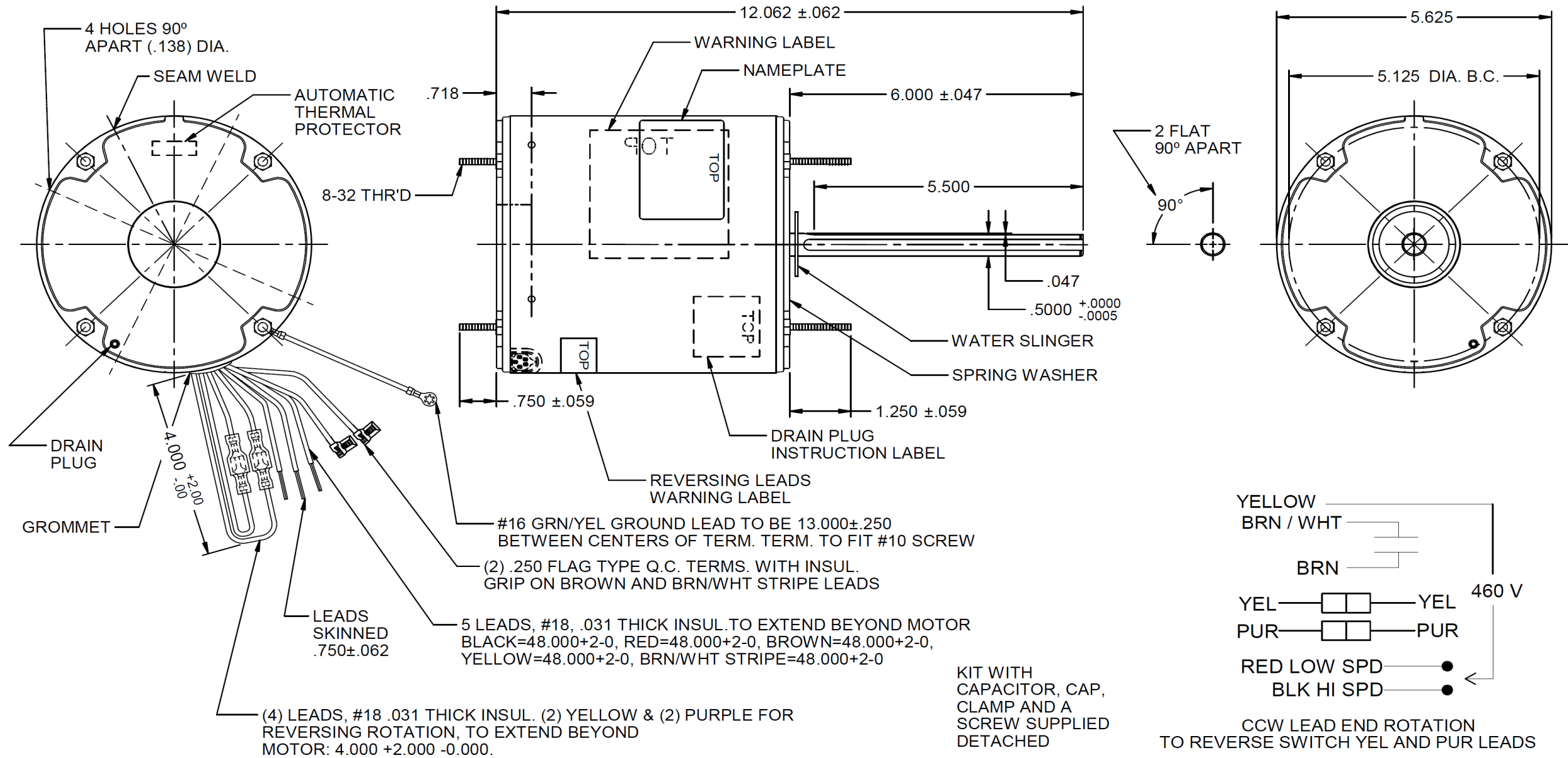


Dimensional Drawing



5RHU7BG REV. -

MODEL	REF	CUSTOMER	HP	VOLTS	AMPS	HZ	RPM	ROTATION	CUSTOMER PN	DESCRIPTION / REMARKS
K55HXMLW-2489	C43150	GRAINGER	1/2-1/5	460	1.5-0.8	60	825/2 SPD	C.CW LEAD END REV	5RHU7BG	CONDENSER FAN, STUD MTG.



DRAWING NO. PAGE 1 of 1 REV.
5RHU7BG -

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

5RHU7BG

REV.

-

SHADED-POLE & PSC MOTOR PERFORMANCE

HP:	1/5							
Poles:	8							
Ambient (°C):	70							
Altitude (FASL):								
No. of Speeds:	2							
HIGH SPEED								
Volts:	460	460	460					
HZ:	60	60	60					
Service Factor:	1							
Efficiency:	@ Rated Load	58.20	43.20					
Power Factor:	@ Rated Load	85.10	71.30					
Amps:	@ No Load	0.90	0.90					
	@ Rated Load	1.64	1.05					
	@ Locked Rotor	3.60						
RPM:	@ Rated Load	834.00	877.00					
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown	62.70	62.70					
	Locked Rotor	10.20	10.20					
	Pull-Up							
	Rated Load	50.35	19.15					
	Service Factor	834.00	877.00					
Watts:	Rated Load	640.40	345.50					
Temperature Rise:	@ Rated Load							
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)						Cu	
	Run (Main)						Cu	
Capacitor:	Run (MFD / Volts)							
	No. of Run Capacitors							
MEDIUM-HIGH SPEED								
HP:								
Volts:								
HZ:								
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
	@ Locked Rotor							
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown							
	Locked Rotor							
	Pull-Up							
	Rated Load							
Watts:	Rated Load							
Temperature Rise:	@ Rated Load							

DRAWING NO. PAGE 1 REV.
5RHU7BG -

5RHU7BG

REV.

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SHADED-POLE & PSC MOTOR PERFORMANCE

MEDIUM-LOW SPEED

HP:								
Volts:								
HZ:								
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown							
	Locked Rotor							
	Pull-Up							
	Rated Load							
Watts:	Rated Load							
Temperature Rise:	@ Rated Load							
Watts:	Rated Load							
Temperature Rise:	@ Rated Load							
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)							
	Run (Main)							

LOW SPEED

HP:	1/5							
Volts:	460	460						
HZ:	60	60						
Efficiency:	@ Rated Load	49.80						
Power Factor:	@ Rated Load	78.10						
Amps:	@ No Load	0.64						
	@ Rated Load	0.83						
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown	44.10						
	Locked Rotor							
	Pull-Up							
	Rated Load	19.33						
Watts:	Rated Load	299.20						
Temperature Rise:	@ Rated Load							

Notes:

DRAWING NO. PAGE 1 REV.
5RHU7BG -

Performance Data



5RHU7BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: K55HXMLW-2489 5RHU7BG
 Motor ID:
 Poles: 8
 Volts: 460
 Frequency: 60
 HP: 1/2-1/5
 Speed: 825
 Phase: 1
 Protector: 7AM036-A5

Test Conditions

Test Type: Run
 Test Number: 1
 Poles: 8
 Volts: 460
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn: M1
 TestBoard: CMD InLine Three Phase #2 Fixture #1
 Run Cap: 0
 Start Cap: 0µfd
 Environment:
 Tested: 6/6/2016 12:49:43 PM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.60 Oz-Ft
 Windage Torque: -2.36 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	460.0	292.4	325.9	0.898	205.5	894	0.00	0.000	0.0	49.8
	460.0	292.6	324.4	0.909	218.2	892	1.61	0.017	5.9	52.2
	460.0	293.6	318.6	0.953	266.9	887	8.23	0.087	24.3	60.9
	460.0	294.6	313.8	1.002	310.6	882	14.76	0.155	37.2	67.4
	460.0	295.0	306.9	1.080	365.7	875	22.22	0.231	47.2	73.6
	460.0	295.7	298.7	1.202	434.3	867	30.08	0.310	53.3	78.5
32.568 OZ-FT	460.0	295.8	296.1	1.244	456.3	864	32.57	0.335	54.7	79.7
	460.0	295.8	289.5	1.353	512.4	855	38.83	0.395	57.6	82.3
MAX %	460.0	294.9	280.4	1.521	590.6	843	46.25	0.464	58.6	84.4
50.196 OZ-FT	460.0	294.0	274.9	1.632	638.5	835	50.20	0.499	58.3	85.1
	460.0	293.1	270.7	1.717	674.9	828	52.77	0.520	57.5	85.4
	460.0	290.4	261.7	1.918	755.8	812	57.86	0.559	55.2	85.7
	460.0	286.0	252.3	2.157	844.2	789	61.02	0.573	50.7	85.1
MAX HP	460.0	285.7	250.9	2.188	857.0	785	62.07	0.580	50.5	85.1
BDT OZ-FT	460.0	282.6	246.6	2.317	900.9	770	62.66	0.574	47.6	84.5
	460.0	282.6	246.6	2.317	900.9	770	62.66	0.574	47.6	84.5
	460.0	277.7	241.2	2.502	959.4	745	62.05	0.551	42.8	83.4
	460.0	272.6	237.4	2.672	1008.9	718	60.21	0.515	38.0	82.1
	460.0	267.3	235.0	2.824	1048.2	688	57.12	0.468	33.3	80.7
	460.0	261.7	233.9	2.960	1079.4	654	53.03	0.413	28.5	79.3
	460.0	256.3	233.9	3.082	1103.6	616	48.21	0.353	23.9	77.9
	460.0	251.2	234.5	3.183	1121.0	576	43.48	0.298	19.8	76.6
	460.0	246.4	235.6	3.271	1134.1	532	38.84	0.246	16.2	75.4
	460.0	241.6	237.2	3.346	1143.4	483	33.78	0.194	12.7	74.3
	460.0	237.4	239.0	3.408	1149.8	434	29.55	0.153	9.9	73.3
	460.0	233.2	241.0	3.462	1154.4	378	25.05	0.113	7.3	72.5
	460.0	229.2	243.1	3.504	1156.4	317	20.89	0.079	5.1	71.7
	460.0	225.2	245.5	3.539	1158.5	252	17.57	0.053	3.4	71.2
	460.0	220.6	248.7	3.564	1157.9	166	11.59	0.023	1.5	70.6
	460.0	217.7	250.5	3.571	1157.1	104	12.72	0.016	1.0	70.4

DRAWING NO. PAGE 1 of 4 REV.
5RHU7BG -

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

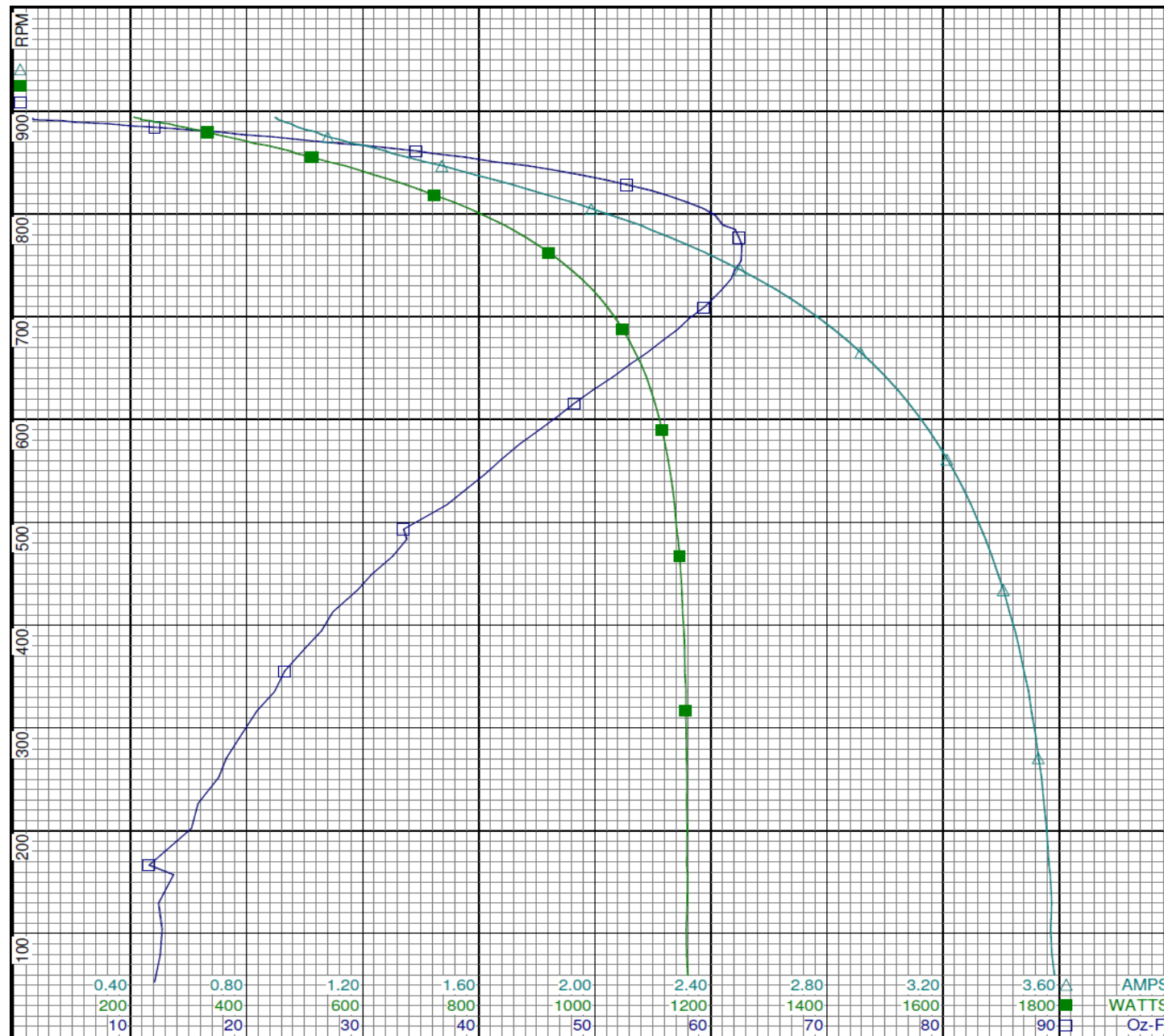
Performance Data



5RHU7BG

REV.

-



Curve Descriptions:

Motor(1) Test 1 Run 460V 60 Hz 8P M1

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

Motor Ratings:

(1) K55HXMLMW-2489 ID: 5RHU7BG

DRAWING NO.	PAGE 2 of 4	REV.
5RHU7BG		-

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

Performance Data



5RHU7BG

REV.

-

Dayton Manufacturing Company

Motor Description

Model: K55HXMLMW-2489 5RHU7BG
 Motor ID:
 Poles: 8
 Volts: 460
 Frequency: 60
 HP: 1/2-1/5
 Speed: 825
 Phase: 1
 Protector: 7AM036-A5

Test Conditions

Test Type: Run
 Test Number: 2
 Poles: 8
 Volts: 460
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn: M2
 TestBoard: CMD InLine Three Phase #2 Fixture #1
 Run Cap: 0
 Start Cap: 0µfd
 Environment:
 Tested: 6/6/2016 12:55:48 PM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.61 Oz-Ft
 Windage Torque: -2.00 Oz-Ft

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	460.0	251.5	277.0	0.641	152.3	894	0.00	0.000	0.0	51.6
	460.0	251.8	275.2	0.647	164.2	892	1.60	0.017	7.7	55.2
	460.0	252.1	271.5	0.671	187.9	887	5.68	0.060	23.8	60.8
	460.0	252.1	265.5	0.719	228.5	881	10.18	0.107	34.9	69.1
	460.0	251.8	259.7	0.779	265.9	875	15.11	0.157	44.2	74.2
19.355 OZ-FT	460.0	251.6	254.4	0.833	299.5	869	19.36	0.200	49.9	78.2
	460.0	251.3	251.3	0.867	318.2	865	21.62	0.223	52.2	79.8
24.525 OZ-FT	460.0	251.2	247.4	0.917	344.2	861	24.53	0.251	54.5	81.6
	460.0	250.6	242.5	0.981	375.7	855	27.62	0.281	55.8	83.2
	460.0	249.0	233.8	1.104	433.2	842	32.32	0.324	55.8	85.3
MAX %	460.0	247.7	227.7	1.194	474.0	833	36.26	0.359	56.6	86.3
	460.0	246.8	225.0	1.237	492.1	828	37.47	0.369	56.0	86.5
	460.0	243.7	216.4	1.383	551.4	811	40.87	0.395	53.4	86.7
	460.0	240.1	208.7	1.524	606.1	792	43.16	0.407	50.1	86.4
MAX HP	460.0	238.7	206.5	1.570	622.9	785	43.55	0.407	48.8	86.3
	460.0	235.7	202.0	1.669	657.9	770	43.87	0.402	45.6	85.7
BDT OZ-FT	460.0	234.4	200.4	1.705	670.6	763	44.14	0.401	44.6	85.5
	460.0	231.1	196.9	1.797	700.8	745	43.71	0.388	41.3	84.8
	460.0	226.2	193.1	1.921	738.7	717	42.15	0.360	36.3	83.6
	460.0	221.4	190.8	2.027	768.3	688	40.03	0.328	31.8	82.4
	460.0	216.5	189.5	2.125	793.0	654	37.12	0.289	27.2	81.1
	460.0	211.7	189.2	2.211	812.9	616	34.07	0.250	22.9	79.9
	460.0	207.4	189.6	2.284	827.6	576	30.77	0.211	19.0	78.8
	460.0	202.8	190.6	2.351	839.6	531	27.00	0.171	15.2	77.6
	460.0	198.9	191.9	2.404	847.9	483	23.81	0.137	12.1	76.7
	460.0	195.1	193.4	2.452	855.4	430	20.91	0.107	9.3	75.8
	460.0	191.4	195.3	2.491	860.1	374	17.78	0.079	6.9	75.1
	460.0	187.4	197.4	2.525	863.2	304	12.77	0.046	4.0	74.3
	460.0	184.5	199.0	2.546	865.3	246	12.29	0.036	3.1	73.9
	460.0	181.3	201.0	2.561	865.7	179	9.78	0.021	1.8	73.5
	460.0	177.9	203.4	2.570	865.6	105	8.71	0.011	0.9	73.2

DRAWING NO.	PAGE 3 of 4	REV.
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Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

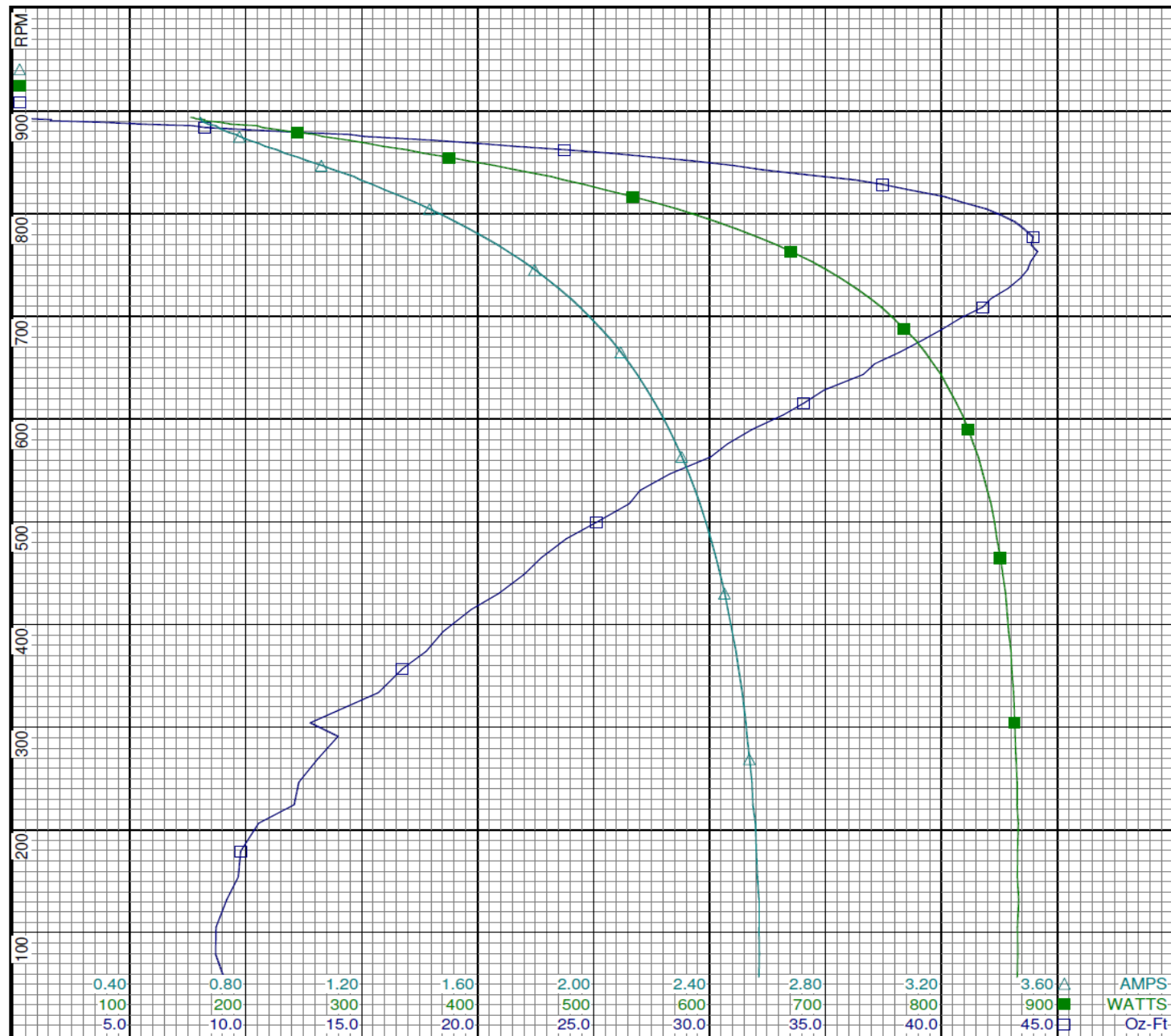
Performance Data



5RHU7BG

REV.

-



Curve Descriptions:

Motor(1) Test 2 Run 460V 60 Hz 8P M2

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

Motor Ratings:

(1) K55HXMLMW-2489 ID: 5RHU7BG

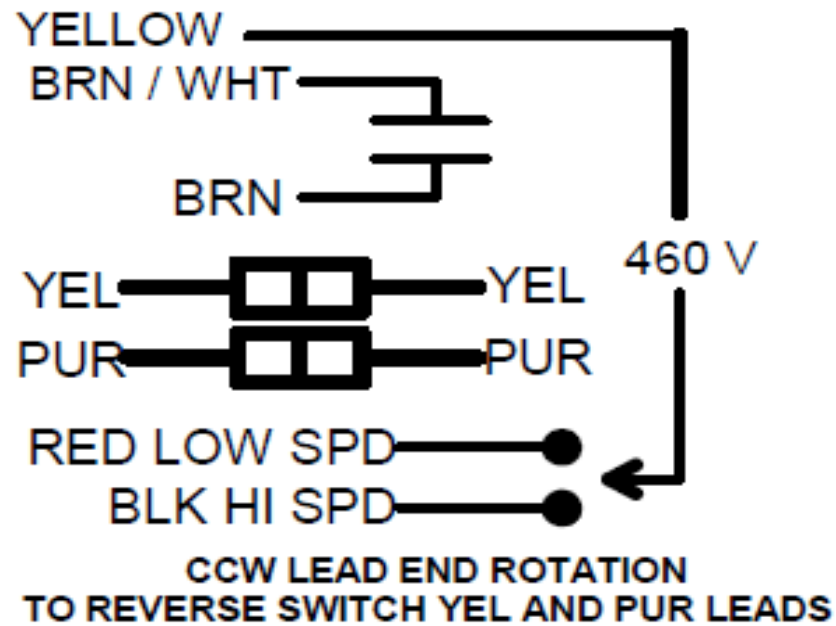
DRAWING NO.	PAGE 4 of 4	REV.
5RHU7BG		-

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

Wiring Diagram



5RHU7BG	REV. -
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DRAWING NO.	PAGE 1 of 1	REV.
5RHU7BG		-

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

Dayton®

CONDENSER FAN MOTOR

HP: SEE TABLE VOLTS: 460 HZ: 60 PH: 1 SF: 1.0

RPM: 825/2 SPD INS CL: B AMPS: 1.5-0.8 SFA: 1.5-0.8

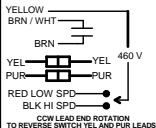
ENCL: TEAO DUTY: CONT AMB: 70°C

FR: 48YZ MFG. NO. PROT. CODE: 7A010 AVG. F.L. EFF.

MTR REF: K55HXLMW-2489 THERMALLY PROTECTED: AUTO

Part No: 5RHU7BG

ROTATION: CCW Lead End Rev CAPACITOR: See Table Below



MOTOR	CAP MFD/370V	SPEED TO USE	FLA
1/2 HP	10	HIGH (835 RPM)	1.5
1/3 HP	10	HIGH (865 RPM)	1.2
1/4 HP	10	LOW (860 RMP)	0.92
1/5 HP	10	LOW (870 RPM)	0.83

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

Made in Mexico