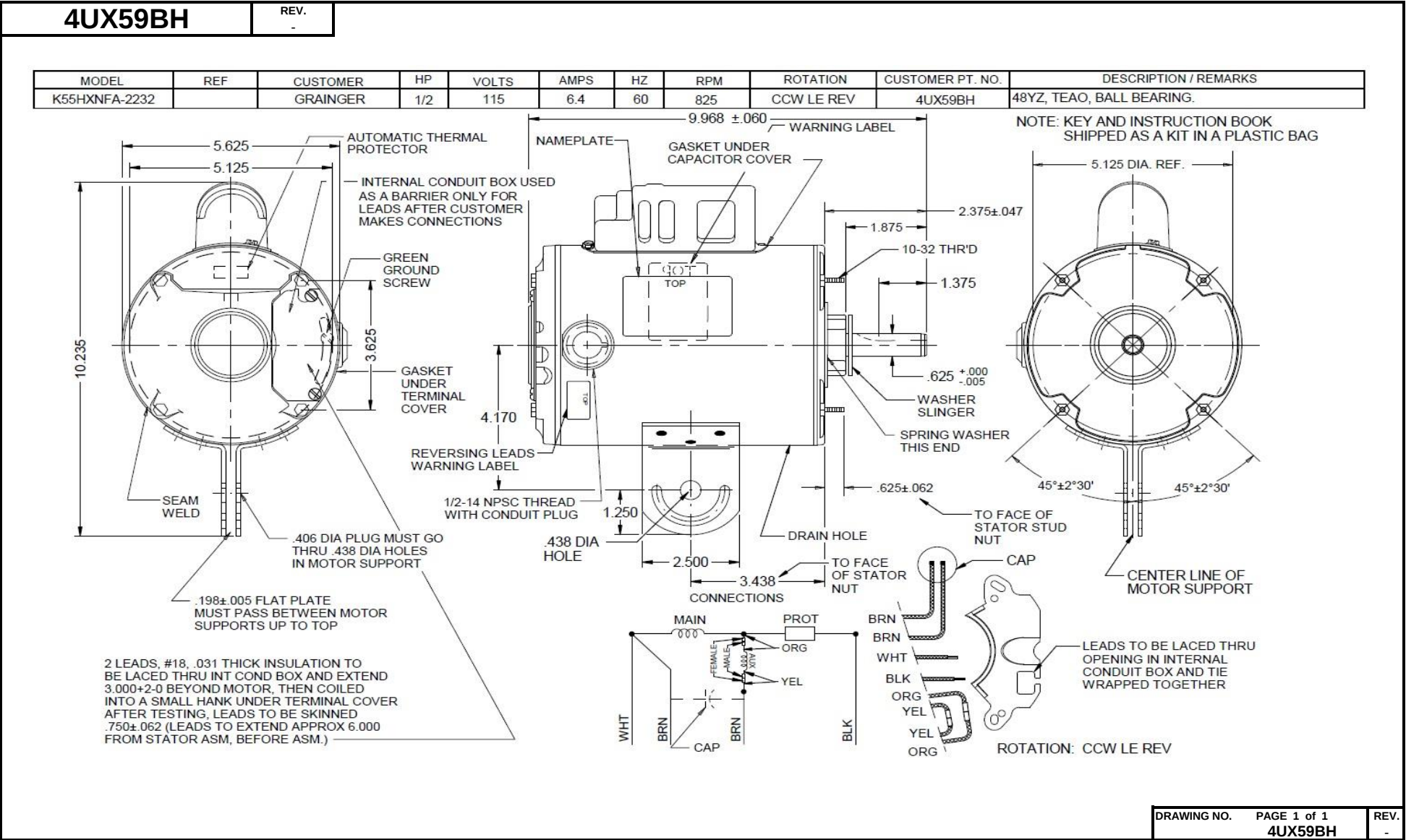


Dimensional Drawing



4UX59BH

REV.

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SHADED-POLE & PSC MOTOR PERFORMANCE

HP:	1/2							
Poles:	8							
Ambient (°C):	40							
Altitude (FASL):								
No. of Speeds:	1							
HIGH SPEED								
Volts:	115	115						
HZ:	60	60						
Service Factor:	1							
Efficiency:	@ Rated Load	90.1						
Power Factor:	@ Rated Load	31.1						
Amps:	@ No Load							
	@ Rated Load	5.6						
	@ Locked Rotor	15.77						
RPM:	@ Rated Load	853						
Torques:	Breakdown	70.6						
	Locked Rotor	12.01						
	Pull-Up	6						
	Rated Load	49.23						
	Service Factor	N/A						
Watts:	Rated Load	585						
Temperature Rise:	@ Rated Load	TEAO						
Thermal Protector:	Trip Temp (°C)	TEAO						
Winding Material:	Start (Auxiliary)	Cu						
	Run (Main)	Cu						
Capacitor(s):	Run (MFD / Volts)					30		
	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 of 1
 4UX59BH

 REV.
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Performance Data



4UX59BH

REV.
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Dayton Manufacturing Company

Motor Description

Model: K055NFA-2232 4UX59BH
Motor ID:
Poles: 8
Volts: 115
Frequency: 60
HP: 1/2
Speed: 825
Phase: 1
Protector:

Test Conditions

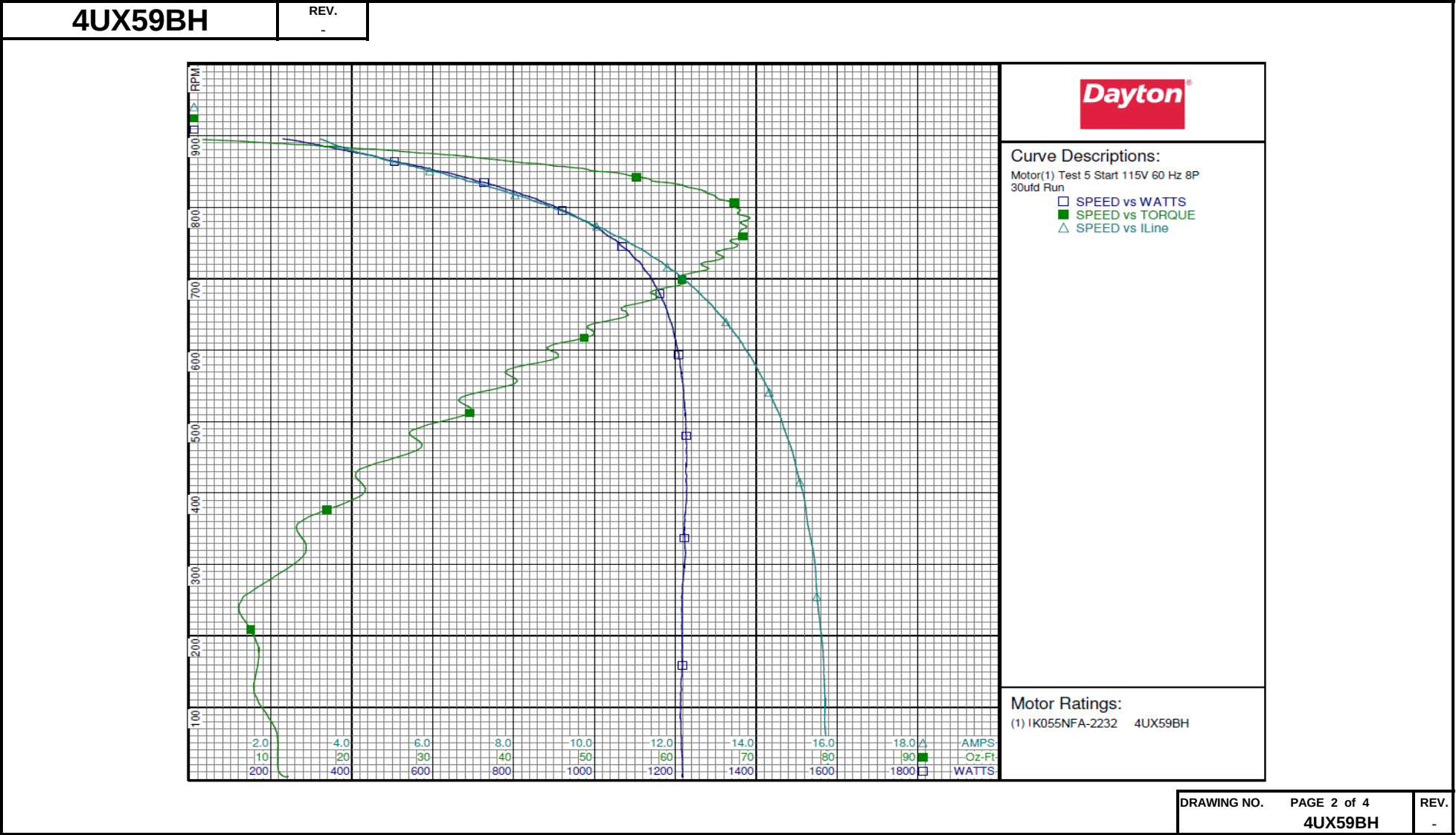
Test Type: Start Run Cap: 30
Test Number: 5 Start Cap: 0µfd
Poles: 8 Environment: 21.4 Deg C 14 % RH 1000 hPa
Volts: 115 Tested: 1/18/2012 12:52:36 PM
Hz: 60 Tested By: Sharp, Gerald
Rotation: Gear Ratio: 1:1
Special Cond: Bearing Friction: -0.75 Oz-Ft
Speed Conn: Windage Torque: -2.01 Oz-Ft
TestBoard: Amtps 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	32.1	137.9	15.771	16.753	1.579	1217.1	3	12.01	0.000	0.0	67.1	30.4
	115.0	31.6	137.0	15.764	16.736	1.568	1217.2	20	10.79	0.003	0.2	67.1	30.4
	115.0	30.7	134.2	15.700	16.634	1.534	1212.6	91	9.43	0.010	0.6	67.2	30.3
	115.0	30.6	131.2	15.674	16.566	1.505	1217.9	158	8.36	0.016	1.0	67.6	30.4
	115.0	31.6	129.4	15.573	16.419	1.482	1216.8	220	6.82	0.018	1.1	67.9	30.4
PUT OZ-FT	115.0	31.9	128.7	15.535	16.366	1.475	1215.7	237	6.00	0.017	1.0	68.1	30.4
	115.0	32.9	127.7	15.481	16.283	1.462	1219.4	278	9.73	0.032	2.0	68.5	30.4
	115.0	35.8	126.6	15.362	16.108	1.453	1224.0	332	14.15	0.056	3.4	69.3	30.4
	115.0	38.8	125.3	15.217	15.905	1.438	1226.1	382	18.28	0.083	5.1	70.1	30.4
	115.0	42.8	125.0	15.020	15.648	1.437	1226.3	428	20.50	0.104	6.4	71.0	30.5
	115.0	46.9	124.5	14.805	15.363	1.432	1226.9	472	28.35	0.159	9.7	72.1	30.5
	115.0	51.1	124.1	14.558	15.047	1.431	1224.7	512	34.59	0.211	12.8	73.2	30.6
	115.0	55.5	124.2	14.269	14.686	1.436	1219.5	549	38.93	0.254	15.6	74.3	30.7
	115.0	60.3	124.8	13.949	14.292	1.445	1211.3	582	42.99	0.298	18.3	75.5	30.7
	115.0	65.4	125.6	13.601	13.866	1.460	1201.4	613	47.46	0.347	21.5	76.8	30.8
	115.0	71.0	127.2	13.210	13.390	1.482	1186.7	643	52.35	0.400	25.2	78.1	30.9
	115.0	77.0	129.3	12.781	12.870	1.510	1168.3	670	56.98	0.454	29.0	79.5	31.0
	115.0	83.2	132.0	12.323	12.319	1.546	1146.6	694	61.10	0.505	32.9	80.9	31.1
	115.0	89.6	135.3	11.807	11.706	1.590	1118.9	716	63.85	0.544	36.3	82.4	31.2
	115.0	95.4	138.9	11.318	11.131	1.639	1088.6	736	65.07	0.570	39.0	83.6	31.3
	115.0	102.5	143.7	10.756	10.477	1.702	1051.4	754	66.91	0.601	42.6	85.0	31.4
	115.0	109.9	149.2	10.142	9.770	1.768	1004.8	771	68.78	0.631	46.9	86.1	31.4
BDT OZ-FT	115.0	116.1	154.3	9.566	9.127	1.828	957.7	785	69.22	0.647	50.4	87.1	31.4
	115.0	116.9	155.0	9.494	9.042	1.836	953.2	787	68.83	0.645	50.5	87.3	31.4
	115.0	123.5	160.6	8.881	8.341	1.910	900.5	801	67.12	0.640	53.0	88.2	31.5
	115.0	130.6	167.3	8.216	7.615	1.984	838.7	815	64.97	0.630	56.1	88.8	31.5
825 RPM	115.0	136.7	173.2	7.603	6.952	2.052	781.2	825	62.84	0.617	58.9	89.3	31.4
	115.0	137.5	173.9	7.520	6.862	2.061	773.9	826	62.23	0.612	59.0	89.5	31.4
	115.0	144.2	180.7	6.842	6.152	2.141	706.5	837	57.11	0.569	60.1	89.8	31.4
	115.0	150.9	187.7	6.178	5.498	2.217	636.1	848	52.52	0.530	62.2	89.5	31.3
50.9 OZ-FT	115.0	152.3	189.4	6.036	5.359	2.232	621.5	850	50.90	0.515	61.8	89.5	31.3
0.5 HP	115.0	154.8	191.7	5.810	5.134	2.260	599.9	852	49.28	0.500	62.2	89.8	31.3
	115.0	158.1	195.3	5.491	4.836	2.293	564.5	857	45.59	0.465	61.5	89.4	31.1
	115.0	165.4	203.1	4.873	4.341	2.363	493.5	865	38.75	0.399	60.3	88.1	30.9
	115.0	176.0	214.8	4.124	3.883	2.474	401.9	877	26.97	0.282	52.3	84.7	30.6
	115.0	187.0	227.0	3.677	3.821	2.612	333.1	885	16.95	0.179	40.0	78.8	30.5
	115.0	196.4	237.9	3.303	4.011	2.756	253.9	894	3.34	0.036	10.4	66.8	30.7
	115.0	198.1	240.0	3.216	4.104	2.787	229.1	896	0.00	0.000	0.0	62.0	30.8

DRAWING NO. PAGE 1 of 4 REV.
4UX59BH -

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

Performance Data



Performance Data



4UX59BH

REV.
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Dayton Manufacturing Company

Motor Description

Model: K055NFA-2232 4UX59BH
Motor ID:
Poles: 8
Volts: 115
Frequency: 60
HP: 1/2
Speed: 825
Phase: 1
Protector:

Test Conditions

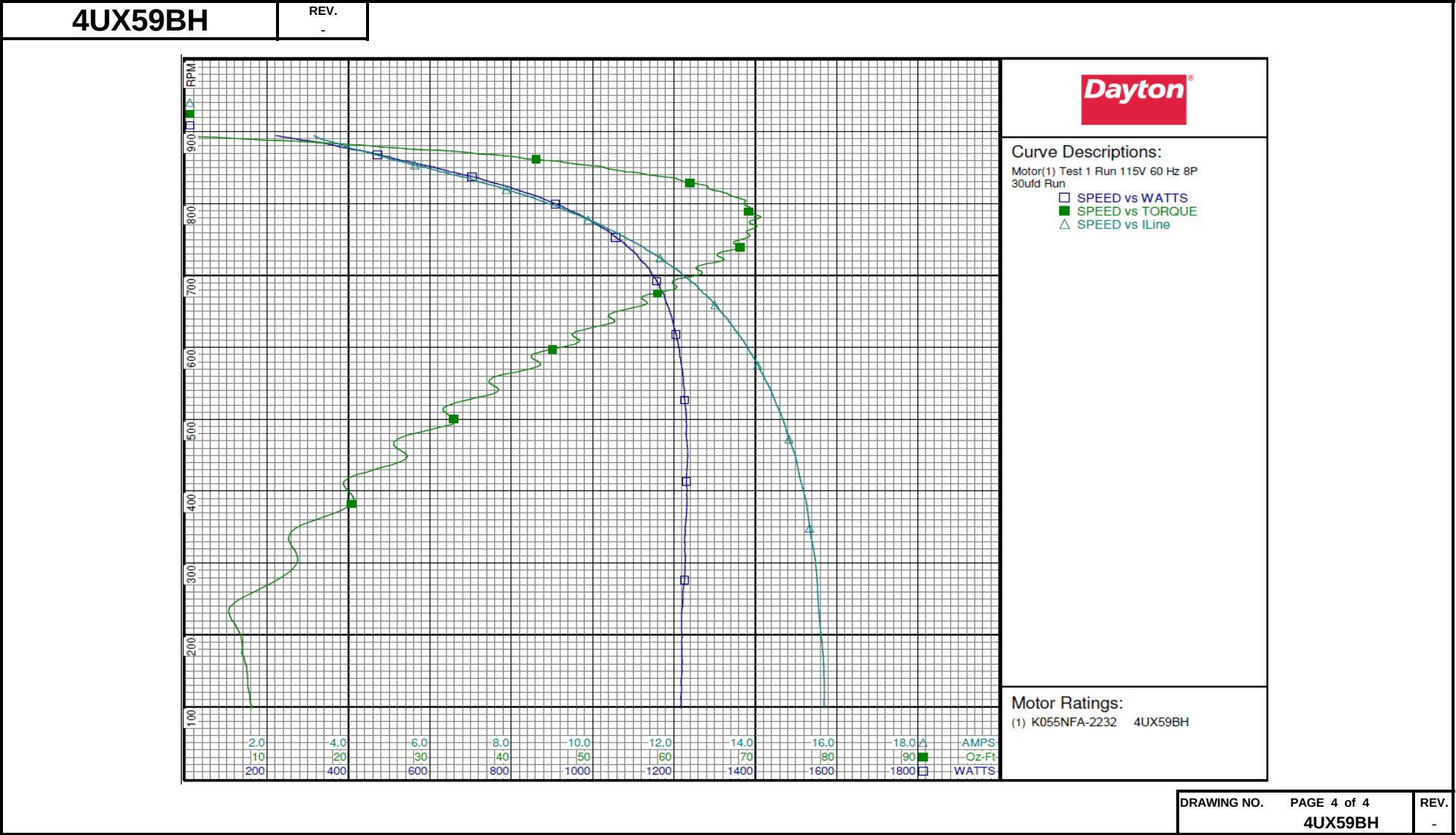
Test Type: Run
Test Number: 1
Poles: 8
Volts: 115
Hz: 60
Rotation:
Special Cond:
Speed Conn:
TestBoard: Amtps Performance Fixture #1
Run Cap: 30
Start Cap: 0µfd
Environment: 21.4 Deg C 14 % RH 1000 hPa
Tested: 1/18/2012 12:49:58 PM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: -0.78 Oz-Ft
Windage Torque: -2.03 Oz-Ft

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	198.6	240.1	3.145	4.060	2.789	221.7	894	0.00	0.000	0.0	61.3	30.8
	115.0	193.3	232.4	3.518	3.794	2.686	307.4	887	13.32	0.141	34.1	76.0	30.7
	115.0	186.7	224.2	3.957	3.788	2.583	380.5	878	24.31	0.254	49.8	83.6	30.6
	115.0	175.1	211.1	4.584	4.037	2.425	466.4	869	36.05	0.373	59.6	88.5	30.5
	115.0	164.3	199.4	5.134	4.456	2.307	529.9	860	44.21	0.452	63.7	89.8	30.7
0.5 HP	115.0	156.6	191.5	5.638	4.904	2.239	584.7	853	49.23	0.500	63.8	90.2	31.0
50.9 OZ-FT	115.0	154.6	189.6	5.795	5.062	2.225	600.6	851	50.90	0.516	64.1	90.1	31.1
	115.0	153.4	188.5	5.876	5.146	2.217	608.8	851	51.36	0.520	63.7	90.1	31.2
	115.0	146.1	181.5	6.570	5.832	2.153	683.2	840	56.89	0.569	62.1	90.4	31.5
	115.0	139.1	174.7	7.299	6.599	2.081	756.3	828	61.94	0.611	60.3	90.1	31.6
825 RPM	115.0	137.1	172.6	7.541	6.851	2.052	780.6	825	63.88	0.627	60.0	90.0	31.5
	115.0	131.9	167.8	8.038	7.394	1.999	826.3	817	65.71	0.639	57.7	89.4	31.6
	115.0	125.5	161.7	8.708	8.133	1.925	888.2	804	68.80	0.659	55.3	88.7	31.6
	115.0	118.8	156.0	9.332	8.837	1.857	943.3	790	69.30	0.652	51.6	87.9	31.6
BDT OZ-FT	115.0	114.1	152.2	9.767	9.334	1.810	978.7	781	70.63	0.657	50.1	87.1	31.5
	115.0	111.6	150.2	9.970	9.568	1.790	995.8	776	69.37	0.641	48.0	86.8	31.6
	115.0	105.0	145.1	10.571	10.257	1.729	1042.7	759	68.92	0.623	44.6	85.8	31.6
	115.0	98.4	140.4	11.148	10.927	1.669	1082.1	742	67.67	0.598	41.2	84.4	31.5
	115.0	92.2	136.6	11.663	11.528	1.617	1114.1	724	65.97	0.569	38.1	83.1	31.4
	115.0	86.3	133.1	12.140	12.092	1.571	1142.7	705	63.45	0.532	34.8	81.8	31.3
	115.0	80.4	130.4	12.587	12.627	1.534	1164.9	684	60.37	0.491	31.5	80.5	31.2
	115.0	75.2	128.4	12.975	13.096	1.504	1181.8	661	56.71	0.446	28.2	79.2	31.1
	115.0	69.9	126.7	13.353	13.555	1.480	1197.0	635	52.75	0.399	24.9	77.9	31.0
	115.0	64.8	125.5	13.688	13.967	1.462	1207.5	610	48.41	0.352	21.7	76.7	30.9
	115.0	60.1	124.6	14.005	14.356	1.451	1216.8	581	43.12	0.298	18.3	75.6	30.9
	115.0	55.7	124.3	14.283	14.706	1.444	1222.9	551	37.28	0.244	14.9	74.5	30.8
	115.0	51.9	124.2	14.530	15.013	1.440	1227.8	519	32.17	0.199	12.1	73.5	30.8
	115.0	48.3	124.3	14.757	15.297	1.437	1230.3	485	29.97	0.173	10.5	72.5	30.7
	115.0	45.3	125.2	14.982	15.582	1.445	1234.0	448	27.21	0.145	8.8	71.6	30.6
	115.0	41.8	125.4	15.138	15.792	1.446	1230.7	409	19.32	0.094	5.7	70.7	30.6
	115.0	39.0	126.4	15.296	16.001	1.455	1231.1	368	17.91	0.078	4.8	70.0	30.5
	115.0	36.0	126.8	15.414	16.170	1.457	1227.0	323	13.01	0.050	3.0	69.2	30.5
	115.0	34.2	128.6	15.516	16.318	1.478	1226.2	277	11.28	0.037	2.3	68.7	30.5
	115.0	32.2	129.4	15.569	16.412	1.485	1218.7	226	5.39	0.015	0.9	68.1	30.4
	115.0	30.9	131.0	15.663	16.547	1.503	1218.9	174	6.84	0.014	0.9	67.7	30.4
	115.0	30.6	133.1	15.696	16.615	1.525	1217.5	119	7.80	0.011	0.7	67.4	30.4

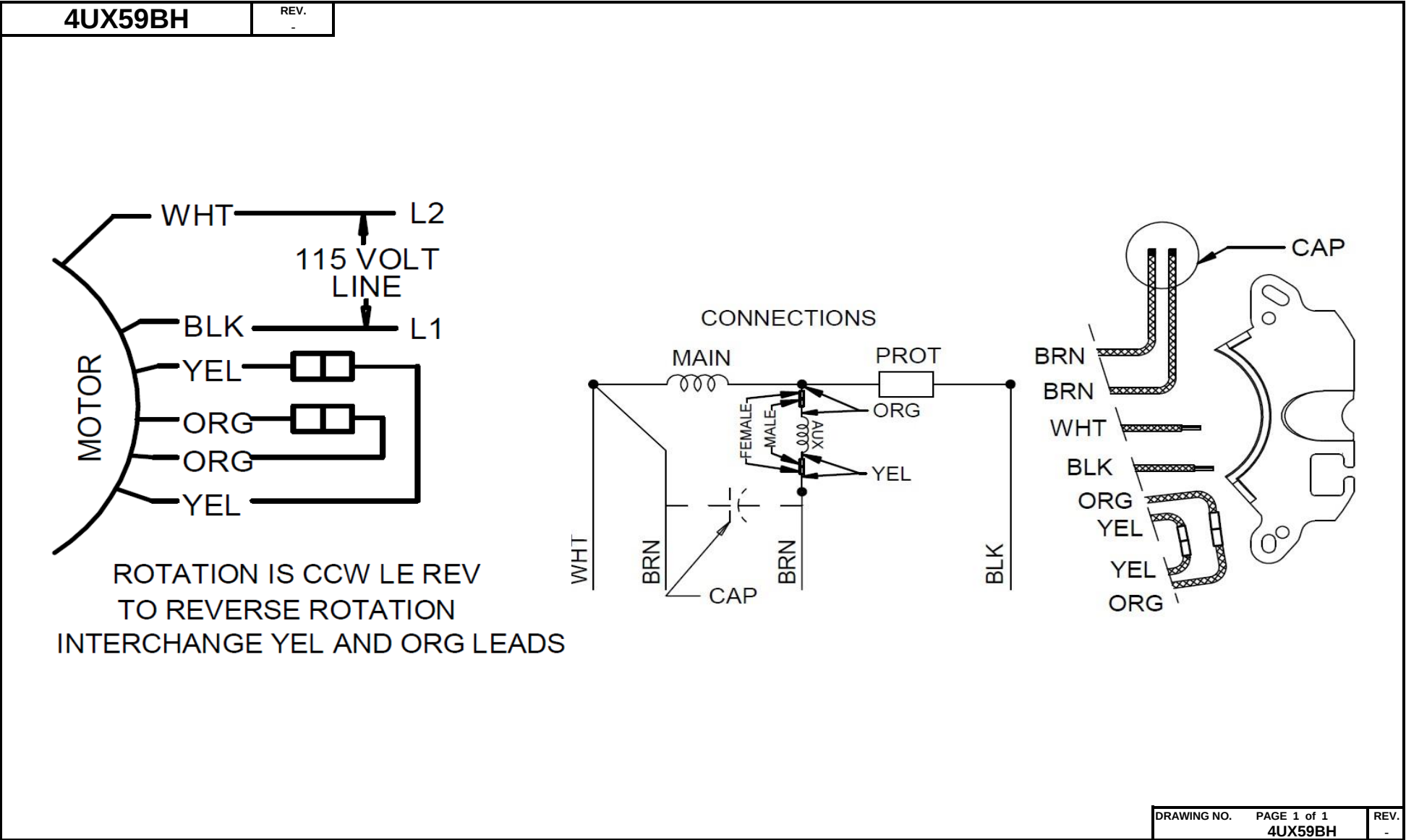
DRAWING NO. PAGE 3 of 4
4UX59BH REV.
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Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data

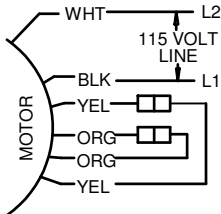


Wiring Diagram



Dayton®

AIR CIRCULATOR MOTOR

HP: 1/2
VOLTS: 115**BAR CODE****Part No** 4UX59BH**AMPS:** 6.4
RPM: 825
DUTY: CONT**PH:** 1
HZ: 60
FR: 48YZ
INS CL: B
AMB: 40 °C
SFA: 6.4**SF:** 1.0
KVA CODE: B
ENCL: TEAO**THERMALLY PROTECTED:** AUTO**MFG. NO.** **PROT. CODE:** 7A010 **AVG. F.L.
EFF.****MTR REF:** K55HXNFA-2232**Disconnect Power Before Making Any
Electrical Connections or Changes**

ROTATION IS CCW LE REV
TO REVERSE ROTATION
INTERCHANGE YEL AND ORG LEADS

**Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA** Made in Mexico