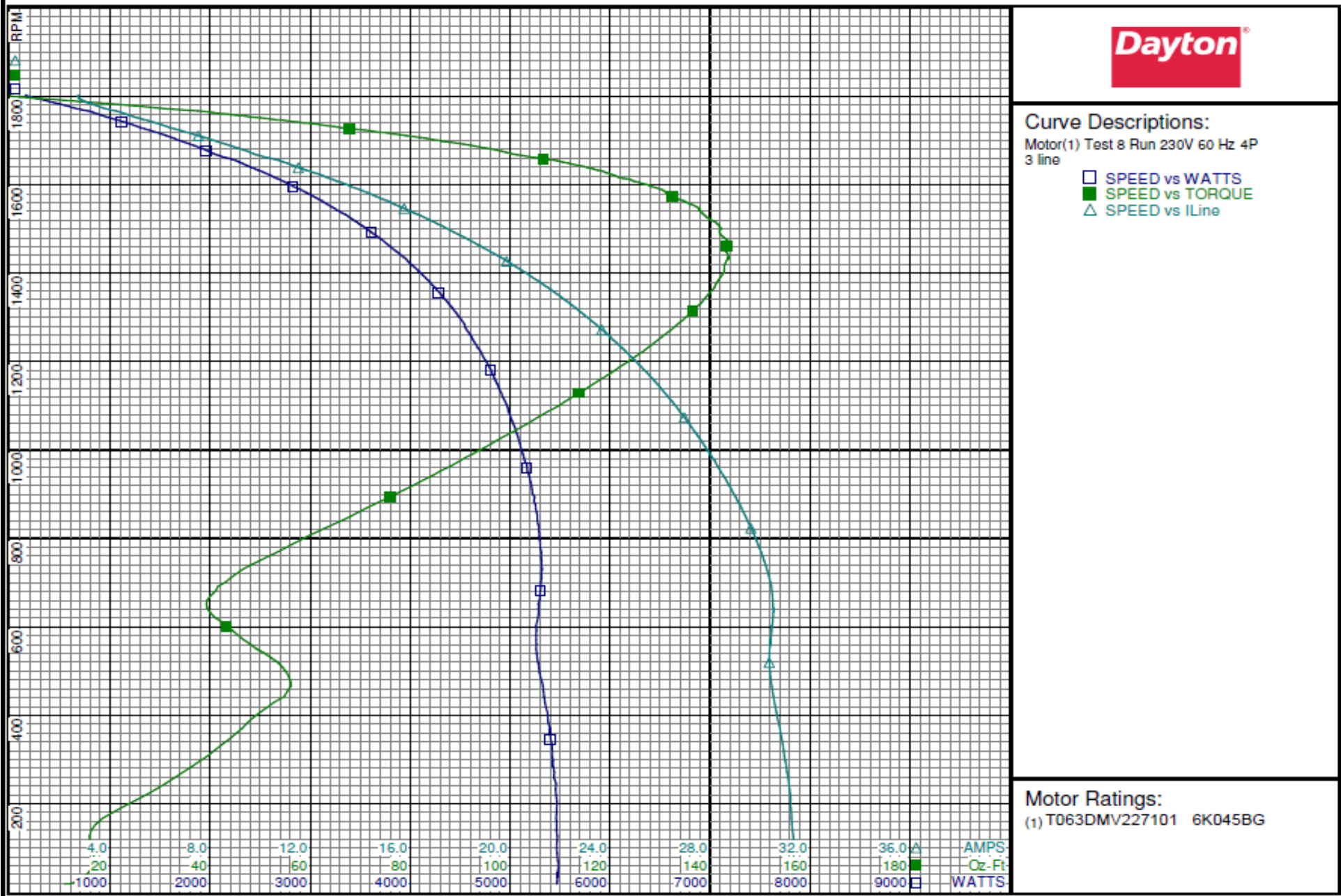
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data

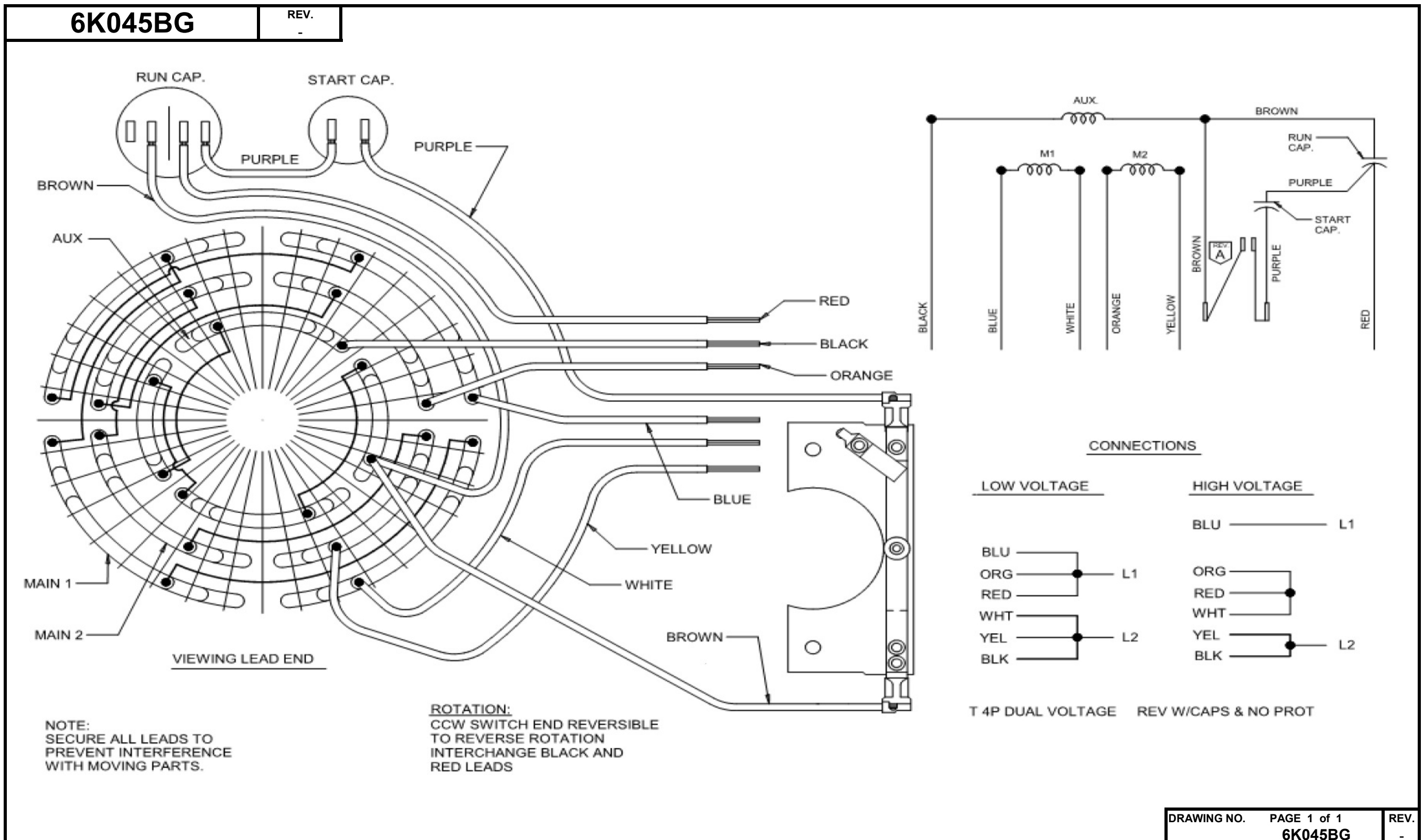


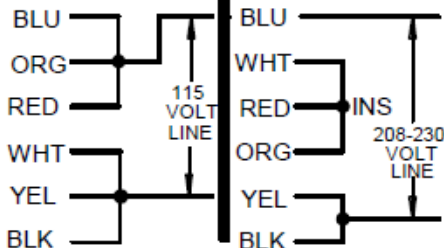
6K045BG

REV.
-



Wiring Diagram



Dayton[®]**INDUSTRIAL MOTOR****HP: 1.0****VOLTS: 115/208-230****AMPS: 9.9/5.2-5.0****RPM: 1725****DUTY: CONT****SF: 1.15****KVA CODE: J****ENCL: TEFC****THERMALLY PROTECTED: NONE**MFG. NO. PROT. CODE: **MTR REF: T63DMV-2271**Part
No **6K045BG****PH: 1****HZ: 60****FR: 56HC****INS CL: B****AMB: 40 °C****SFA: 11.1/5.2-5.0**AVG. F.L.
EFF.**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