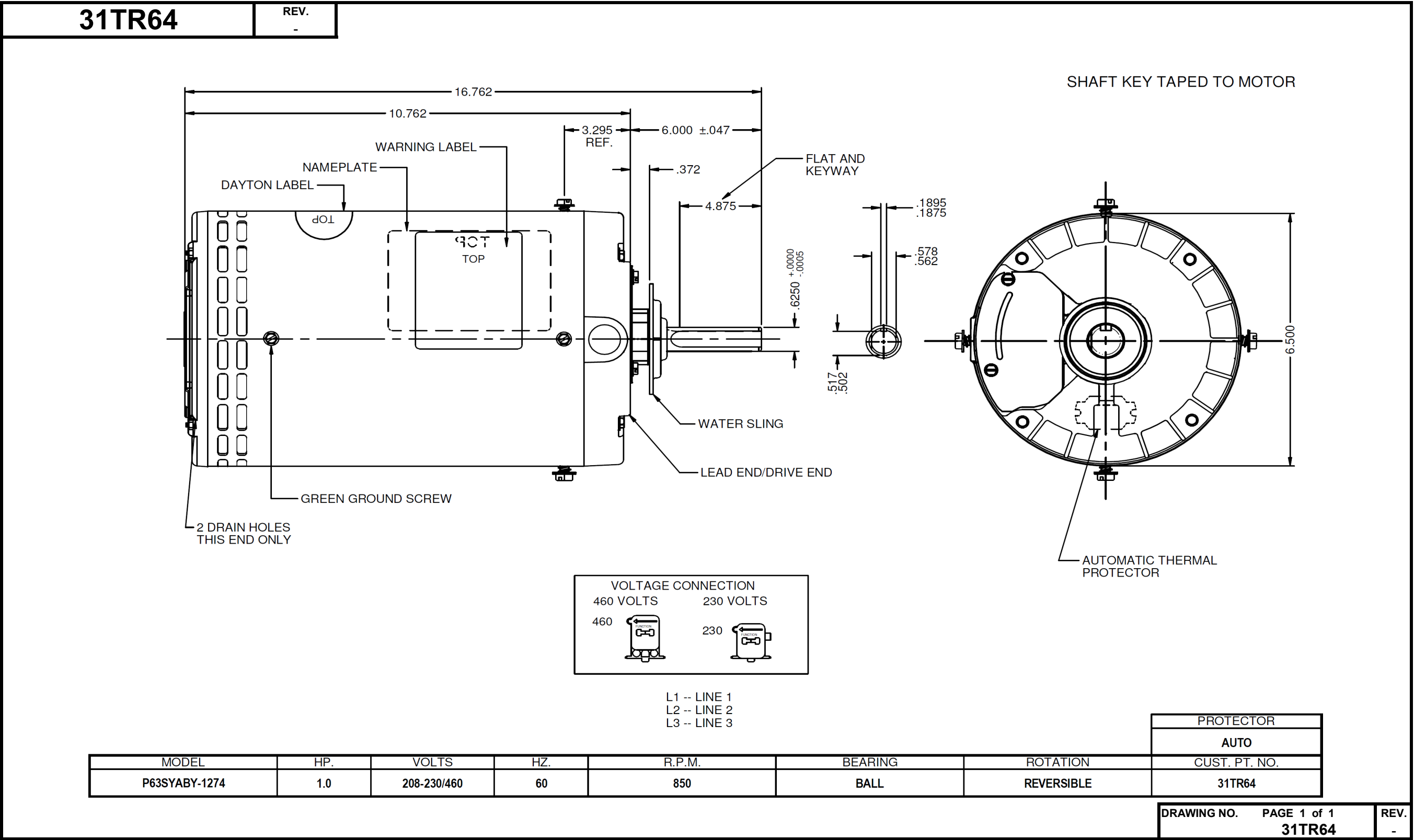


Dimensional Drawing



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

Performance Data



31TR64		REV. -				
THREE PHASE MOTOR PERFORMANCE						
HP:	1					
Poles:	8					
Volts:	208-230/460	208	230	460		
HZ:	60	60	60	60		
Service Factor:	1.00					
Efficiency (%):	Full Load	1.0	1.0	1.0		
	Service Factor	1.0	1.0	1.0		
	3/4	0.8	0.8	0.8		
	1/2	0.5	0.5	0.5		
	1/4	0.3	0.3	0.3		
Power Factor (%):	Full Load	72.6	73.6	73.6		
	Service Factor	72.6	73.6	73.6		
	3/4	73.9	72.3	72.8		
	1/2	70.2	67.8	68.2		
	1/4	58.6	54.5	54.6		
Amps:	Full Load	72.2	79.7	154.6		
	Service Factor	72.2	79.7	154.6		
	3/4	71.7	79.3	154.5		
	1/2	71.5	79.1	154.4		
	1/4	71.3	79.0	154.3		
	No Load					
	Locked Rotor	13.5	15.3	7.7		
NEMA Code Letter:						
NEMA Design Letter:						
Full Load RPM:		1027	1014	1013		
NEMA Nominal Efficiency (%):						
Guaranteed Efficiency (%):						
Max KVAR:						
Ambient (°C):						
Altitude (FASL):						
Full Load Torque	Lb.Ft. / Oz.Ft. (Circle One)	838.00	852.00	852.00		
Torques: % Full-Load	Breakdown	634.00	632.00	630.00		
	Locked Rotor	126.58	164.64	163.70		
	Pull-Up	126.58	164.64	163.70		
	Service Factor	838.00	852.00	852.00		
Temperature Rise:	Full Load					
	Service Factor					
Winding Material:		CU				
Notes:						

DRAWING NO. PAGE 1 of 1
31TR64

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

Performance Data



31TR64

REV.

-

Dayton Manufacturing Company

Motor Description

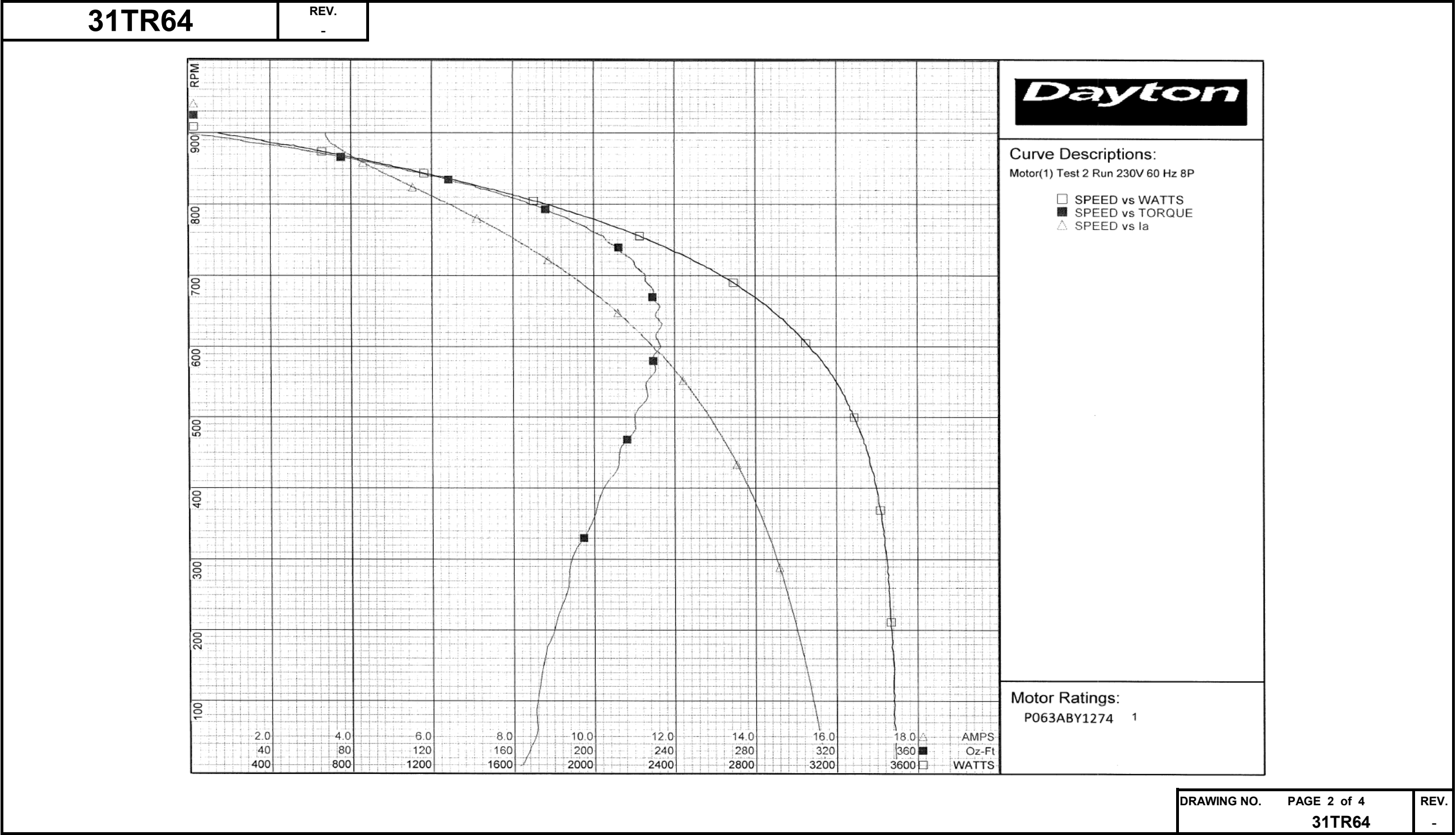
Model: P063ABY1274
Motor ID: 1
Poles: 8
Volts: 208-230/460 & 190/380
Frequency: 60/50
HP: 1
Speed: 850/710
Phase: 3
Protector:

Test Conditions

Test Type: Run
Test Number: 2
Poles: 8
Volts: 230
Hz: 60
Rotation:
Special Cond:
Speed Conn:
TestBoard: Amtps Performance Fixture #1
Run Cap: 0
Start Cap: 0µfd
Environment: 19.6 Deg C 33 % RH 998 hPa
Tested: 4/22/2013 2:07:37 PM
Tested By: Sharp, Gerald
Gear Ratio: 1:1
Bearing Friction: 0.00 Oz-Ft
Windage Torque: -1.12 Oz-Ft

Special Points	Vab (V)	Vbc (V)	Vca (V)	Ia (A)	Ib (A)	Ic (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	229.2	230.8	230.0	3.368	3.392	3.296	141	899	0.0	0.000	0.0	10.6
	229.1	231.0	229.9	3.410	3.430	3.325	295	892	17.8	0.189	47.7	21.8
	229.1	230.9	230.0	3.594	3.596	3.471	501	882	42.3	0.444	66.2	35.4
	229.2	230.9	229.9	3.823	3.811	3.671	656	874	59.9	0.623	70.9	43.7
	229.2	230.8	230.1	4.110	4.097	3.935	825	864	78.8	0.810	73.2	51.2
	229.2	230.6	230.1	4.436	4.431	4.232	994	855	96.3	0.980	73.5	57.2
1 HP	229.3	230.6	230.1	4.482	4.476	4.276	1014	852	98.5	1.000	73.6	57.7
98.8 OZ-FT	229.2	230.6	230.1	4.486	4.480	4.280	1016	852	98.8	1.003	73.6	57.8
850 RPM	229.3	230.5	230.2	4.601	4.594	4.383	1067	850	104.2	1.055	73.7	59.2
	229.1	230.5	230.3	4.811	4.805	4.597	1163	843	114.4	1.149	73.7	61.6
	229.0	230.7	230.3	5.240	5.213	4.999	1336	832	130.6	1.294	72.2	65.1
	229.0	230.7	230.4	5.721	5.680	5.442	1519	819	148.0	1.444	70.9	67.9
	229.0	230.7	230.3	6.247	6.200	5.929	1704	805	164.7	1.578	69.1	69.8
	229.0	230.6	230.4	6.776	6.724	6.411	1881	790	178.0	1.674	66.4	71.1
	229.0	230.6	230.4	7.328	7.263	6.926	2054	773	191.5	1.764	64.1	71.9
	229.0	230.6	230.4	7.918	7.840	7.472	2229	755	204.7	1.841	61.6	72.3
	229.0	230.5	230.5	8.490	8.409	8.002	2388	735	213.2	1.866	58.3	72.2
	228.9	230.6	230.5	9.082	8.992	8.552	2545	714	220.4	1.874	54.9	72.0
	229.0	230.6	230.5	9.674	9.577	9.098	2692	690	226.1	1.858	51.5	71.5
	228.9	230.6	230.5	10.260	10.149	9.637	2825	664	230.3	1.820	48.0	70.8
	228.9	230.6	230.5	10.831	10.713	10.162	2946	636	232.5	1.760	44.6	70.0
BDT OZ-FT	228.9	230.6	230.5	10.889	10.770	10.215	2956	632	233.7	1.760	44.4	69.8
	228.9	230.6	230.5	11.376	11.243	10.662	3050	605	232.4	1.674	40.9	69.0
	229.0	230.5	230.5	11.918	11.757	11.135	3146	572	230.3	1.570	37.2	68.1
	229.0	230.4	230.6	12.404	12.238	11.584	3224	538	226.1	1.448	33.5	67.0
	228.9	230.6	230.6	12.868	12.675	12.007	3287	500	220.2	1.311	29.7	65.9
	228.8	230.7	230.6	13.287	13.088	12.415	3345	460	214.0	1.171	26.1	64.9
	228.8	230.6	230.6	13.694	13.485	12.776	3386	416	209.0	1.036	22.8	63.8
	228.8	230.6	230.6	14.071	13.850	13.126	3416	369	201.0	0.884	19.3	62.7
	228.9	230.4	230.7	14.412	14.177	13.433	3436	320	192.2	0.732	15.9	61.6
	228.8	230.6	230.6	14.703	14.454	13.714	3456	267	187.2	0.594	12.8	60.7
	228.8	230.6	230.6	14.974	14.713	13.963	3469	211	181.0	0.455	9.8	59.8
	228.8	230.6	230.6	15.224	14.952	14.209	3483	152	174.6	0.315	6.8	59.1
	228.8	230.5	230.7	15.463	15.173	14.429	3484	88	171.0	0.180	3.8	58.2
	228.8	230.5	230.7	15.685	15.383	14.645	3491	21	166.0	0.042	0.9	57.5

Performance Data



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

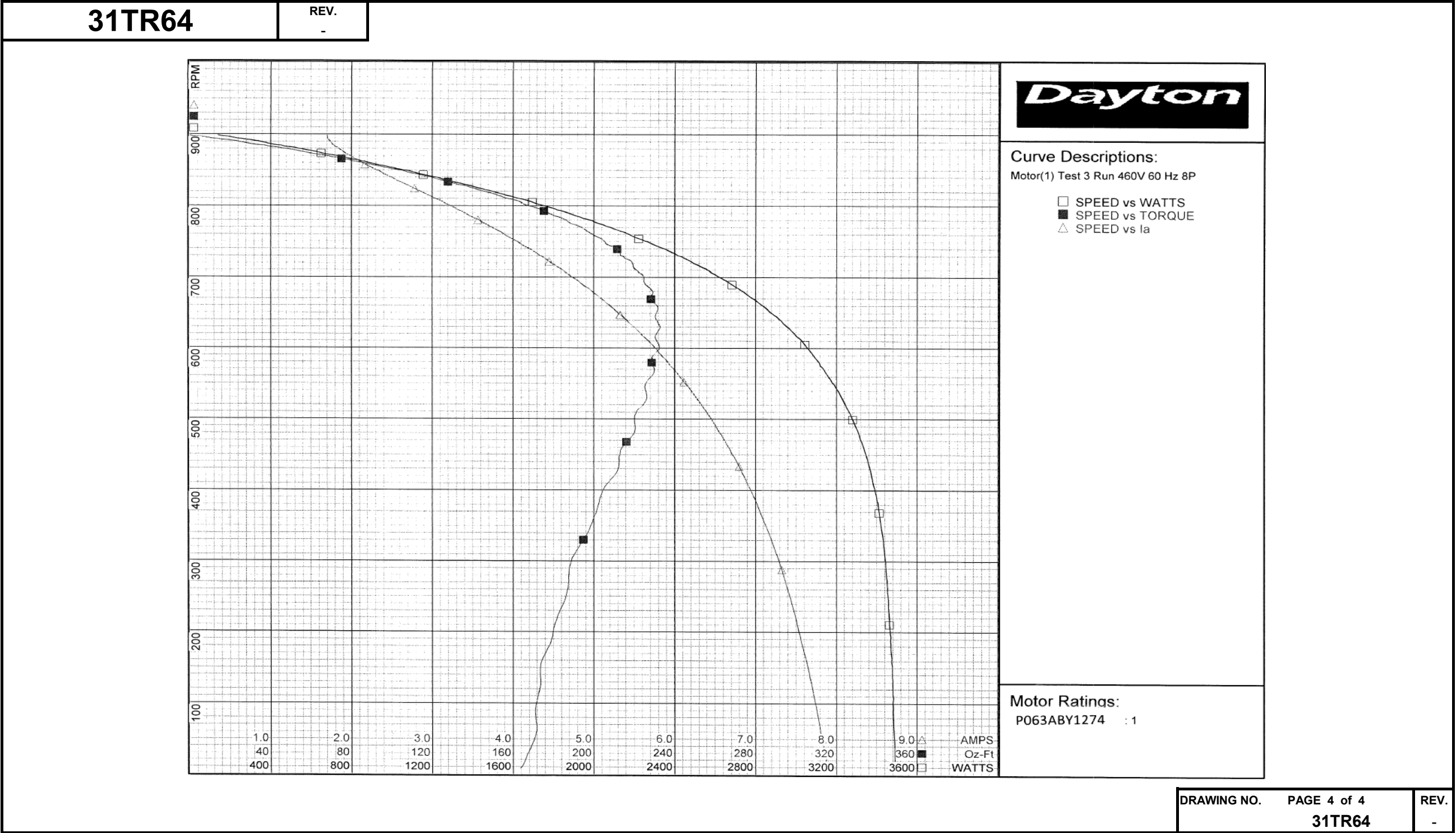
Performance Data



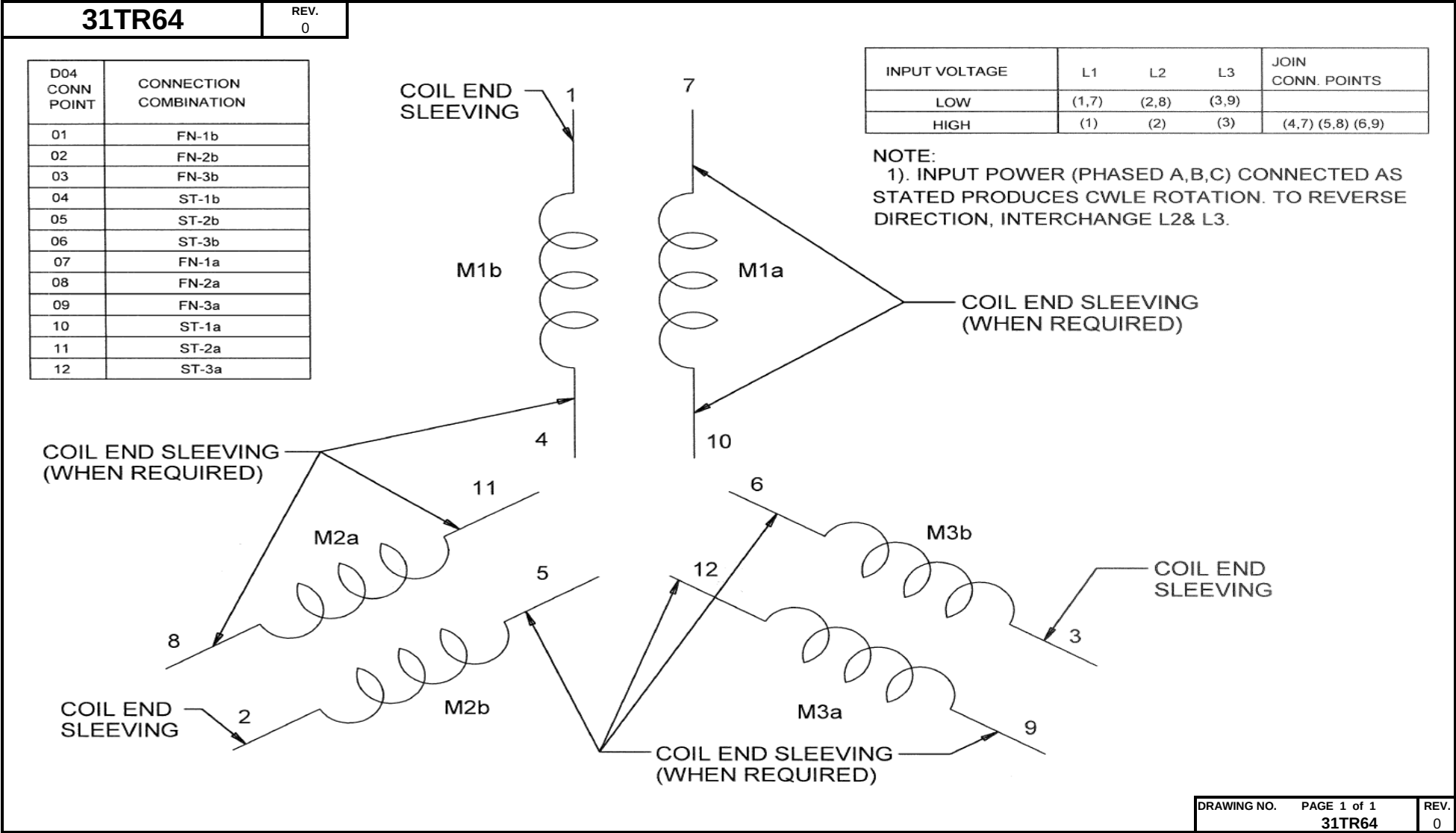
31TR64			REV. -									
Dayton Manufacturing Company												
Motor Description				Test Conditions								
Model:		P063ABY1274		Test Type:		Run		Run Cap:		0		
Motor ID:		1		Test Number:		3		Start Cap:		0μfd		
Poles:		8		Poles:		8		Environment:		19.8 Deg C 32 % RH 999 hPa		
Volts:		208-230/460 & 190/380		Volts:		460		Tested:		4/22/2013 12:51:15 PM		
Frequency:		60/50		Hz:		60		Tested By:		Sharp, Gerald		
HP:		1		Rotation:				Gear Ratio:		1:1		
Speed:		850/710		Special Cond:				Bearing Friction:		0.00 Oz-Ft		
Phase:		3		Speed Conn:				Windage Torque:		-0.96 Oz-Ft		
Protector:				TestBoard:		Amps Performance Fixture #1						
Special Points	Vab (V)	Vbc (V)	Vca (V)	Ia (A)	Ib (A)	Ic (A)	Watts	RPM	Tq (Oz- ft)	HP	Eff (%)	PF (%)
	460.1	460.5	459.4	1.700	1.708	1.632	139	899	0.0	0.000	0.0	10.4
	460.1	460.5	459.4	1.721	1.730	1.642	295	892	18.3	0.194	49.1	21.8
	460.1	460.5	459.4	1.809	1.810	1.707	491	882	41.2	0.432	65.8	34.7
	460.1	460.5	459.4	1.923	1.919	1.804	650	873	59.2	0.616	70.6	43.4
	460.1	460.5	459.4	2.070	2.062	1.937	820	864	78.2	0.805	73.2	50.9
	460.1	460.6	459.4	2.234	2.222	2.088	988	854	95.7	0.973	73.4	56.8
1 HP	460.1	460.6	459.4	2.262	2.249	2.113	1013	852	98.6	1.000	73.6	57.6
98.8 OZ-FT	460.1	460.6	459.4	2.264	2.251	2.115	1015	852	98.8	1.002	73.6	57.7
850 RPM	460.0	460.6	459.4	2.303	2.289	2.151	1051	850	102.6	1.038	73.7	58.7
	460.1	460.5	459.4	2.423	2.407	2.260	1156	843	113.5	1.140	73.5	61.4
2.5 AMPS	460.1	460.6	459.4	2.500	2.482	2.331	1222	840	119.5	1.194	72.9	62.9
	460.1	460.5	459.4	2.647	2.626	2.466	1339	832	130.9	1.295	72.2	65.2
	460.1	460.6	459.4	2.879	2.856	2.681	1515	818	147.6	1.438	70.8	67.8
	460.1	460.5	459.4	3.138	3.111	2.918	1696	805	163.9	1.570	69.1	69.7
	460.1	460.5	459.4	3.401	3.369	3.162	1873	790	177.4	1.667	66.4	71.0
	460.2	460.4	459.4	3.676	3.638	3.412	2045	774	190.7	1.756	64.1	71.8
	460.0	460.6	459.4	3.976	3.931	3.688	2222	754	203.6	1.828	61.4	72.2
	460.1	460.5	459.5	4.267	4.215	3.954	2384	735	212.8	1.862	58.3	72.2
	460.1	460.5	459.5	4.563	4.504	4.225	2539	713	219.7	1.866	54.8	71.9
	460.1	460.5	459.4	4.865	4.788	4.497	2685	689	225.7	1.852	51.5	71.4
	460.1	460.5	459.4	5.156	5.072	4.756	2818	664	229.8	1.816	48.1	70.8
	460.1	460.5	459.4	5.443	5.351	5.017	2937	635	231.9	1.753	44.5	69.9
BDT OZ-FT	460.1	460.6	459.4	5.499	5.403	5.070	2960	630	232.9	1.746	44.0	69.8
	460.1	460.5	459.3	5.719	5.618	5.269	3044	605	232.3	1.673	41.0	69.0
	460.1	460.5	459.4	5.974	5.868	5.503	3131	572	229.7	1.564	37.3	68.0
	460.0	460.5	459.5	6.218	6.104	5.729	3213	538	226.0	1.446	33.6	67.0
	460.0	460.5	459.5	6.454	6.330	5.942	3280	500	220.1	1.309	29.8	66.0
	460.0	460.5	459.5	6.671	6.540	6.142	3335	460	214.0	1.172	26.2	64.9
	460.1	460.5	459.4	6.875	6.733	6.326	3378	416	208.6	1.032	22.8	63.8
	460.1	460.6	459.4	7.061	6.911	6.498	3412	369	201.1	0.883	19.3	62.8
	460.1	460.5	459.4	7.230	7.073	6.655	3435	320	192.6	0.734	15.9	61.7
	460.0	460.6	459.4	7.381	7.217	6.795	3452	267	187.3	0.595	12.8	60.8
	460.0	460.6	459.4	7.515	7.343	6.923	3463	211	180.6	0.453	9.8	59.9
	460.0	460.6	459.4	7.647	7.469	7.044	3478	151	173.5	0.312	6.7	59.1
	460.1	460.5	459.5	7.762	7.574	7.156	3482	88	170.9	0.179	3.8	58.3
	460.0	460.5	459.5	7.873	7.677	7.264	3491	22	166.4	0.043	0.9	57.6

DRAWING NO.	PAGE 3 of 4	REV.
31TR64		-

Performance Data



Wiring Diagram



Dayton[®]**CONDENSER FAN MOTOR**Part
No

31TR64

[BAR CODE]

HP: 1.0**PH:** 3**VOLTS:** 208-230/460**HZ:** 60**AMPS:** 4.8/2.4**FR:** 56Z**RPM:** 850**INS CL:** F**DUTY:** CONT A. O.**AMB:** 70 ° C**SF:** 1.0**SFA:****KVA CODE:** H**ENCL:** OAO**THERMALLY PROTECTED:** AUTO

MFG. NO. [] [] PROT. CODE : [06090] AVG. F.L. EFF. [] []

MTR REF: P63SYABY-1274

USABLE FOR 208 V AT 1.0 SF



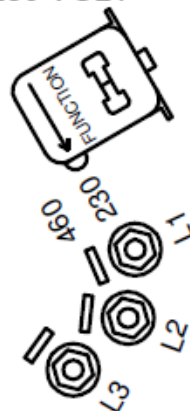
E37403



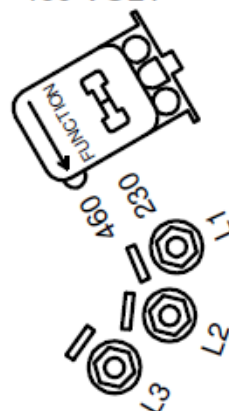
258501

Disconnect Power Before Making Any
Electrical Connections or Changes

230 VOLT



460 VOLT

TO REVERSE ROTATION INTERCHANGE
ANY TWO LINE LEADS.

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

[Made in Mexico]