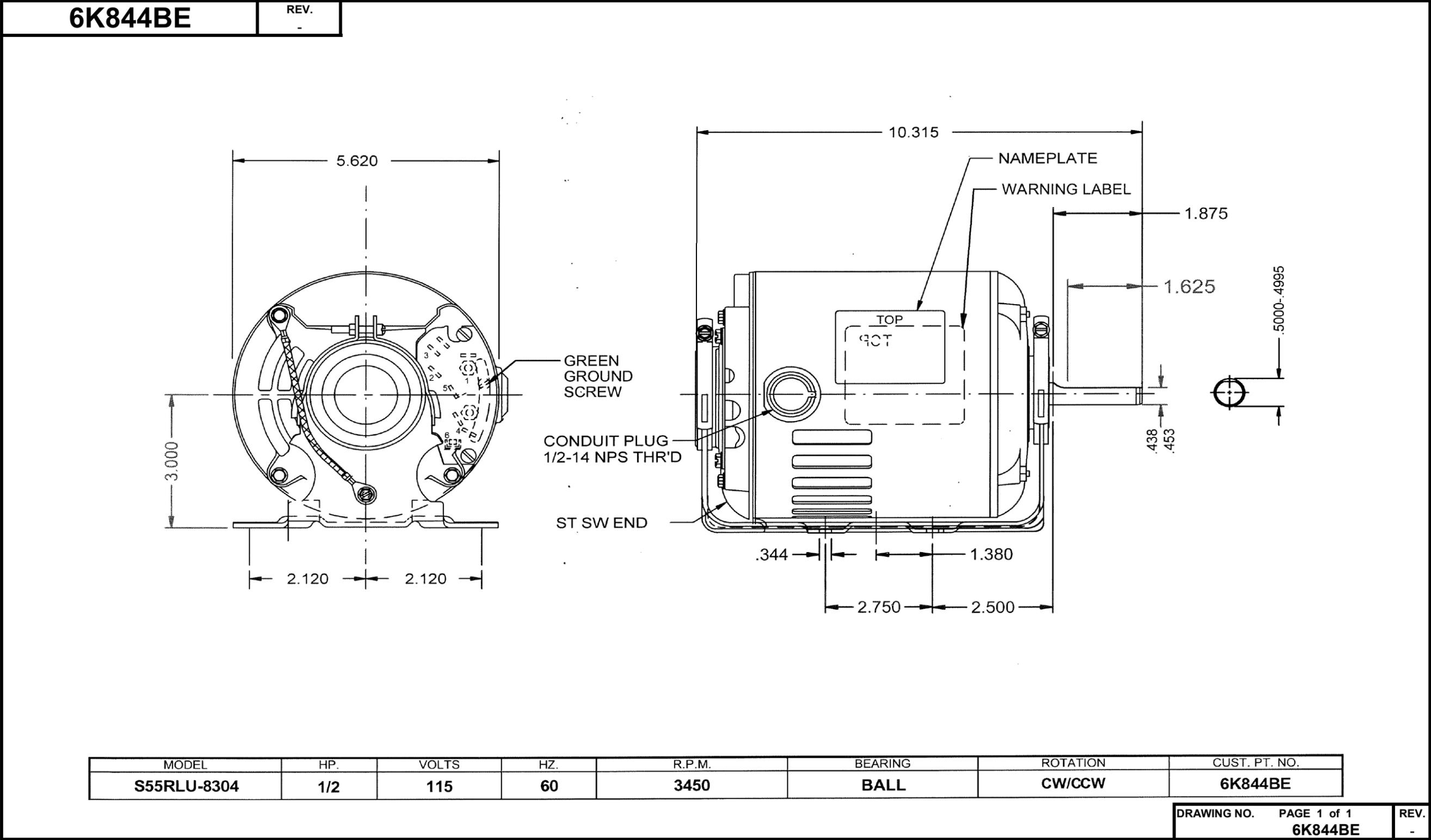


Dimensional Drawing



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

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Performance Data



6K844BE

REV.
-

MOTOR PERFORMANCE

HP:	1/2 HP							
Poles:	2							
No. of Speeds:	1							
Volts:	115	115						
HZ:	60	60						
Service Factor:	1							
Efficiency:	@ Rated Load	57.5						
Power Factor:	@ Rated Load	73						
Amps:	@ No Load							
	@ Rated Load	7.8						
	@ Service Factor	8.6						
	@ Locked Rotor	61.5						
RPM:	@ Rated Load							
Ambient (°C):	40							
Altitude (FASL):								
Torques:	Breakdown	33.4						
	Locked Rotor	19.4						
	Pull-Up	18.7						
	Rated Load							
	Service Factor							
Watts:	Rated Load							
KVA Code:								
Temperature Rise:	@ Rated Load	43.5						
	@ Service Factor	51.7						
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)	Cu						
	Run (Main)	Al						
Capacitor(s):	Start (MFD / Volts)							
	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:	@ Rated Load							
	Locked Rotor							
	Pull-Up							
	Rated Load							
	Service Factor							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							
	@ Service Factor							

DRAWING NO. PAGE 1 REV.
6K844BE -

Performance Data



6K844BE	REV. -
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Dayton Manufacturing Company

Motor Description

Model: S055RLU830401
 Motor ID: 1
 Poles: 2
 Volts: 115
 Frequency: 60
 HP: 1/2
 Speed: 3450
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Start
 Test Number: 2
 Poles: 2
 Volts: 115
 Hz: 60
 Rotation:
 Special Cond: 2 Line
 Speed Conn:
 TestBoard: Amps Performance Fixture #3
 Run Cap: 0
 Start Cap: 0µfd
 Tested: 2/10/2012 9:46:47 AM
 Gear Ratio: 1:1
 Bearing Friction: -0.77 Oz-Ft
 Windage Torque: -2.86 Oz-Ft

Special Points	Vline	Iline	Watts	Speed	Tq (Oz-ft)	HP	Eff (%)	PF (%)
PUT OZ-FT	115.0	61.48	6157	1	19.36	0.000	0.0	87.1
	115.0	61.20	6129	48	18.72	0.011	0.1	87.1
	115.0	61.20	6129	48	18.72	0.011	0.1	87.1
	115.0	61.10	6104	307	18.98	0.069	0.8	86.9
	115.0	60.58	6071	596	20.47	0.145	1.8	87.1
	115.0	60.01	6021	864	21.68	0.223	2.8	87.2
	115.0	59.33	5964	1105	23.80	0.313	3.9	87.4
	115.0	58.69	5913	1324	24.75	0.390	4.9	87.6
	115.0	57.97	5857	1525	26.60	0.483	6.2	87.9
	115.0	57.13	5787	1710	28.20	0.574	7.4	88.1
	115.0	56.21	5709	1882	29.80	0.668	8.7	88.3
	115.0	55.22	5622	2043	31.25	0.760	10.1	88.5
	115.0	54.22	5536	2188	32.31	0.842	11.3	88.8
	115.0	53.17	5443	2322	33.05	0.914	12.5	89.0
	115.0	52.15	5346	2438	33.38	0.969	13.5	89.2
	115.0	51.05	5243	2554	33.78	1.027	14.6	89.3
	115.0	49.91	5136	2660	33.04	1.046	15.2	89.5
	115.0	43.70	4396	2758	30.10	0.988	16.8	87.5
	115.0	23.68	2336	2848	30.55	1.036	33.1	85.8
	115.0	22.02	2187	2931	30.88	1.077	36.7	86.4
	115.0	20.69	2070	3005	31.04	1.110	40.0	87.0
	115.0	19.33	1944	3075	30.72	1.124	43.2	87.5
	115.0	17.95	1811	3138	30.18	1.127	46.4	87.8
	115.0	16.56	1675	3196	29.76	1.132	50.4	88.0
	115.0	15.19	1534	3249	28.08	1.086	52.8	87.8
	115.0	13.81	1388	3298	25.93	1.018	54.7	87.4
	115.0	12.44	1238	3345	24.17	0.962	58.0	86.5
	115.0	11.07	1083	3387	21.14	0.853	58.7	85.1
	115.0	9.70	915	3428	17.39	0.710	57.9	82.0
	115.0	8.54	759	3467	14.39	0.594	58.4	77.3
	115.0	7.43	582	3505	9.95	0.415	53.2	68.1
	115.0	6.56	410	3542	5.17	0.218	39.6	54.3
	115.0	6.17	234	3579	0.00	0.000	0.0	33.0

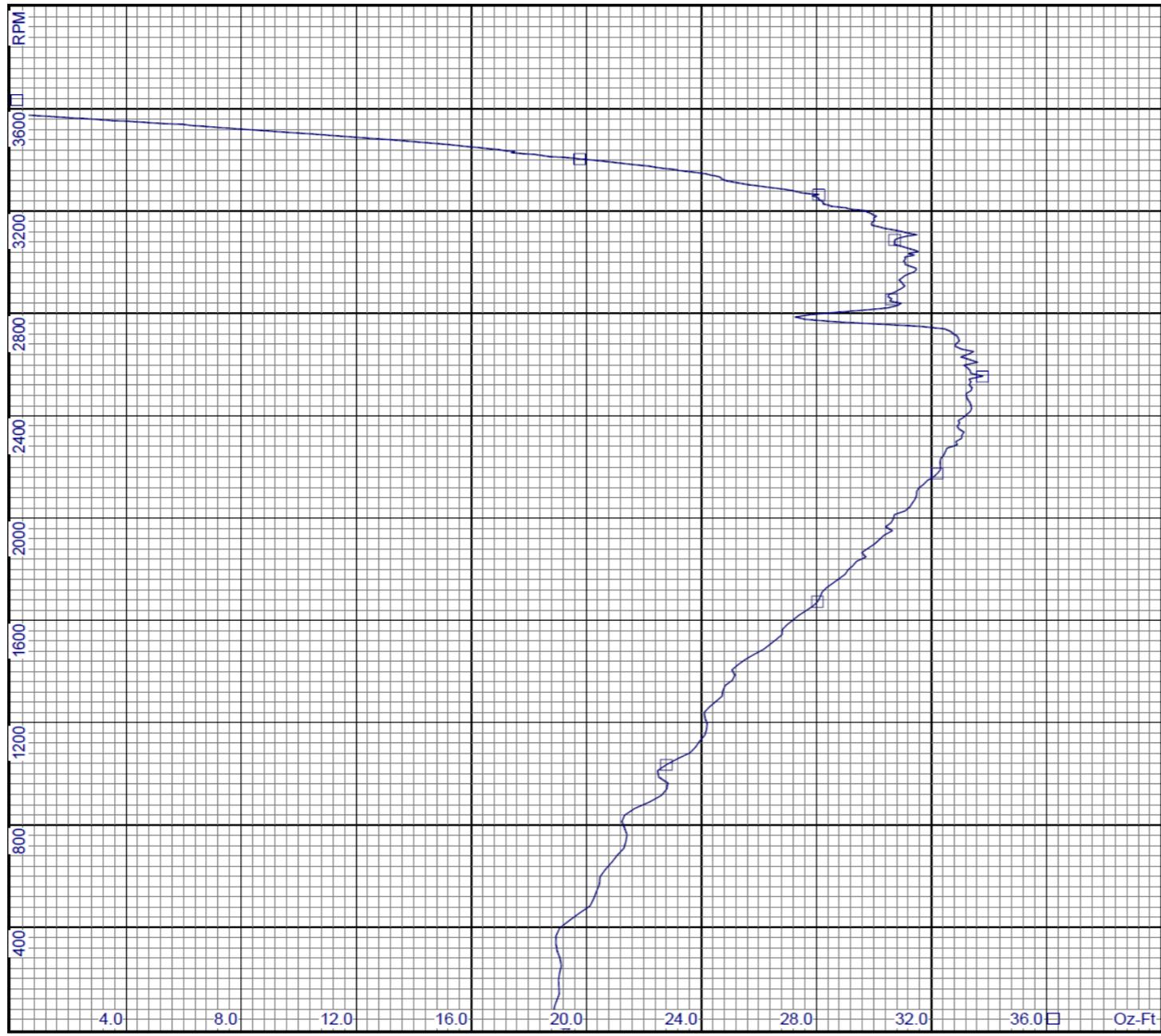
DRAWING NO.	PAGE 1 of 4	REV.
6K844BE		-

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

Performance Data



6K844BE REV.
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Curve Descriptions:
Motor(1) Test 2 Start 115V 60 Hz 2P
2 Line
□ SPEED vs TORQUE

Motor Ratings:
(1) S055RLU830401 ID: 1

DRAWING NO.	PAGE 2 of 4	REV.
6K844BE		-

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

Performance Data



6K844BE REV.
-

Dayton Manufacturing Company

Motor Description

Model: S055RLU830401
 Motor ID: 1
 Poles: 2
 Volts: 115
 Frequency: 60
 HP: 1/2
 Speed: 3450
 Phase: 1
 Protector: NONE

Test Conditions

Test Type: Run Run Cap: 0
 Test Number: 4 Start Cap: 0µfd
 Poles: 2
 Volts: 115 Tested: 2/10/2012 9:45:59 AM
 Hz: 60
 Rotation: Gear Ratio: 1:1
 Special Cond: 2 Line Bearing Friction: -0.83 Oz-Ft
 Speed Conn: Windage Torque: -3.11 Oz-Ft
 TestBoard: Amtps Performance Fixture #3

Special Points	Vline	Iline	Watts	Speed	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	115.0	6.02	230	3568	0.00	0.000	0.0	33.2
	115.0	6.61	450	3527	6.64	0.279	46.2	59.2
0.5 HP	115.0	7.73	649	3490	12.04	0.500	57.5	73.0
12.2 OZ-FT	115.0	7.77	657	3488	12.20	0.507	57.5	73.5
	115.0	7.80	661	3487	12.28	0.510	57.6	73.7
0.625 HP	115.0	8.61	775	3463	15.16	0.625	60.2	78.3
15.2 OZ-FT	115.0	8.63	777	3463	15.20	0.627	60.1	78.3
3450 RPM	115.0	9.06	834	3450	16.42	0.674	60.3	80.0
	115.0	9.16	847	3447	16.82	0.690	60.8	80.4
	115.0	10.65	1039	3405	20.77	0.842	60.4	84.8
	115.0	12.11	1208	3361	23.91	0.957	59.1	86.7
	115.0	13.66	1377	3315	27.06	1.068	57.9	87.6
	115.0	15.18	1536	3266	28.70	1.116	54.2	88.0
	115.0	16.70	1691	3213	31.21	1.194	52.6	88.1
	115.0	18.21	1841	3156	32.11	1.206	48.9	87.9
	115.0	19.66	1979	3094	32.45	1.195	45.1	87.5
BDT OZ-FT	115.0	20.67	2071	3047	33.44	1.213	43.7	87.1
	115.0	21.10	2109	3026	32.91	1.186	41.9	86.9
	115.0	22.48	2231	2953	32.82	1.154	38.6	86.3
	115.0	23.84	2342	2873	32.19	1.101	35.1	85.4
	115.0	25.11	2448	2785	31.31	1.038	31.6	84.8
	115.0	26.32	2544	2690	30.11	0.964	28.3	84.0
	115.0	27.47	2625	2588	28.54	0.879	25.0	83.1
	115.0	28.55	2704	2476	26.83	0.791	21.8	82.3
	115.0	29.55	2771	2354	24.93	0.699	18.8	81.5
	115.0	30.51	2835	2216	22.67	0.598	15.7	80.8
	115.0	31.35	2884	2074	20.38	0.503	13.0	80.0
	115.0	32.12	2930	1916	18.06	0.412	10.5	79.3
	115.0	32.77	2967	1758	15.82	0.331	8.3	78.7
	115.0	36.40	3349	1586	15.19	0.287	6.4	80.0
	115.0	61.78	6217	1400	26.09	0.435	5.2	87.5
	115.0	61.95	6217	1213	24.72	0.357	4.3	87.3
	115.0	62.01	6205	993	23.77	0.281	3.4	87.0
	115.0	62.15	6217	757	21.57	0.194	2.3	87.0
	115.0	62.10	6211	509	20.74	0.126	1.5	87.0
	115.0	61.89	6196	245	19.46	0.057	0.7	87.1

DRAWING NO. PAGE 3 of 4 REV.
 6K844BE -

Performance Data



6K844BE

REV.

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Curve Descriptions:
Motor(1) Test 4 Run 115V 60 Hz 2P
2 Line
□ SPEED vs TORQUE

Motor Ratings:
(1) S055RLU830401 ID: 1

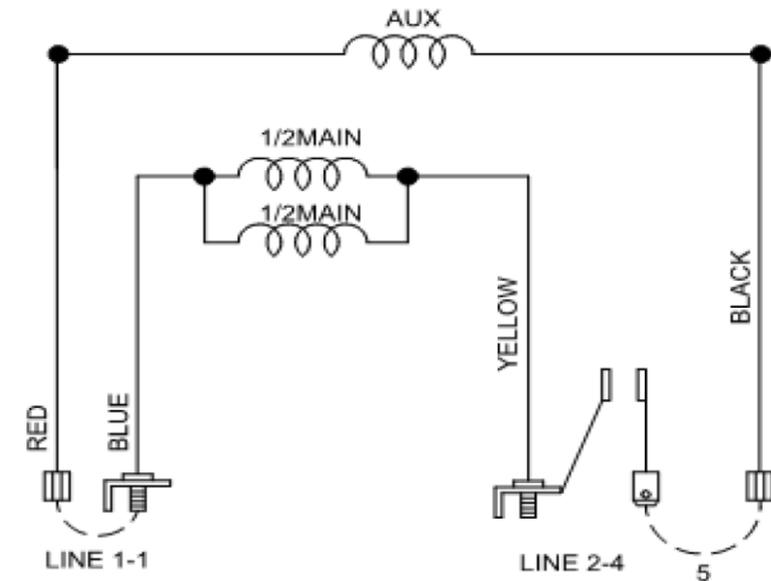
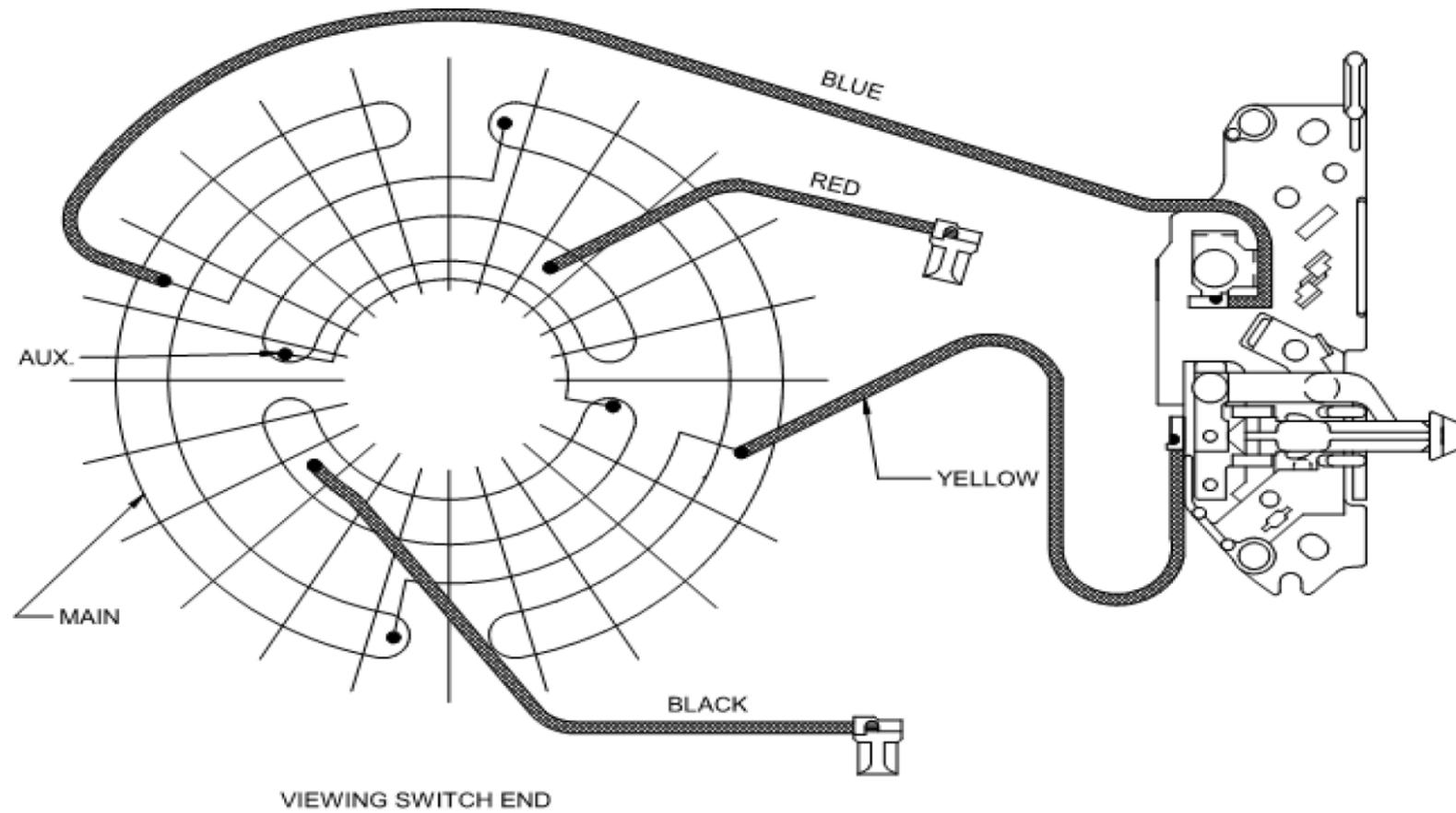
DRAWING NO.	PAGE 4 of 4	REV.
6K844BE		-

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

Wiring Diagram



6K844BE	REV. -
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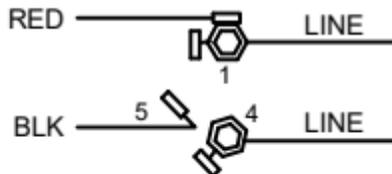


TO OBTAIN C.CW ROTATION AT LEAD END
INTERCHANGE RED & BLACK Q.C. LEADS.

ROTATION: CCW SWITCH END REV.

DRAWING NO.	PAGE 1 of 1	REV.
6K844BE		-

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

Dayton[®]Part No **6K844BE****SPLIT PHASE
MOTOR****HP:** 1/2**VOLTS:** 115**AMPS:** 7.8**RPM:** 3450**DUTY:** CONT**SF:** 1.25**KVA CODE :** R**MTR REF:** S55RLU-8304**THERMALLY PROTECTED:** NONEPROT. CODE: MFG. NO. **PH:** 1**HZ:** 60**FR:** 48Z**INS CL:** B**AMB:** 40 °C**SFA:** 8.6**ENCL:** ODP**Disconnect Power Before Making
Any Electrical Connections or Changes****CONNECTIONS****TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS**

258501



E47479

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

Made in Mexico