

Performance Data



5K956BG

REV.
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MOTOR PERFORMANCE

HP:	1/3							
Poles:	2							
No. of Speeds:	1							
Volts:	115/230	115	230					
HZ:	60	60	60					
Service Factor:	1.75							
Efficiency:	@ Rated Load	54.6	53.4					
Power Factor:	@ Rated Load	70.1	70.3					
Amps:	@ No Load							
	@ Rated Load	5.8	2.9					
	@ Service Factor	8	4					
	@ Locked Rotor	33	17.5					
RPM:	@ Rated Load	3533	3532					
Ambient (°C):	40							
Altitude (FASL):								
Torques:	Breakdown	28.5	28.9					
	Locked Rotor	21.3	21.3					
	Pull-Up	21.1	20.8					
	Rated Load	8.1	8.1					
	Service Factor	15	15					
Watts:	Rated Load	467	477					
KVA Code:	N	N	N					
Temperature Rise:	@ Rated Load	19.6	20.9					
	@ Service Factor	35.9	37.1					
Thermal Protector:	Trip Temp (°C)	130.4	145.6					
Winding Material:	Start (Auxiliary)	Al	Al					
	Run (Main)	Cu	Cu					
Capacitor(s):	Start (MFD / Volts)	208 mFd, 110V						
	No. of Start Capacitors							
	Run (MFD / Volts)							
	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							

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Performance Data



5K956BG REV.
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Dayton Manufacturing Company

Motor Description

Model: C055JXKAL215801 5K956BG
 Motor ID: 1 of 2
 Poles: 2
 Volts: 115/208-230
 Frequency: 60/50
 HP: 1/3
 Speed: 3450/2850
 Phase: 1
 Protector: MEJ56AX

Test Conditions

Test Type: Start Run Cap: 0
 Test Number: 2 Start Cap: 208 µFd
 Poles: 2 Environment:
 Volts: 115 Tested: 10/1/2002 8:40:59 AM
 Hz: 60 Tested By: Mitchell (Mitch), L.
 Rotation: Gear Ratio: 1:1
 Special Cond: Bearing Friction: -0.47 Oz-Ft
 Speed Conn: Windage Torque: -3.46 Oz-Ft
 TestBoard: Amtps Performance Fixture #3

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	81.3	115.4	33.02	31.97	9.347	3253	3	21.30	0.001	0.0	85.7	214.8
	115.0	81.6	115.1	33.00	31.92	9.325	3251	51	22.44	0.014	0.3	85.7	215.0
PUT OZ-FT	115.0	82.6	114.1	32.95	31.75	9.236	3248	249	21.11	0.063	1.4	85.7	214.7
	115.0	82.9	113.7	32.94	31.70	9.204	3248	307	21.35	0.078	1.8	85.8	214.7
	115.0	84.6	112.1	32.83	31.37	9.056	3243	597	22.66	0.161	3.7	85.9	214.3
	115.0	86.1	110.7	32.68	31.01	8.942	3244	864	23.84	0.245	5.6	86.3	214.4
	115.0	87.7	108.7	32.50	30.59	8.787	3242	1104	25.39	0.334	7.7	86.7	214.3
	115.0	89.8	107.2	32.31	30.12	8.648	3241	1324	26.84	0.423	9.7	87.2	214.0
	115.0	92.0	105.7	32.07	29.59	8.525	3238	1525	29.94	0.544	12.5	87.8	213.8
	115.0	94.4	104.2	31.81	29.02	8.394	3235	1711	31.93	0.650	15.0	88.4	213.7
	115.0	96.9	102.8	31.53	28.41	8.269	3230	1883	33.40	0.749	17.3	89.1	213.4
	115.0	99.7	101.5	31.20	27.73	8.155	3222	2044	36.17	0.880	20.4	89.8	213.2
	115.0	102.9	100.3	30.83	26.98	8.052	3210	2193	37.95	0.991	23.0	90.5	213.0
	115.0	106.4	99.2	30.46	26.22	7.966	3200	2329	40.18	1.114	26.0	91.4	213.0
	115.0	109.9	98.4	30.10	25.52	7.899	3188	2447	42.16	1.228	28.7	92.1	212.9
	115.0	113.9	97.9	29.69	24.69	7.852	3172	2560	43.78	1.335	31.4	92.9	212.8
	115.0	118.1	97.6	29.28	23.85	7.829	3154	2663	45.31	1.436	34.0	93.7	212.7
	115.0	122.8	97.8	28.84	22.94	7.842	3134	2761	47.03	1.546	36.8	94.5	212.7
	115.0	127.9	98.4	28.37	21.99	7.893	3109	2852	47.92	1.627	39.0	95.3	212.8
	115.0	133.1	99.5	27.88	21.03	7.990	3082	2934	48.39	1.690	40.9	96.1	212.9
	115.0	138.6	101.3	27.39	20.04	8.134	3051	3010	48.48	1.737	42.5	96.8	213.1
	115.0	143.9	103.2	26.82	19.03	8.295	3007	3079	48.16	1.765	43.8	97.5	213.3
	115.0	148.9	106.1	26.12	17.86	8.555	2950	3141	46.85	1.752	44.3	98.2	213.9
	115.0	154.9	109.1	25.52	16.81	8.835	2899	3200	45.66	1.740	44.8	98.8	214.8
	115.0	160.9	112.9	24.90	15.76	9.169	2846	3254	44.15	1.710	44.8	99.4	215.4
	115.0	166.7	117.1	24.27	14.71	9.539	2782	3303	40.74	1.602	43.0	99.7	216.1
	115.0	172.4	121.7	23.60	13.64	9.961	2712	3349	37.64	1.501	41.3	99.9	217.1
	115.0	178.2	126.8	22.84	12.53	10.419	2630	3391	33.54	1.354	38.4	100.1	217.9
	115.0	183.6	132.2	22.01	11.35	10.916	2536	3431	28.70	1.172	34.5	100.2	219.1
	115.0	189.0	137.8	21.11	10.13	11.465	2433	3470	23.49	0.971	29.8	100.2	220.7
	115.0	194.1	143.6	20.07	8.85	12.030	2312	3508	16.59	0.693	22.3	100.2	222.3
	115.0	199.3	149.6	18.92	7.56	12.648	2177	3545	8.60	0.363	12.4	100.0	224.2
	115.0	203.3	155.0	17.63	6.24	13.231	2026	3581	0.00	0.000	0.0	99.9	226.4

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

Performance Data



5K956BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: C055JXKAL215801 5K956BG
 Motor ID: 1 of 2
 Poles: 2
 Volts: 115/208-230
 Frequency: 60/50
 HP: 1/3
 Speed: 3450/2850
 Phase: 1
 Protector: MEJ56AX

Test Conditions

Test Type: Run
 Test Number: 3
 Poles: 2
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Amtps Performance Fixture #3
 Run Cap: 0
 Start Cap: 208 µFd
 Environment:
 Tested: 10/1/2002 8:20:10 AM
 Tested By: Mitchell (Mitch), L
 Gear Ratio: 1:1
 Bearing Friction: -0.27 Oz-Ft
 Windage Torque: -2.83 Oz-Ft

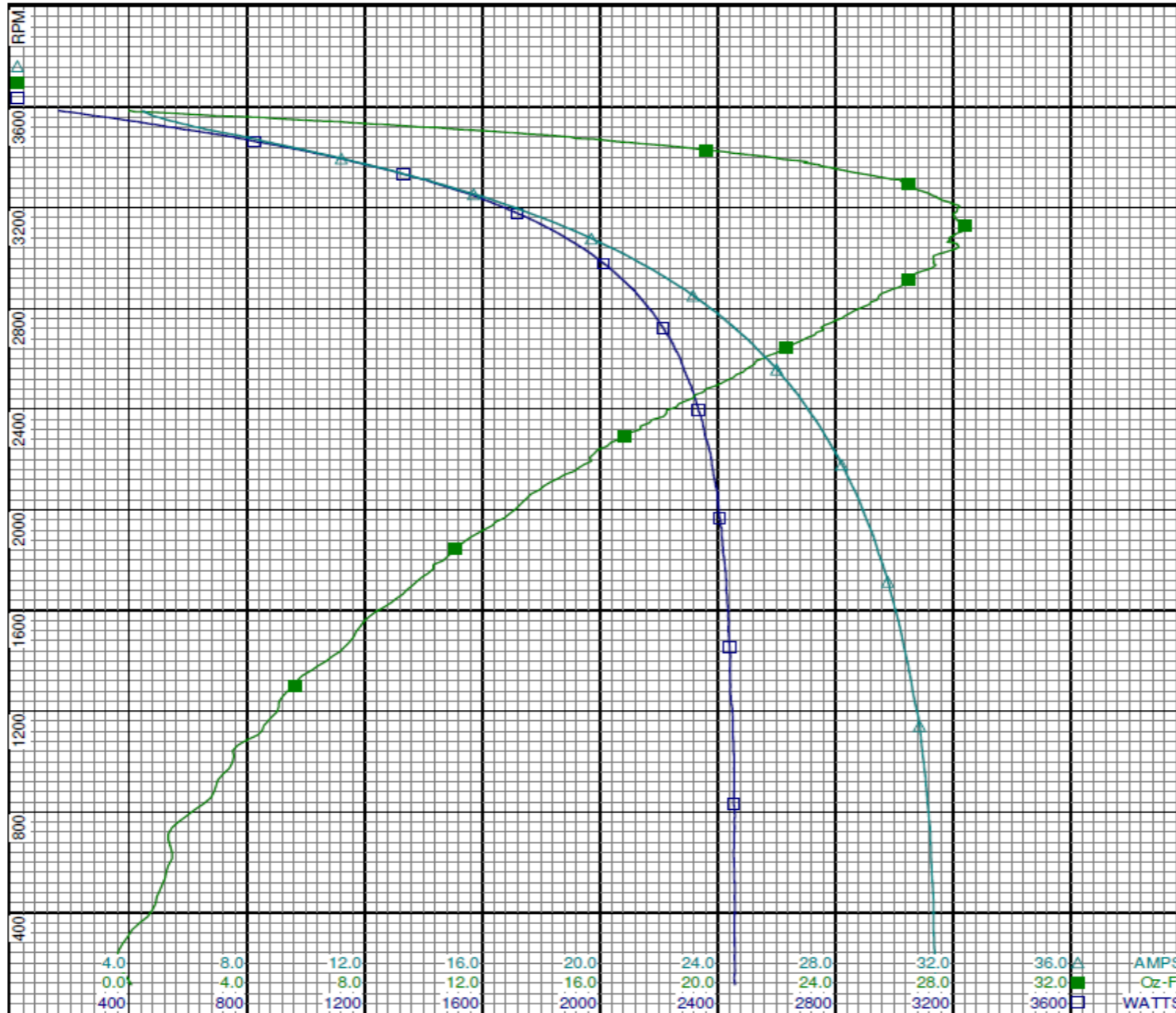
Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	114.4	29.7	4.47	159	3585	0.00	0.000	0.0	31.0
	115.0	110.5	29.9	5.39	401	3545	6.34	0.267	49.8	64.7
8.12 OZ-FT	115.0	109.3	29.8	5.79	467	3533	8.12	0.342	54.6	70.1
	115.0	105.9	30.0	6.89	624	3504	12.13	0.506	60.5	78.7
14.21 OZ-FT	115.0	103.8	30.0	7.67	718	3488	14.21	0.590	61.3	81.4
15 OZ-FT	115.0	102.8	30.0	7.98	753	3480	15.00	0.621	61.6	82.1
	115.0	101.1	30.0	8.60	827	3463	16.54	0.682	61.5	83.6
3450 RPM	115.0	99.7	30.1	9.13	889	3450	17.87	0.734	61.6	84.7
	115.0	96.0	30.1	10.24	1011	3421	20.24	0.825	60.9	85.8
	115.0	91.2	30.2	11.82	1177	3378	22.93	0.922	58.4	86.6
	115.0	86.3	30.3	13.36	1333	3332	25.02	0.992	55.5	86.7
	115.0	81.2	30.3	14.84	1472	3284	26.63	1.041	52.8	86.2
	115.0	76.3	30.2	16.28	1604	3232	27.59	1.062	49.4	85.6
	115.0	71.5	30.2	17.62	1719	3177	28.02	1.060	46.0	84.8
BDT OZ-FT	115.0	67.2	30.2	18.83	1819	3122	28.48	1.059	43.4	84.0
	115.0	66.6	30.1	18.96	1829	3116	28.47	1.056	43.1	83.9
	115.0	62.0	30.1	20.20	1926	3050	28.16	1.023	39.6	82.9
	115.0	57.4	30.2	21.39	2012	2979	27.34	0.969	36.0	81.8
	115.0	52.9	30.2	22.51	2088	2901	26.37	0.910	32.5	80.7
	115.0	48.4	30.2	23.57	2155	2816	25.17	0.844	29.2	79.5
	115.0	44.5	30.2	24.56	2214	2723	23.52	0.762	25.7	78.4
	115.0	40.4	30.1	25.47	2263	2622	21.99	0.687	22.6	77.3
	115.0	36.4	30.2	26.32	2301	2514	20.30	0.607	19.7	76.0
	115.0	32.7	30.3	27.09	2334	2395	18.26	0.521	16.6	74.9
	115.0	29.3	30.2	27.80	2366	2267	16.36	0.442	13.9	74.0
	115.0	25.9	30.1	28.44	2388	2126	14.61	0.370	11.5	73.0
	115.0	22.7	30.3	29.04	2406	1967	12.75	0.298	9.3	72.0
	115.0	19.9	30.2	29.51	2421	1812	10.80	0.233	7.2	71.3
	115.0	17.2	30.1	29.94	2433	1647	9.07	0.178	5.5	70.7
	115.0	14.6	30.2	30.33	2440	1455	7.32	0.127	3.9	70.0
	115.0	12.1	30.1	30.66	2444	1259	5.22	0.078	2.4	69.3
	115.0	9.6	30.1	30.93	2454	1064	3.69	0.047	1.4	69.0
	115.0	7.2	30.3	31.14	2454	833	2.54	0.025	0.8	68.5
	115.0	5.3	30.2	31.26	2456	588	1.33	0.009	0.3	68.3
	115.0	2.8	30.2	31.34	2457	330	0.08	0.000	0.0	68.2

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Dayton

Curve Descriptions:
Motor(1) Test 3 Run 115V 60 Hz 2P

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs IL

Motor Ratings:
(1) C055JXKAL215801 5K956BG

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

Performance Data



5K956BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: C055JXKAL215801 5K956BG
 Motor ID: 1 of 2
 Poles: 2
 Volts: 115/208-230
 Frequency: 60/50
 HP: 1/3
 Speed: 3450/2850
 Phase: 1
 Protector: MEJ56AX

Test Conditions

Test Type: Start
 Test Number: 10
 Poles: 2
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Amtps Performance Fixture #3
 Run Cap: 0
 Start Cap: 208 µFd
 Environment:
 Tested: 10/1/2002 1:01:29 PM
 Tested By: Mitchell (Mitch), L.
 Gear Ratio: 1:1
 Bearing Friction: -0.33 Oz-Ft
 Windage Torque: -2.64 Oz-Ft

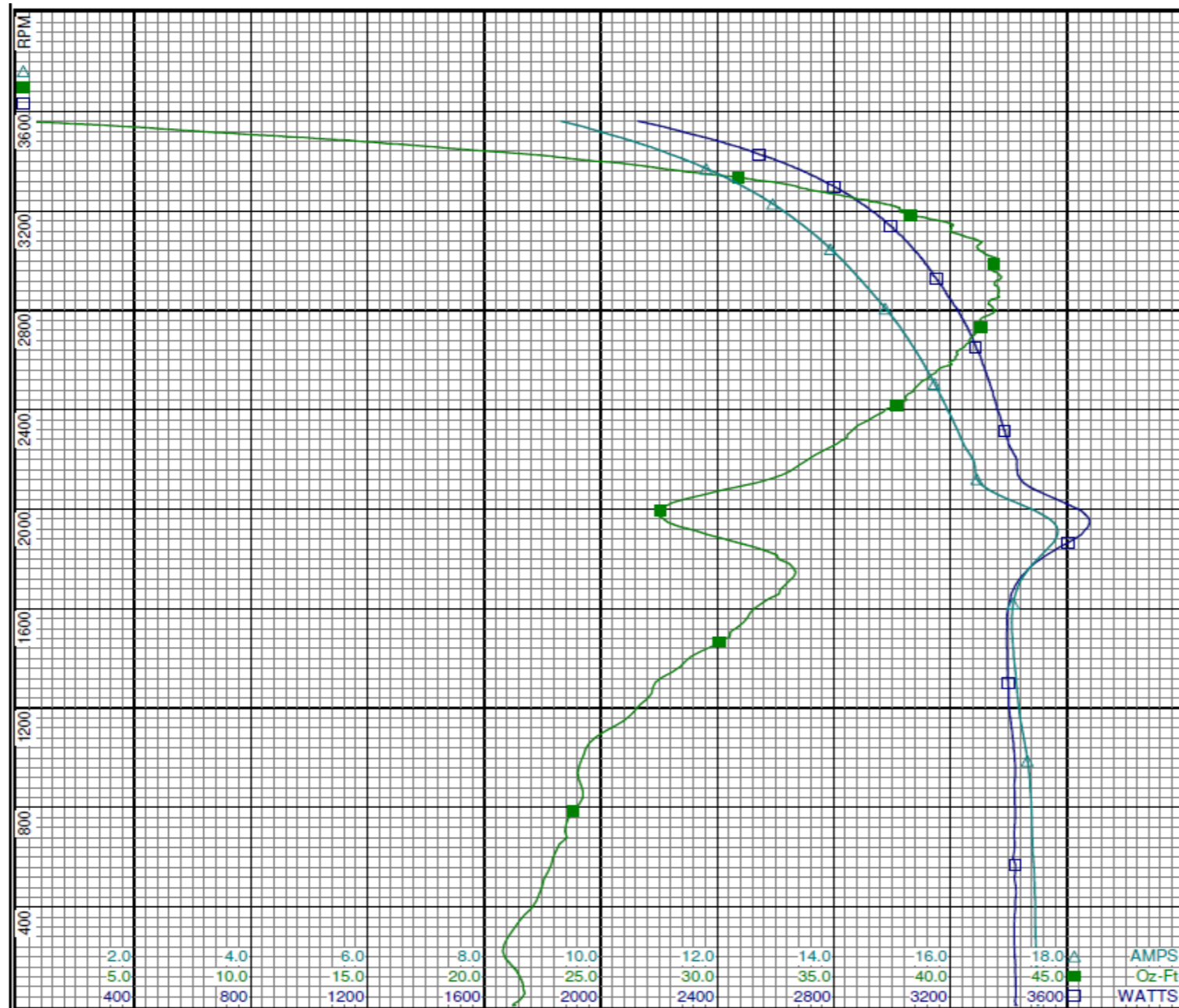
Special Points	Vline (V)	Vaux (V)	Vcap (V)	Iline (A)	Imain (A)	Iaux (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)	Cap
	230.0	194.0	113.1	17.501	15.274	9.171	3426	3	21.34	0.001	0.0	85.1	215.1
	230.0	194.3	112.7	17.490	15.223	9.146	3423	52	21.74	0.013	0.3	85.1	215.3
PUT OZ-FT	230.0	195.6	111.8	17.468	15.098	9.066	3419	221	20.79	0.055	1.2	85.1	215.1
	230.0	196.2	111.3	17.454	15.028	9.023	3418	306	21.22	0.077	1.7	85.1	215.1
	230.0	199.1	109.6	17.414	14.746	8.866	3415	597	22.95	0.163	3.6	85.3	214.5
	230.0	201.9	108.1	17.369	14.445	8.748	3420	864	24.23	0.249	5.4	85.6	214.6
	230.0	203.8	106.3	17.234	14.134	8.597	3411	1105	25.15	0.331	7.2	86.1	214.5
	230.0	207.4	103.5	17.118	13.737	8.344	3395	1324	27.63	0.435	9.6	86.2	213.8
	230.0	212.6	100.9	17.050	13.275	8.121	3394	1525	30.87	0.560	12.3	86.6	213.5
	230.0	221.7	100.4	17.200	12.663	8.061	3432	1712	33.09	0.674	14.7	86.7	213.1
	230.0	231.4	112.8	17.803	11.900	9.163	3625	1882	30.25	0.678	13.9	88.5	215.5
	230.0	215.3	116.7	16.955	11.886	9.523	3556	2043	28.72	0.698	14.7	91.2	216.5
	230.0	218.9	107.1	16.392	11.327	8.663	3427	2195	33.82	0.884	19.2	90.9	214.6
	230.0	222.1	104.1	16.098	10.806	8.400	3381	2326	35.88	0.994	21.9	91.3	214.1
	230.0	226.2	102.2	15.843	10.219	8.238	3348	2450	38.05	1.110	24.7	91.9	213.8
	230.0	230.2	101.0	15.594	9.683	8.134	3317	2559	39.44	1.201	27.0	92.5	213.7
	230.0	234.5	100.1	15.330	9.059	8.063	3284	2662	40.65	1.288	29.3	93.1	213.6
	230.0	239.2	99.7	15.039	8.394	8.025	3244	2762	41.25	1.356	31.2	93.8	213.5
	230.0	243.7	99.4	14.718	7.738	7.989	3193	2851	42.08	1.428	33.4	94.3	213.1
	230.0	248.9	99.5	14.408	7.078	8.006	3147	2934	42.18	1.473	34.9	95.0	213.4
	230.0	254.1	100.4	14.103	6.408	8.087	3099	3011	41.92	1.503	36.2	95.5	213.6
	230.0	259.6	101.9	13.783	5.749	8.210	3046	3080	41.18	1.510	37.0	96.1	213.7
	230.0	265.0	103.8	13.455	5.116	8.379	2989	3144	40.10	1.501	37.5	96.6	214.2
	230.0	270.3	106.2	13.120	4.517	8.587	2926	3201	37.97	1.447	36.9	97.0	214.4
	230.0	275.9	109.3	12.776	3.955	8.864	2865	3254	35.76	1.385	36.1	97.5	215.1
	230.0	281.0	113.0	12.405	3.444	9.187	2793	3303	33.19	1.305	34.9	97.9	215.6
	230.0	286.0	117.2	12.010	3.022	9.559	2714	3349	29.51	1.176	32.3	98.2	216.4
	230.0	290.9	121.5	11.598	2.767	9.956	2629	3392	25.87	1.044	29.6	98.6	217.4
	230.0	295.4	126.2	11.142	2.730	10.373	2534	3432	21.33	0.871	25.7	98.9	218.0
	230.0	299.7	131.0	10.660	2.950	10.819	2428	3471	15.80	0.653	20.1	99.0	219.1
	230.0	303.7	136.1	10.122	3.383	11.297	2308	3509	9.59	0.401	13.0	99.1	220.2
	230.0	307.3	140.9	9.566	3.980	11.775	2185	3546	3.32	0.140	4.8	99.3	221.6
	230.0	308.7	143.0	9.316	4.269	11.976	2128	3561	0.00	0.000	0.0	99.3	222.1

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Performance Data



5K956BG REV. -



Dayton

Curve Descriptions:
Motor(1) Test 10 Start 230V 60 Hz 2P

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

Motor Ratings:
(1) C055JXKAL215801 5K956BG

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

Performance Data



5K956BG

REV.

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Dayton Manufacturing Company

Motor Description

Model: C055JXKAL215801 5K956BG
 Motor ID: 1 of 2
 Poles: 2
 Volts: 115/208-230
 Frequency: 60/50
 HP: 1/3
 Speed: 3450/2850
 Phase: 1
 Protector: MEJ56AX

Test Conditions

Test Type: Run
 Test Number: 11
 Poles: 2
 Volts: 230
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: Aamps Performance Fixture #3
 Run Cap: 0
 Start Cap: 208 µFd
 Environment:
 Tested: 10/1/2002 10:34:54 AM
 Tested By: Mitchell (Mitch), L.
 Gear Ratio: 1:1
 Bearing Friction: -0.44 Oz-Ft
 Windage Torque: -3.23 Oz-Ft

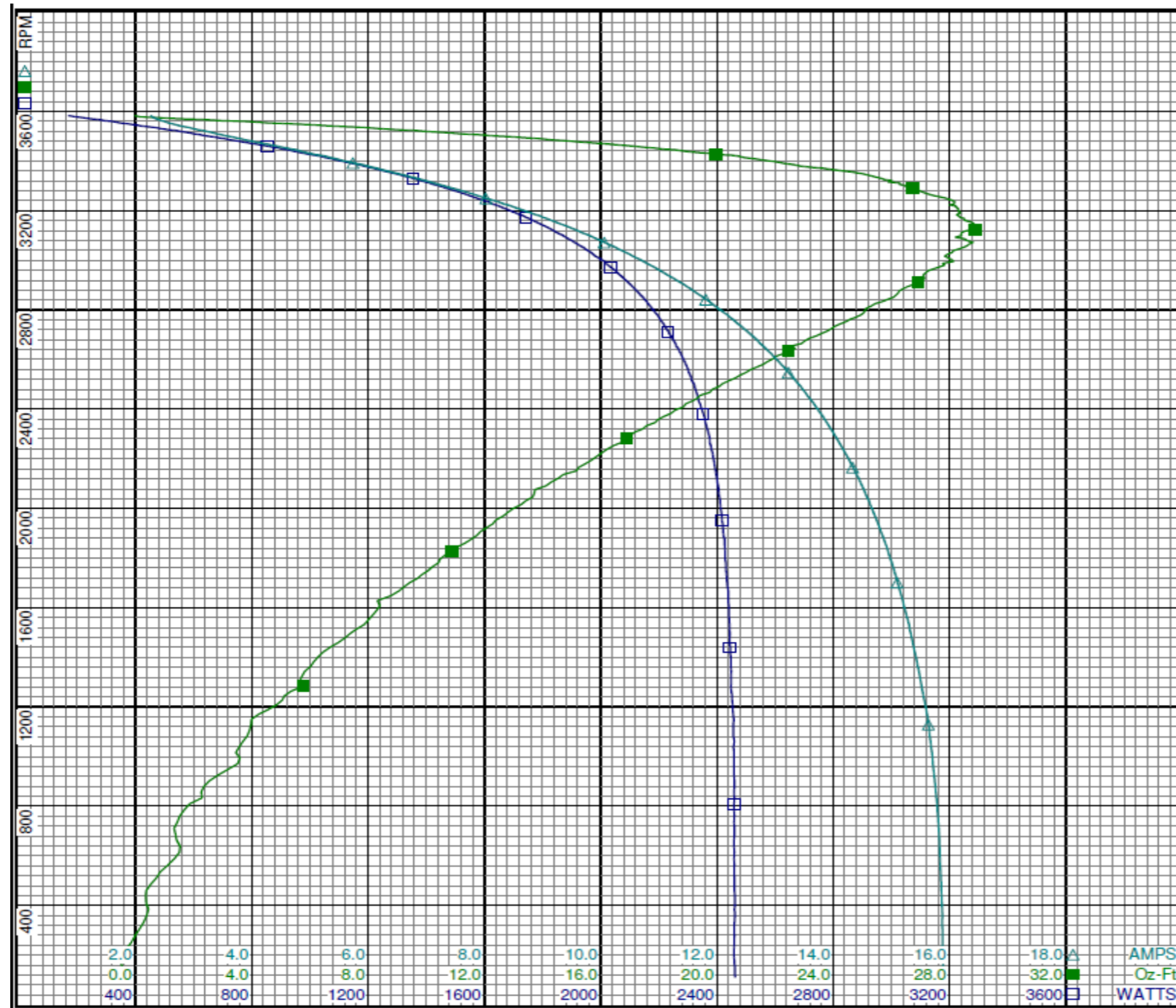
Special Points	Vline (V)	Vaux (V)	Vcap(V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	230.0	159.4	47.6	2.261	170	3582	0.00	0.000	0.0	32.6
	230.0	162.0	47.6	2.765	419	3541	6.68	0.281	50.1	65.9
8.12 OZ-FT	230.0	162.5	47.7	2.949	477	3532	8.12	0.341	53.4	70.3
	230.0	163.1	47.6	3.557	643	3501	12.35	0.515	59.7	78.6
14.21 OZ-FT	230.0	163.3	47.8	3.864	720	3486	14.21	0.590	61.1	81.1
15 OZ-FT	230.0	163.4	47.8	4.009	756	3478	15.00	0.621	61.3	82.0
	230.0	163.4	47.7	4.435	854	3459	17.10	0.704	61.5	83.7
3450 RPM	230.0	163.2	47.7	4.624	896	3450	17.91	0.736	61.3	84.2
	230.0	162.8	47.8	5.263	1036	3419	20.73	0.844	60.8	85.5
	230.0	161.9	47.9	6.065	1201	3375	23.18	0.931	57.8	86.1
	230.0	160.7	47.9	6.849	1355	3329	25.65	1.017	56.0	86.0
	230.0	159.3	47.9	7.596	1497	3280	26.94	1.052	52.4	85.7
	230.0	157.6	47.9	8.321	1626	3227	28.15	1.082	49.6	84.9
	230.0	155.8	48.0	9.008	1743	3172	28.36	1.071	45.8	84.1
BDT OZ-FT	230.0	154.2	48.0	9.548	1830	3124	28.88	1.074	43.8	83.3
	230.0	153.8	48.0	9.674	1849	3110	28.40	1.052	42.4	83.1
	230.0	151.7	48.0	10.309	1947	3044	28.28	1.025	39.2	82.1
	230.0	149.5	48.1	10.914	2034	2972	27.63	0.978	35.9	81.0
	230.0	147.3	48.1	11.485	2109	2893	26.54	0.914	32.3	79.8
	230.0	145.1	48.1	12.016	2175	2806	25.12	0.839	28.8	78.7
	230.0	142.7	48.1	12.512	2232	2714	23.78	0.768	25.7	77.5
	230.0	140.5	48.1	12.968	2278	2612	22.03	0.685	22.4	76.4
	230.0	138.3	48.1	13.393	2320	2502	20.19	0.601	19.3	75.3
	230.0	136.0	48.1	13.779	2352	2383	18.42	0.522	16.6	74.2
	230.0	133.7	48.1	14.129	2378	2252	16.44	0.441	13.8	73.2
	230.0	131.7	48.1	14.461	2400	2105	14.30	0.358	11.1	72.2
	230.0	129.6	48.1	14.744	2417	1952	12.39	0.288	8.9	71.3
	230.0	127.7	48.2	14.980	2427	1795	10.47	0.224	6.9	70.5
	230.0	126.0	48.2	15.191	2438	1628	8.33	0.161	4.9	69.8
	230.0	124.2	48.1	15.382	2445	1440	6.70	0.115	3.5	69.1
	230.0	122.7	48.0	15.547	2452	1244	5.12	0.076	2.3	68.6
	230.0	120.6	48.1	15.681	2456	1038	3.56	0.044	1.3	68.1
	230.0	118.8	48.1	15.781	2459	809	1.85	0.018	0.5	67.7
	230.0	117.4	48.1	15.839	2460	563	1.12	0.007	0.2	67.5
	230.0	116.0	48.1	15.875	2459	303	0.13	0.000	0.0	67.3

DRAWING NO. PAGE 7 of 8 REV.
 5K956BG -

Performance Data



5K956BG REV. -



Dayton

Curve Descriptions:
Motor(1) Test 11 Run 230V 60 Hz 2P

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

Motor Ratings:
(1) C055JXKAL215801 5K956BG

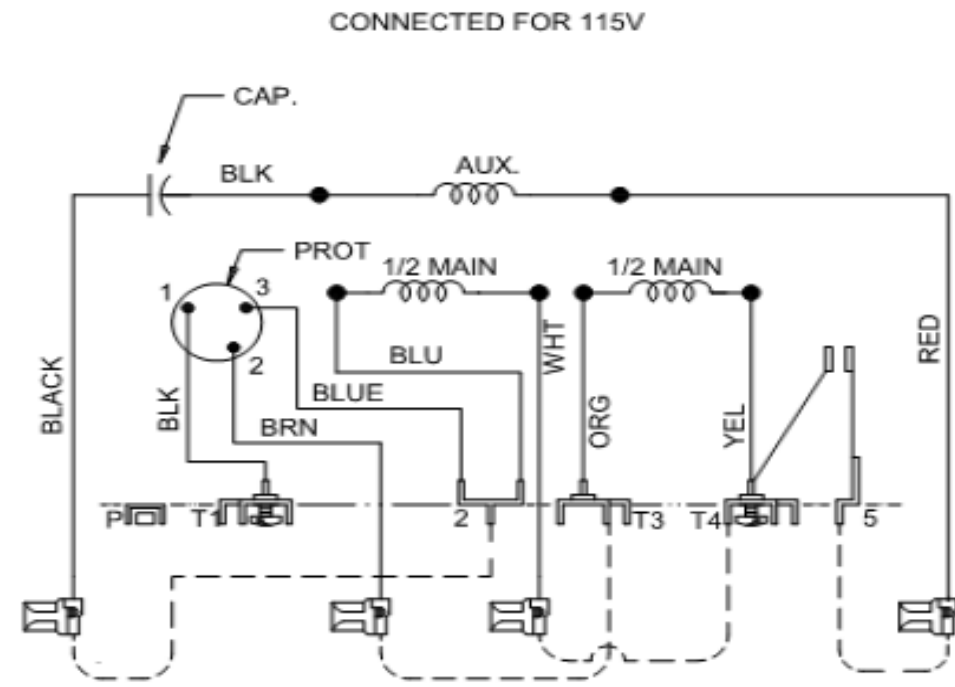
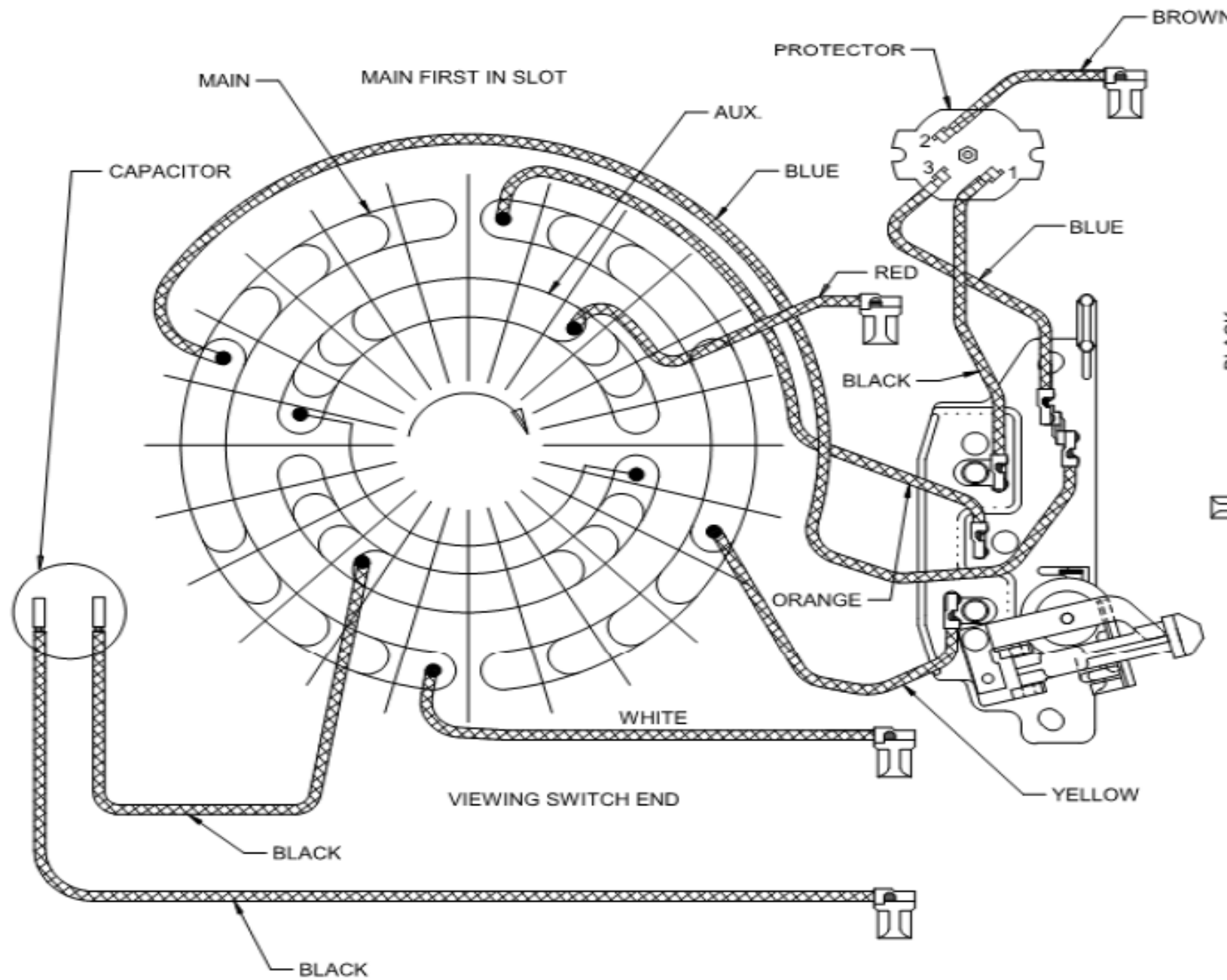
DRAWING NO. PAGE 8 of 8 REV.
5K956BG -

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

Wiring Diagram



5K956BG REV. -



FOR HIGH VOLTAGE:
 BRN TO P
 BLK TO 3
 WHT TO 3
 RED TO 5

ROTATION: CW LEAD END REVERSIBLE

TO REVERSE ROTATION INTERCHANGE BLACK AND RED LEADS.

C 2P DUAL VOLT REV W/CAP & PROT

DRAWING NO. PAGE 1 of 1 REV.
 5K956BG -

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

Dayton[®]

JET PUMP MOTOR

HP: 1/3

VOLTS: 115/230

AMPS: 6.2/3.1

RPM: 3450

DUTY: CONT

SF: 1.75

KVA CODE: P

ENCL: ODP

THERMALLY PROTECTED: AUTO

MFG. NO. PROT. CODE: 04440

MTR REF: C55JXKAL-2158

AVG. F.L.
EFF.

Part No 5K956BG

PH: 1

HZ: 60

FR: 56J

INS CL: B

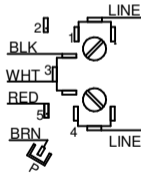
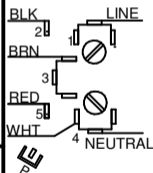
AMB: 40 °C

SFA: 8.5/4.3

**Disconnect Power Before Making
Any Electrical Connections or Changes****CONNECTIONS**

LOW VOLTAGE

HIGH VOLTAGE



E37403



258501

MOTOR IS CCW ROTATION SHAFT END

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

Made in Mexico