

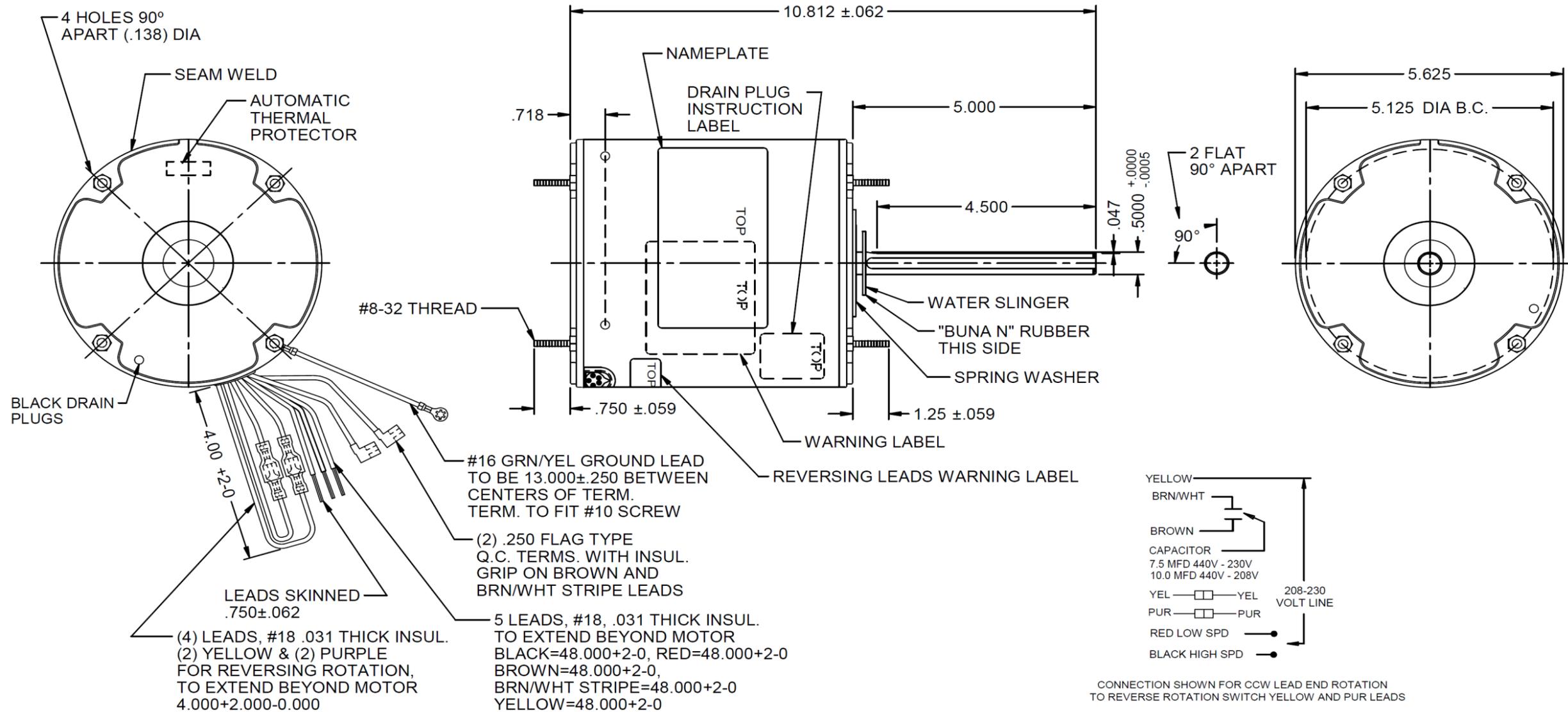
Dimensional Drawing



5RUH3BG

REV.
-

MODEL	REF	CUSTOMER	HP	VOLTS	AMPS	HZ	RPM	ROTATION	CUSTOMER PN	DESCRIPTION / REMARKS
K55HXLNC-2495	C43166-X3	GRAINGER	1/2-1/5	208-230	2.9-1.25	60	1075/2 SPD	C.C.W. LEAD END REV	5RHU3BG	CONDENSER FAN, STUD MTG.



DRAWING NO.	PAGE 1 of 1	REV.
5RUH3BG		-

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

5RHU3BG

REV.

-

SHADED-POLE & PSC MOTOR PERFORMANCE

HP:	1/2-1/5							
Poles:	6							
Ambient (°C):	70							
Altitude (FASL):								
No. of Speeds:	2							
HIGH SPEED								
Volts:	208-230	208	230	208	230			
HZ:	60	60	60	60	60			
Service Factor:	1							
Efficiency:	@ Rated Load	69	68.5	49.9	52.3			
Power Factor:	@ Rated Load	93.4	82.2	91.2	66			
Amps:	@ No Load	1.1	1.65	1.1	1.65			
	@ Rated Load	2.78	2.88	1.57	1.88			
	@ Locked Rotor	7.56	8.9	7.56	8.9			
RPM:	@ Rated Load	1113	1126	1171	1173			
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown	56.3	63.3	56.3	63.3			
	Locked Rotor	15.3	12.5	15.3	12.5			
	Pull-Up							
	Rated Load	37.73	37.29	14.35	14.32			
	Service Factor	37.73	1126	14.35	1173			
Watts:	Rated Load	540.3	544.4	298.5	285.1			
Temperature Rise:	@ Rated Load							
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)	Cu						
	Run (Main)	Cu						
Capacitor:	Run (MFD / Volts)	10	7.5	10	7.5			
	No. of Run Capacitors	1	1	1	1			
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.
5RHU3BG -

5RHU3BG

REV.

-

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:	208-230	208	230					
HZ:	60	60	60					
Efficiency:	@ Rated Load	61.4	59.1					
Power Factor:	@ Rated Load	95.2	95.5					
Amps:	@ No Load	0.53	0.6					
	@ Rated Load	1.23	1.15					
Torques: Oz.Ft. / Lb.In. (Circle One)	Breakdown	26.8	33					
	Locked Rotor	6.8	5.761					
	Pull-Up							
	Rated Load	14.74	14.54					
Watts:	Rated Load	243.1	252.2					
Temperature Rise:	@ Rated Load							

Notes:

DRAWING NO. PAGE 1 REV.
5RHU3BG -

Performance Data



5RHU3BG		REV.								
Dayton Manufacturing Company										
Motor Description		Test Conditions								
Model:	K55HXLNC-2495	Test Type:	Run	Run Cap:	7.5					
Motor ID:	1-1	Test Number:	3	Start Cap:	0ufd					
Poles:	6	Poles:	6	Environment:	24.9 Deg C 57 % RH 966 hPa					
Volts:	208-230	Volts:	230	Tested:	8/16/2016 10:52:47 AM					
Frequency:	60	Hz:	60	Tested By:	Navarro, Susana					
HP:	1/2-1/5	Rotation:		Gear Ratio:	1:1					
Speed:	1075	Special Cond:		Bearing Friction:	-0.17 Oz-Ft					
Phase:	1	Speed Conn:	M1	Windage Torque:	0.16 Oz-Ft					
Protector:	7AM036-A5	TestBoard:	CMD InLine Three Phase #2 Fixture #1							
Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	339.3	440.3	1.647	153.1	1195	0.00	0.000	0.0	40.4
	230.0	337.2	436.6	1.657	174.9	1191	2.72	0.039	16.5	45.9
	230.0	335.0	432.5	1.682	199.6	1187	5.55	0.078	29.3	51.6
	230.0	331.8	425.8	1.749	237.0	1181	9.47	0.133	41.9	58.9
	230.0	327.9	416.8	1.884	287.5	1173	14.54	0.203	52.7	66.3
	230.0	322.9	406.7	2.086	345.6	1162	20.53	0.284	61.3	72.0
24.7 OZ-FT	230.0	319.4	400.1	2.249	389.3	1155	24.70	0.340	65.0	75.3
	230.0	316.3	395.3	2.371	421.3	1149	27.34	0.374	66.2	77.3
	230.0	306.8	382.3	2.697	501.5	1134	33.93	0.458	68.2	80.9
37.74 OZ-FT	230.0	300.5	374.2	2.904	550.1	1125	37.74	0.506	68.6	82.4
MAX %	230.0	294.9	367.2	3.082	590.7	1117	40.90	0.544	68.7	83.3
	230.0	281.6	351.7	3.495	678.7	1097	47.16	0.616	67.7	84.4
	230.0	267.2	335.7	3.937	769.0	1074	52.84	0.676	65.6	84.9
	230.0	250.1	318.2	4.448	866.7	1046	57.54	0.716	61.7	84.7
	230.0	234.1	303.2	4.910	950.5	1017	60.70	0.735	57.7	84.2
MAX HP	230.0	221.9	292.5	5.251	1009.7	993	62.38	0.738	54.5	83.6
	230.0	215.7	287.5	5.420	1037.3	981	62.85	0.734	52.8	83.2
BDT OZ-FT	230.0	198.6	274.8	5.876	1109.6	943	63.28	0.710	47.8	82.1
	230.0	198.6	274.8	5.876	1109.6	943	63.28	0.710	47.8	82.1
	230.0	181.5	263.9	6.317	1174.1	901	62.27	0.668	42.4	80.8
	230.0	164.9	255.4	6.724	1228.7	854	60.33	0.613	37.2	79.4
	230.0	149.4	249.4	7.090	1273.0	803	57.07	0.545	32.0	78.1
	230.0	134.8	245.6	7.423	1310.3	746	53.29	0.474	27.0	76.7
	230.0	121.7	243.5	7.713	1339.4	687	49.11	0.401	22.4	75.5
	230.0	109.2	242.9	7.978	1363.3	620	44.17	0.326	17.9	74.3
	230.0	97.4	243.6	8.212	1382.1	547	38.93	0.253	13.7	73.2
	230.0	87.3	245.2	8.399	1394.7	469	33.78	0.189	10.1	72.2
	230.0	76.8	249.1	8.562	1404.1	374	27.79	0.124	6.6	71.3
	230.0	72.1	252.0	8.644	1410.8	300	25.32	0.090	4.8	71.0
	230.0	66.8	256.5	8.721	1417.5	204	21.26	0.052	2.7	70.7
	230.0	64.0	262.5	8.776	1423.4	103	17.72	0.022	1.1	70.5
DRAWING NO.		PAGE 1 of 4		REV.						
5RHU3BG				-						

Performance Data



5RHU3BG

REV.

-



Curve Descriptions:

Motor(1) Test 3 Run 230V 60 Hz 6P
M1 7.5ufd Run

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

Motor Ratings:

(1) K55HXLNC-2495 ID: 1-1

DRAWING NO.	PAGE 2 of 4	REV.
5RHU3BG		-

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

Performance Data



5RHU3BG	REV. -
----------------	-----------

Dayton Manufacturing Company

Motor Description

Model: K55HXLNC-2495
 Motor ID: 1-1
 Poles: 6
 Volts: 208-230
 Frequency: 60
 HP: 1/2-1/5
 Speed: 1075
 Phase: 1
 Protector: 7AM036-A5

Test Conditions

Test Type: Run
 Test Number: 4
 Poles: 6
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn: M2
 TestBoard: CMD InLine Three Phase #2 Fixture #1
 Run Cap: 7.5
 Start Cap: 0µfd
 Environment: 24.9 Deg C 57 % RH 966 hPa
 Tested: 8/16/2016 11:11:53 AM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.16 Oz-Ft
 Windage Torque: 0.99 Oz-Ft

Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	266.2	342.0	0.665	77.2	1195	0.00	0.000	0.0	50.4
	230.0	263.6	337.9	0.686	90.5	1192	1.40	0.020	16.3	57.4
	230.0	260.1	332.2	0.719	106.4	1187	3.10	0.044	30.7	64.3
	230.0	255.0	323.4	0.781	126.7	1180	5.39	0.076	44.6	70.5
	230.0	249.0	311.4	0.885	152.3	1172	7.89	0.110	53.9	74.8
	230.0	242.0	298.4	1.034	187.3	1162	10.70	0.148	58.9	78.7
	230.0	233.6	285.7	1.201	226.7	1149	14.07	0.192	63.3	82.0
15.2 OZ-FT	230.0	231.2	282.4	1.248	237.1	1146	15.20	0.207	65.2	82.6
	230.0	224.1	273.1	1.378	266.5	1134	17.54	0.237	66.3	84.1
MAX %	230.0	221.1	269.4	1.437	279.2	1129	18.96	0.255	68.0	84.5
19.14 OZ-FT	230.0	219.9	267.9	1.460	284.1	1127	19.14	0.257	67.4	84.6
	230.0	214.0	260.5	1.572	308.3	1117	20.48	0.272	65.9	85.3
	230.0	201.8	245.9	1.797	355.6	1096	23.57	0.308	64.5	86.0
	230.0	189.5	232.2	2.017	398.8	1073	25.95	0.331	62.0	86.0
	230.0	177.2	219.1	2.235	440.4	1048	27.78	0.347	58.7	85.7
MAX HP	230.0	163.2	205.1	2.490	487.1	1016	29.20	0.353	54.1	85.1
	230.0	149.5	193.1	2.728	527.8	981	29.76	0.348	49.1	84.1
BDT OZ-FT	230.0	146.0	190.2	2.786	537.4	970	29.86	0.345	47.9	83.9
	230.0	137.2	183.5	2.939	562.3	944	29.54	0.332	44.1	83.2
	230.0	124.7	175.5	3.143	592.6	902	28.88	0.310	39.0	82.0
	230.0	112.4	169.1	3.344	621.3	854	27.61	0.281	33.7	80.8
	230.0	101.7	165.2	3.509	642.3	804	26.18	0.251	29.1	79.6
	230.0	91.5	162.9	3.664	661.0	748	24.05	0.214	24.2	78.4
	230.0	82.4	162.1	3.802	676.7	687	21.95	0.180	19.8	77.4
	230.0	74.1	162.3	3.921	688.9	621	19.80	0.146	15.9	76.4
	230.0	66.8	163.5	4.022	698.2	549	17.63	0.115	12.3	75.5
	230.0	59.8	165.2	4.109	704.8	471	14.65	0.082	8.7	74.6
	230.0	54.1	167.4	4.167	708.2	388	13.07	0.060	6.4	73.9
	230.0	50.5	170.8	4.215	713.5	299	11.69	0.042	4.4	73.6
	230.0	47.5	173.6	4.252	717.0	200	10.17	0.024	2.5	73.3
	230.0	46.2	177.6	4.279	720.7	102	8.68	0.011	1.1	73.2

DRAWING NO.	PAGE 3 of 4	REV.
5RHU3BG		-

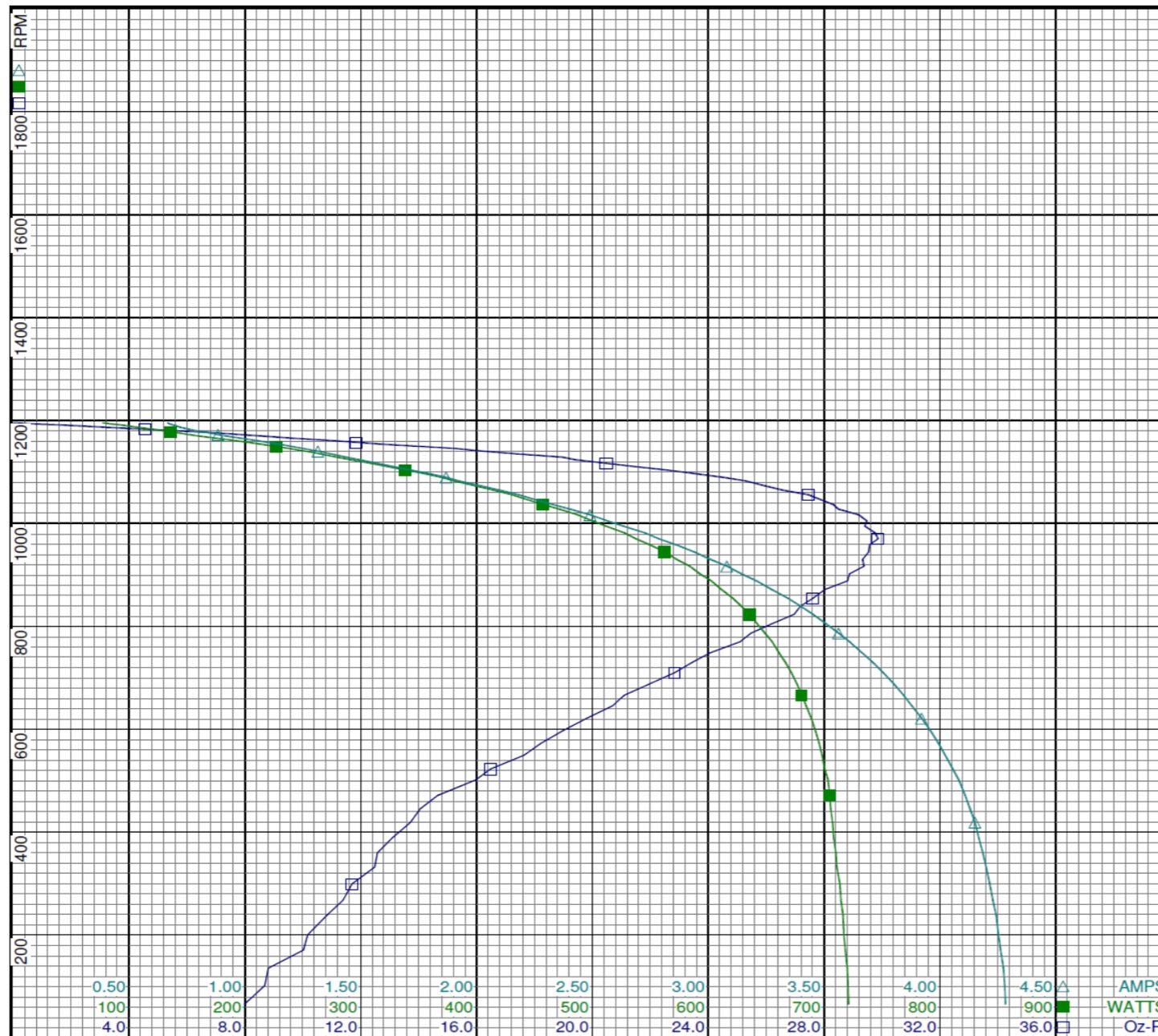
Performance Data



5RHU3BG

REV.

-



Curve Descriptions:

Motor(1) Test 4 Run 230V 60 Hz 6P
M2 7.5ufd Run

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

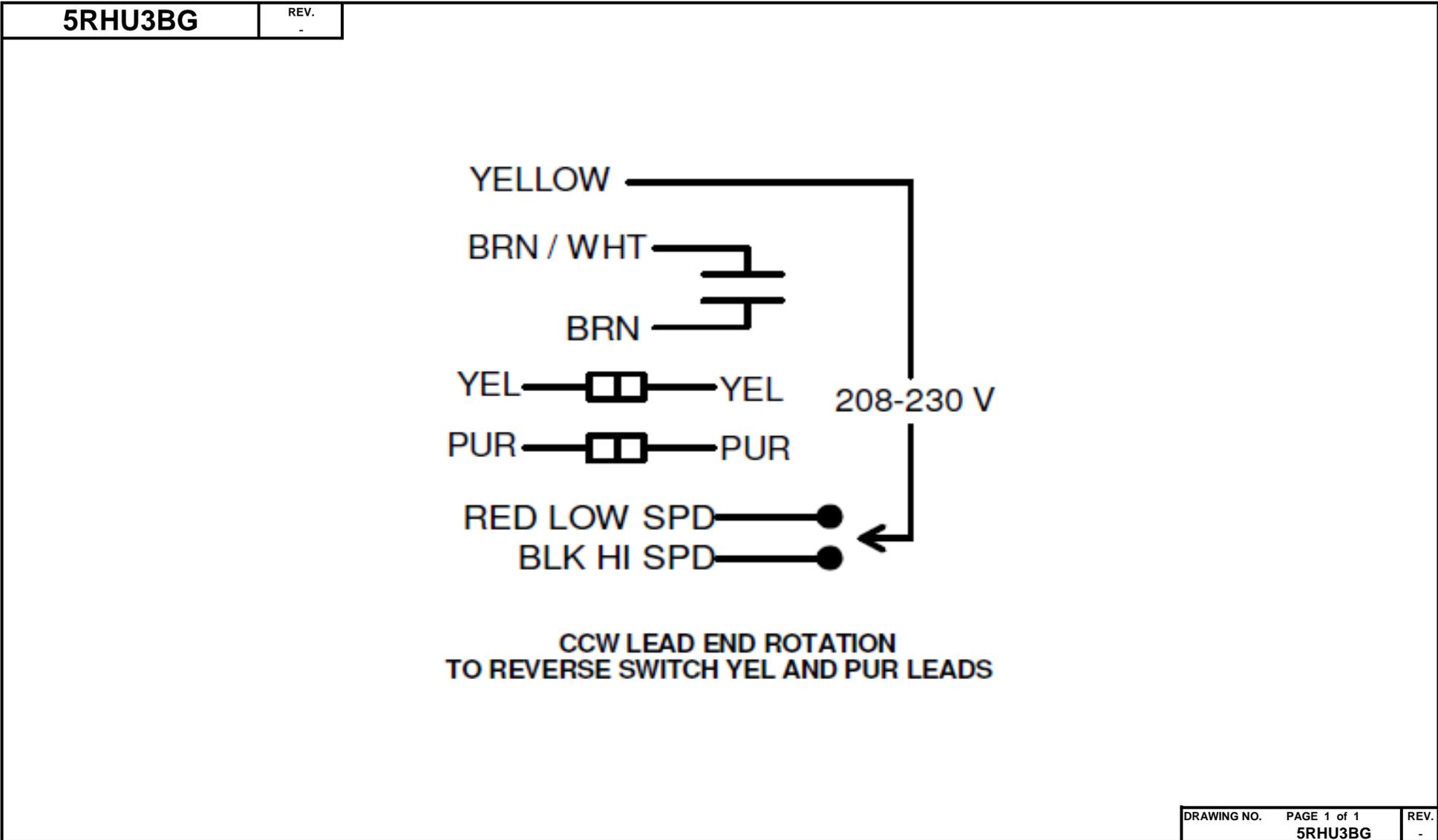
Motor Ratings:

(1) K55HXLNC-2495 ID: 1-1

DRAWING NO.	PAGE 4 of 4	REV.
5RHU3BG		-

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

Wiring Diagram



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

Dayton®

CONDENSER FAN MOTOR

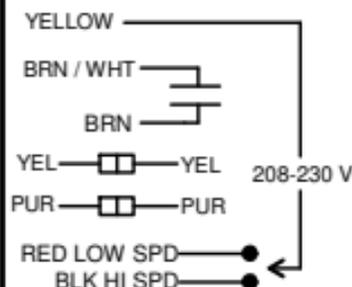
HP: SEE TABLE VOLTS: 208-230 HZ: 60 PH: 1 SF: 1.0
RPM: 1075/2 SPD INS CL: B AMPS: 2.9-1.25 SFA: 2.9-1.25
ENCL: TEAO DUTY: CONT AMB: 70 °C

BAR CODE

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

Part No: 5RHU3BG

MTR REF: K55HXLNC-2495 THERMALLY PROTECTED: AUTO
ROTATION: CCW Lead End Rev CAPACITOR: See Table Below



CCW LEAD END ROTATION
TO REVERSE SWITCH YEL AND PUR LEADS



MOTOR	CAP MFD/440		SPEEDS TO USE	FLA
	208V	230V		
1/2 HP	10	7.5	HIGH (1125 RPM)	2.9
1/3 HP	10	7.5	HIGH (1150 RPM)	2.25
1/4 HP	10	7.5	LOW (1130 RPM)	1.5
1/5 HP	10	7.5	LOW (1140 RPM)	1.25

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

Made in Mexico