

Dimensional Drawing

6GC95BG		REV. -										
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MODEL	REF	CUSTOMER	HP	VOLTS	SF	AMPS	HZ	RPM	ROTATION	CUSTOMER PT. NO.	PROT.	DESCRIPTION / REMARKS
K55HXSBBH-2307		GRAINGER	1.0	277	1.0	6.9	60	1075/3SPD	CCW LE REV	6GC95BG	AUTO	DIRECT DRIVE BLOWER, 48YZ

#16 GREEN GROUND LEAD TO BE 12±.250 BETWEEN CENTERS OF TERMS TERM TO FIT #10 SCREW

AUTOMATIC THERMAL PROTECTOR

5.625

4.000 +2-0

(2) .250 STRAIGHT TYPE Q.C. TERMS.

SPLIT IN MTG. RING

TO EXTEND BEYOND MOTOR LEADS SKINNED .750±.062 PURPLE (C), BLACK (1), BLUE (2) & RED (3)

6 LEADS #18, .062 THICK INSUL TO EXTEND BEYOND MOTOR PUR(C)=24.000 +2-0, BLK(1)=23.250 +2-0, BLU(2)=23.250 +2-0, RED(3)=23.250 +2-0, BRWN=24.000 +2-0, BRW/WHT=24.000 +2-0 FIGURES TO BE PRINTED ON LEADS

13.902

13.357

6.562

6.250 ±.047

6.219

5.500

5.000 +.0000 -0.0005

1.560 ±.062

NAMEPLATE ASM

TOP

ROTATION WARNING LABEL

WARNING LABEL

NOTE: KIT - 2 1/2 IN MTG RING CONVERSION SHIPPED IN CARTON

5.125 DIA B.C.

45°

SPLIT IN MTG. RING

COIL END SLEEVING AT THESE LOCATIONS

MALE

FEMALE

AUX.

ORG

ORG

BRN

BRN/WHT

M1-1/2

M1-1/2

M2

M3

BLK (1)

BLU (2)

RED (3)

LACE LEADS TO WINDING

PROTECTOR

COLOR CODE

PURPLE - COMMON

BLACK - HIGH

BLUE - MED.

RED - LOW

BROWN - CAP

BROWN/WHT - CAP

ROTATION CCW LE REV TO REVERSE ROTATION INTERCHANGE YELLOW AND ORANGE LEADS

6GC95BG

REV.
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MOTOR PERFORMANCE

HP:	1.0 HP								
Poles:	6P								
No. of Speeds:	1speed								
Volts:	277		277						
HZ:	60		60						
Service Factor:	1								
Efficiency:	@ Rated Load		69.1						
Power Factor:	@ Rated Load		97.5						
Amps:	@ No Load								
	@ Rated Load		4.02						
	@ Service Factor		N/A						
	@ Locked Rotor		8.3						
RPM:	@ Rated Load		1081						
Ambient (°C):	40								
Altitude (FASL):									
Torques:	Breakdown		104.8						
	Locked Rotor		34.2						
	Pull-Up		32.8						
	Rated Load		78.1						
	Service Factor		N/A						
Watts:	Rated Load		1085						
KVA Code:									
Temperature Rise:	@ Rated Load		OPAO						
	@ Service Factor								
Thermal Protector:	Trip Temp (°C)								
Winding Material:	Start (Auxiliary)								Cu
	Run (Main)								Cu
Capacitor(s):	Start (MFD / Volts)								N/A
	No. of Start Capacitors								
	Run (MFD / Volts)								30MFD / 370V
	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								

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6GC95BG -

Performance Data



6GC95BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: K55ZZSBH-2307 6GC95BG
 Motor ID: 1
 Poles: 6
 Volts: 277
 Frequency: 60
 HP: 1.0
 Speed: 1075
 Phase: 1
 Protector: AUTO

Test Conditions

Test Type: Start
 Test Number: 5
 Poles: 6
 Volts: 277
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Amtps Performance Fixture #1
 Run Cap: 30 mfd 370 volt
 Start Cap:
 Environment: 20.9 Deg C 31 % RH 993 hPa
 Tested: 12/8/2015 9:59:33 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.74 Oz-Ft
 Windage Torque: -51.54 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	277.0	65.4	321.3	8.316	1985.1	5	34.23	0.002	0.1	86.2
PUT OZ-FT	277.0	65.5	321.0	8.321	1986.9	6	32.77	0.002	0.1	86.2
	277.0	64.8	320.9	8.314	1987.4	28	35.26	0.012	0.4	86.3
	277.0	65.1	317.8	8.260	1980.5	125	40.43	0.060	2.3	86.6
	277.0	66.2	314.9	8.194	1972.8	214	47.42	0.121	4.6	86.9
	277.0	67.8	312.6	8.104	1964.5	297	52.86	0.187	7.1	87.5
	277.0	70.7	309.6	7.991	1951.5	374	59.06	0.263	10.1	88.2
	277.0	74.3	307.8	7.874	1938.2	445	64.37	0.341	13.1	88.9
	277.0	79.4	306.8	7.744	1927.5	511	70.61	0.430	16.6	89.9
	277.0	84.9	306.4	7.597	1913.9	573	76.88	0.524	20.4	90.9
	277.0	90.5	306.2	7.426	1893.5	630	82.81	0.621	24.5	92.0
	277.0	96.5	306.4	7.238	1869.8	682	87.98	0.715	28.5	93.3
	277.0	102.6	307.1	7.039	1838.4	731	92.63	0.806	32.7	94.3
	277.0	109.3	308.3	6.814	1799.5	777	96.53	0.893	37.0	95.3
	277.0	116.1	309.7	6.594	1763.0	816	99.64	0.968	41.0	96.5
	277.0	123.2	312.0	6.350	1713.4	855	101.78	1.036	45.1	97.4
	277.0	130.5	314.8	6.097	1658.3	891	103.12	1.093	49.2	98.2
	277.0	137.7	317.9	5.836	1599.1	922	103.25	1.134	52.9	98.9
	277.0	145.4	321.8	5.570	1534.4	952	102.62	1.163	56.5	99.5
	277.0	152.9	326.1	5.297	1465.6	979	100.63	1.173	59.7	99.9
	277.0	160.5	330.7	5.021	1391.2	1003	97.57	1.166	62.5	100.0
	277.0	167.6	335.5	4.752	1315.2	1026	93.63	1.144	64.9	99.9
	277.0	174.9	340.5	4.507	1240.8	1047	88.74	1.106	66.5	99.4
	277.0	181.7	345.8	4.234	1157.8	1066	82.81	1.051	67.7	98.7
	277.0	188.2	351.1	3.984	1077.7	1083	76.17	0.982	68.0	97.7
	277.0	194.6	356.7	3.729	994.1	1099	68.96	0.902	67.7	96.2
	277.0	200.4	362.5	3.480	908.4	1115	60.63	0.805	66.1	94.2
	277.0	206.0	368.9	3.261	824.4	1129	52.42	0.704	63.7	91.3
	277.0	211.1	376.6	3.091	744.8	1141	43.62	0.593	59.4	87.0
	277.0	215.8	383.9	2.926	667.3	1154	34.26	0.471	52.6	82.3
	277.0	219.9	391.3	2.617	564.2	1168	22.61	0.314	41.6	77.8
	277.0	222.9	397.1	2.304	474.0	1180	11.71	0.165	25.9	74.3
	277.0	225.6	402.9	1.954	385.1	1193	0.00	0.000	0.0	71.2

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6GC95BG -

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

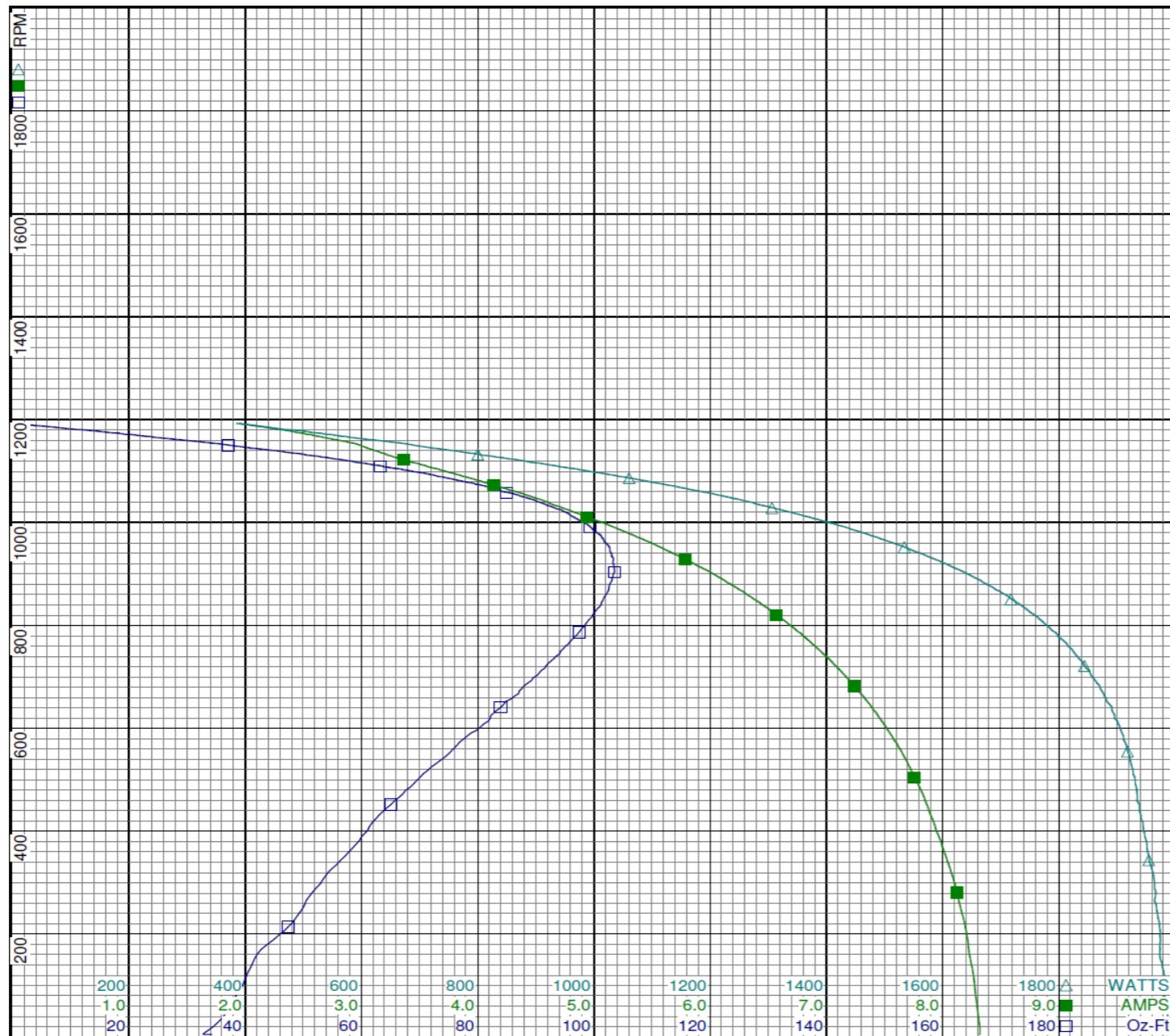
Performance Data



6GC95BG

REV.

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Curve Descriptions:

Motor(1) Test 5 Start 277V 60 Hz 6P
30ufd Run

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

Motor Ratings:

(1) K55ZSBH-2307 ID: 1
6GC95BG

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

Performance Data



6GC95BG	REV. -
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Dayton Manufacturing Company

Motor Description

Model: K55ZZSBH-2307 6GC95BG
 Motor ID: 1
 Poles: 6
 Volts: 277
 Frequency: 60
 HP: 1.0
 Speed: 1075
 Phase: 1
 Protector: AUTO

Test Conditions

Test Type: Run
 Test Number: 3
 Poles: 6
 Volts: 277
 Hz: 60
 Rotation: high
 Special Cond: high
 Speed Conn:
 TestBoard: Amtps Performance Fixture #1
 Run Cap: 30 mfd 370 volt
 Start Cap:
 Environment: 20.9 Deg C 30 % RH 993 hPa
 Tested: 12/8/2015 9:50:38 AM
 Tested By: Sharp, Gerald
 Gear Ratio: 1:1
 Bearing Friction: -0.79 Oz-Ft
 Windage Torque: -2.78 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	277.0	225.3	402.7	1.905	376.1	1190	0.00	0.000	0.0	71.3
	277.0	222.6	396.6	2.301	475.7	1177	12.91	0.181	28.4	74.6
	277.0	219.9	390.8	2.632	563.6	1166	23.63	0.328	43.4	77.3
	277.0	216.2	384.5	2.905	651.4	1153	33.81	0.464	53.1	81.0
	277.0	211.4	376.8	3.100	736.9	1139	43.75	0.593	60.1	85.8
	277.0	204.8	367.3	3.287	831.2	1125	54.22	0.726	65.1	91.3
	277.0	199.0	360.3	3.554	930.2	1109	63.99	0.845	67.8	94.5
	277.0	192.3	354.3	3.827	1022.0	1093	72.32	0.941	68.7	96.4
78.1 OZ-FT	277.0	187.7	350.2	4.018	1085.2	1081	78.10	1.005	69.1	97.5
1 HP	277.0	188.0	350.5	4.005	1080.8	1082	77.66	1.000	69.0	97.4
	277.0	185.1	348.3	4.113	1115.3	1075	80.43	1.030	68.9	97.9
1075 RPM	277.0	185.0	348.2	4.116	1116.5	1075	80.54	1.031	68.9	97.9
	277.0	178.0	342.5	4.400	1206.7	1055	87.33	1.096	67.8	9
	277.0	174.9	340.4	4.517	1241.2	1047	89.90	1.121	67.4	99.2
	277.0	170.3	337.0	4.667	1287.1	1034	92.91	1.144	66.3	99.6
	277.0	162.5	331.7	4.963	1374.0	1010	97.66	1.175	63.8	99.9
	277.0	154.6	326.6	5.257	1453.2	985	101.28	1.188	61.0	99.8
	277.0	146.8	322.1	5.548	1528.8	958	103.46	1.179	57.6	99.5
	277.0	139.0	318.1	5.830	1597.6	927	104.67	1.155	53.9	98.9
BDT OZ-FT	277.0	137.1	317.5	5.888	1608.9	921	104.84	1.149	53.3	98.7
	277.0	131.4	314.8	6.105	1661.1	894	104.58	1.113	50.0	98.2
	277.0	123.7	311.8	6.365	1716.2	858	103.21	1.055	45.8	97.3
	277.0	116.5	309.6	6.615	1767.6	820	101.09	0.986	41.6	96.5
	277.0	109.5	307.9	6.847	1809.9	778	97.72	0.905	37.3	95.4
	277.0	102.7	306.7	7.061	1844.2	733	93.71	0.818	33.1	94.3
	277.0	96.7	306.2	7.261	1875.1	685	89.18	0.727	28.9	93.2
	277.0	90.9	306.0	7.447	1900.4	633	83.65	0.630	24.7	92.1
	277.0	85.3	306.2	7.611	1918.6	576	78.42	0.538	20.9	91.0
	277.0	80.1	306.8	7.755	1933.2	516	72.20	0.444	17.1	90.0
	277.0	75.6	307.6	7.874	1942.9	451	65.64	0.353	13.5	89.1
	277.0	71.1	309.3	7.984	1952.1	383	59.78	0.272	10.4	88.3
	277.0	68.4	312.1	8.087	1963.6	310	53.71	0.198	7.5	87.7
	277.0	66.8	314.2	8.165	1973.2	231	48.83	0.134	5.1	87.2
	277.0	65.4	317.4	8.244	1983.7	148	41.54	0.073	2.8	86.9

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

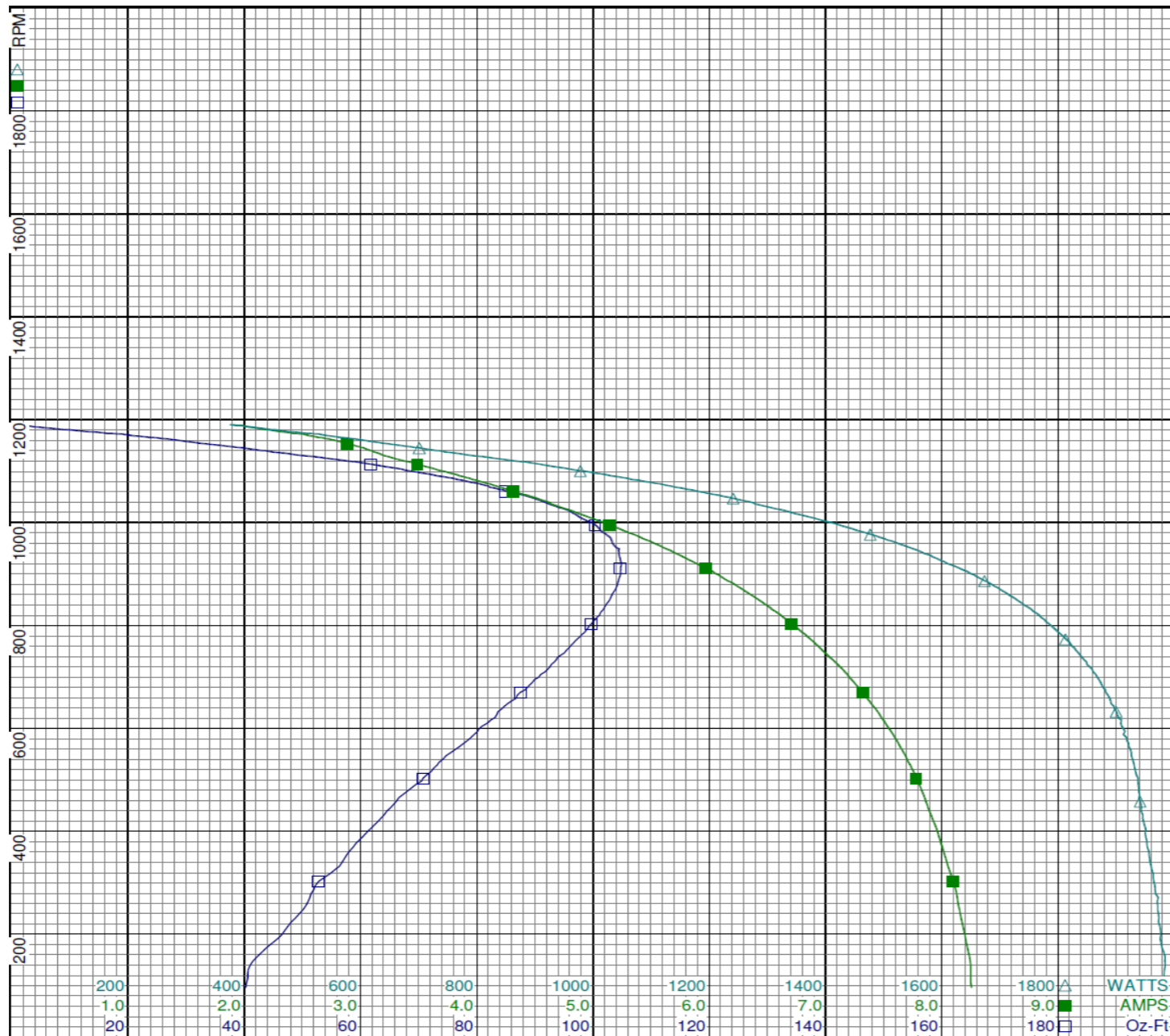
Performance Data



6GC95BG

REV.

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Curve Descriptions:

Motor(1) Test 3 Run 277V 60 Hz 6P
high 30ufd Run

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

Motor Ratings:

(1) K55ZSBH-2307 ID: 1
6GC95BG

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

6GC95BG

REV.
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CONNECTIONS

COM	C	PURPLE
HI	1	BLACK
MED	2	BLUE
LO	3	RED
CAP	-	BROWN
CAP	-	BROWN/WHITE

ROTATION IS CCW LEAD END
TO REVERSE ROTATION
INTERCHANGE ORG AND YEL LEADS

DRAWING NO.	PAGE 1 of 1	REV.
6GC95BG		-

Dayton®

DIRECT DRIVE BLOWER MOTOR

HP: 1.0

VOLTS: 277

AMPS: 6.9

RPM: 1075/3SPD

DUTY: CONT

SF: 1.0

KVA CODE:

ENCL: OAO

THERMALLY PROTECTED: AUTO

MFG. NO. PROT. CODE: 7A010AVG. F.L. 59.9
EFF.

MTR REF: K55HXSBBH-2307



Part No 6GC95BG

PH: 1

HZ: 60

FR: 48YZ

INS CL: B

AMB: 40 °C

SFA: 6.9

Disconnect Power Before Making Any
Electrical Connections or Changes

CONNECTIONS

COM	C	PURPLE
HI	1	BLACK
MED	2	BLUE
LO	3	RED
CAP	-	BROWN
CAP	-	BROWN/WHITE



E37403



258501

30.0 MFD 370 VAC
CAP. REQD.ROTATION IS CCW LEAD END
TO REVERSE ROTATION
INTERCHANGE ORG AND YEL LEADS

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

Made in Mexico