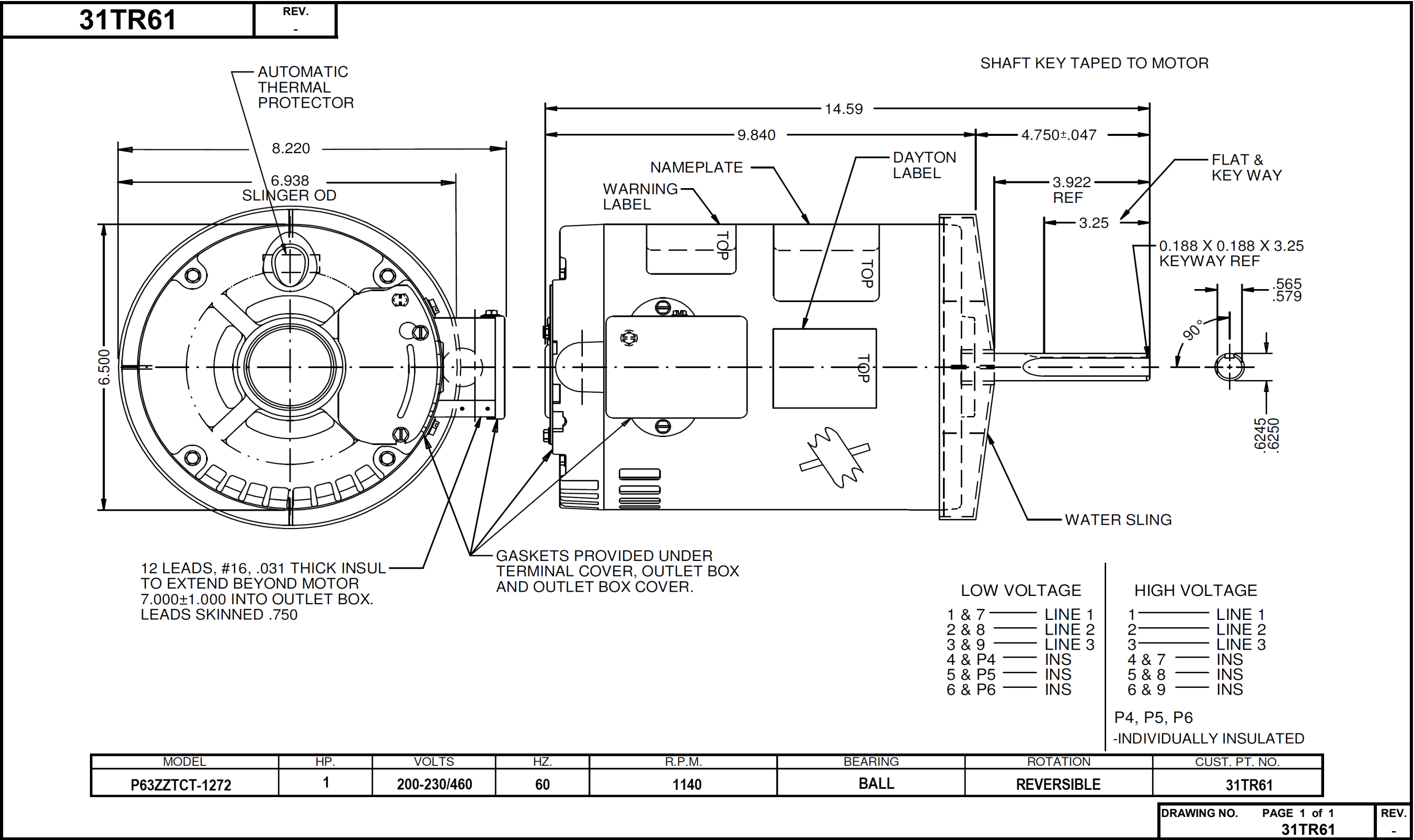


Dimensional Drawing



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

Performance Data



31TR61		REV. -				
THREE PHASE MOTOR PERFORMANCE						
HP:	1					
Poles:	6					
Volts:	200-230/460	200	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	81.5	80.4	79.9		
	Service Factor	81.5	80.4	79.9		
	3/4	79.9	77.5	76.9		
	1/2	75.1	71.8	71.1		
	1/4	62.3	57.7	57.3		
Amps:	Full Load	69.5	79.6	154.7		
	Service Factor	69.5	79.6	154.7		
	3/4	69.1	79.4	154.6		
	1/2	68.9	79.3	154.4		
	1/4	68.8	79.2	154.3		
	No Load					
	Locked Rotor	27.0	32.1	16.0		
NEMA Code Letter:						
NEMA Design Letter:						
Full Load RPM:		916	927	934		
NEMA Nominal Efficiency (%):						
Guaranteed Efficiency (%):						
Max KVAR:						
Ambient (°C):						
Altitude (FASL):						
Full Load Torque	Lb.Ft. / Oz.Ft. (Circle One)	1161.00	1171.00	1173.00		
Torques: % Full-Load	Breakdown	779.00	787.00	804.00		
	Locked Rotor					
	Pull-Up	217.90	307.80	309.30		
	Service Factor	1161.00	1171.00	1173.00		
Temperature Rise:	Full Load					
	Service Factor					
Winding Material:		CU				
Notes:						

DRAWING NO. PAGE 1 of 1

31TR61

REV.
-

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

Performance Data



31TR61

REV.

-

Dayton Manufacturing Company

Motor Description

Model: P063TCT1272
Motor ID: 1 OF 1
Poles: 6
Volts: 200-230/460
Frequency: 60
HP: 1
Speed: 1140
Phase: 3
Protector:

Test Conditions

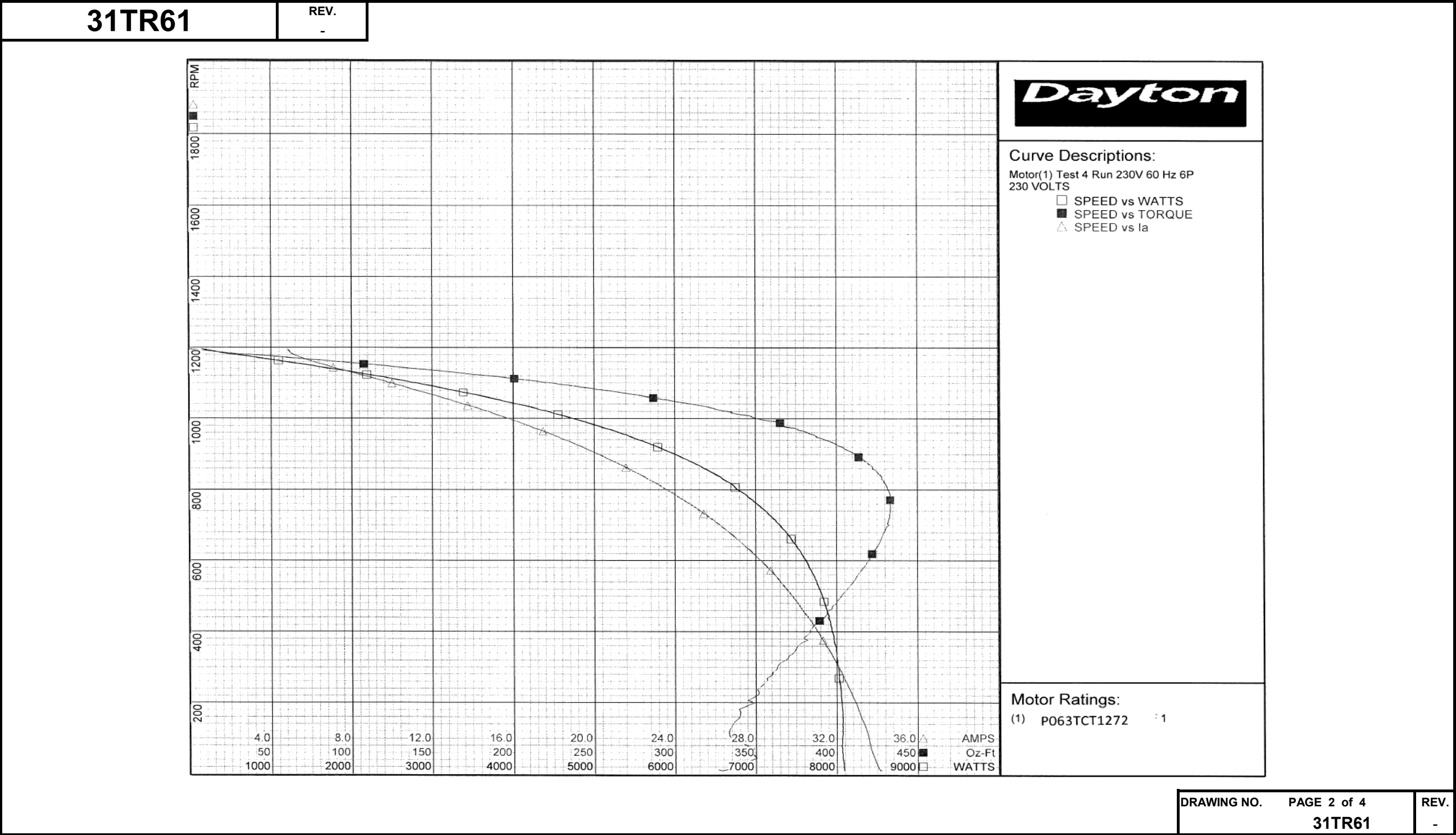
Test Type: Run
Test Number: 4
Poles: 6
Volts: 230
Hz: 60
Rotation:
Special Cond: 230 VOLTS
Speed Conn:
TestBoard: Amtps Performance Fixture #1
Run Cap: 0
Start Cap: 0µfd
Environment:
Tested: 2/1/2007 6:40:00 PM
Tested By: Taylor, Melvin
Gear Ratio: 1:1
Bearing Friction: 0.16 Oz-Ft
Windage Torque: -1.12 Oz-Ft

Special Points	Vab (V)	Vbc (V)	Vca (V)	Ia (A)	Ib (A)	Ic (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
1 HP 73.7 OZ-FT	229.1	230.2	230.7	4.82	3.73	5.34	135	1196	0.0	0.000	0.0	7.3
	229.1	230.2	230.7	4.97	3.72	5.34	375	1186	20.0	0.282	56.0	20.2
	229.2	230.1	230.7	5.37	3.88	5.66	746	1175	53.5	0.748	74.8	37.7
	229.2	230.1	230.7	5.70	4.08	5.95	955	1167	72.0	1.000	78.1	45.7
	229.2	230.1	230.7	5.73	4.10	5.98	974	1167	73.7	1.024	78.4	46.4
	229.2	230.1	230.7	5.94	4.25	6.18	1096	1163	84.6	1.171	79.8	50.4
	229.2	230.1	230.7	6.63	4.79	6.78	1437	1151	113.7	1.559	80.9	59.5
	229.3	230.0	230.7	7.32	5.37	7.41	1754	1140	140.2	1.902	80.9	65.7
	229.3	230.0	230.7	7.43	5.47	7.51	1802	1138	143.9	1.950	80.7	66.5
	229.3	230.0	230.6	8.38	6.29	8.42	2192	1123	175.4	2.345	79.8	71.5
1140 RPM BDT OZ-FT	229.4	230.0	230.6	9.40	7.18	9.40	2587	1108	207.0	2.732	78.8	75.0
	229.4	230.0	230.7	10.45	8.15	10.44	2979	1092	235.7	3.063	76.7	77.3
	229.3	230.1	230.6	11.59	9.20	11.59	3386	1073	266.4	3.403	75.0	78.7
	229.4	230.3	230.4	12.79	10.26	12.76	3792	1053	292.5	3.667	72.1	79.8
	229.6	230.2	230.2	14.39	11.71	14.32	4311	1025	325.8	3.977	68.8	80.3
	229.6	230.2	230.2	15.14	12.42	15.08	4555	1011	340.5	4.096	67.1	80.4
	229.6	230.2	230.2	16.60	13.79	16.57	4992	982	365.0	4.268	63.8	80.1
	229.6	230.2	230.2	17.98	15.11	18.00	5402	954	386.2	4.385	60.5	79.6
	229.7	230.1	230.2	19.40	16.45	19.45	5790	920	403.6	4.420	56.9	78.8
	229.7	230.0	230.3	20.77	17.78	20.87	6149	885	416.7	4.388	53.2	77.9
	229.5	230.1	230.3	22.10	19.04	22.28	6473	847	425.6	4.291	49.4	76.8
	229.5	230.1	230.3	23.40	20.27	23.61	6748	806	431.3	4.140	45.8	75.5
	229.5	230.2	230.3	24.19	21.03	24.44	6912	779	433.4	4.019	43.4	74.7
	229.5	230.1	230.4	24.67	21.49	24.93	7006	762	433.2	3.930	41.8	74.2
	229.5	230.2	230.3	25.90	22.66	26.22	7244	714	432.1	3.673	37.8	73.0
	229.5	230.3	230.3	27.06	23.78	27.42	7439	661	427.5	3.365	33.7	71.6
	229.5	230.2	230.3	28.12	24.80	28.50	7597	608	420.7	3.044	29.9	70.3
	229.6	230.0	230.4	29.12	25.82	29.55	7736	548	411.5	2.684	25.9	69.0
	229.6	229.9	230.5	30.01	26.75	30.51	7843	485	400.1	2.310	22.0	67.7
	229.6	229.9	230.5	30.87	27.60	31.42	7925	417	385.8	1.917	18.0	66.4
	229.6	229.8	230.6	31.65	28.38	32.23	7992	346	374.4	1.541	14.4	65.2
	229.6	229.9	230.6	32.36	29.11	32.98	8026	269	356.7	1.140	10.6	64.0
	229.6	229.9	230.5	33.00	29.77	33.63	8060	189	343.8	0.775	7.2	63.0
	229.6	229.9	230.6	33.55	30.35	34.26	8066	104	333.8	0.414	3.8	61.9
	229.6	229.9	230.5	34.03	30.81	34.77	8083	18	336.1	0.072	0.7	61.1

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

Performance Data



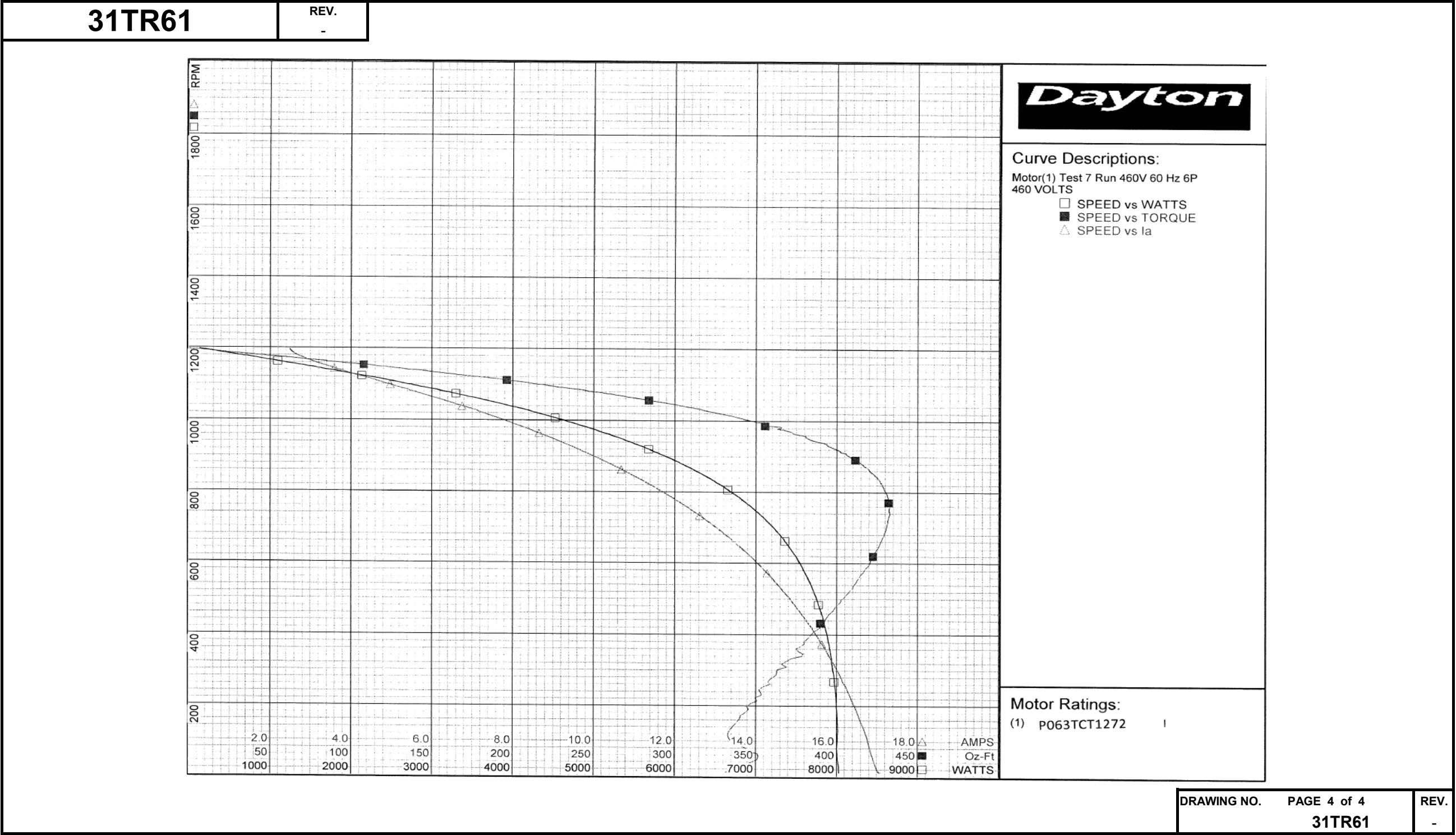
Performance Data



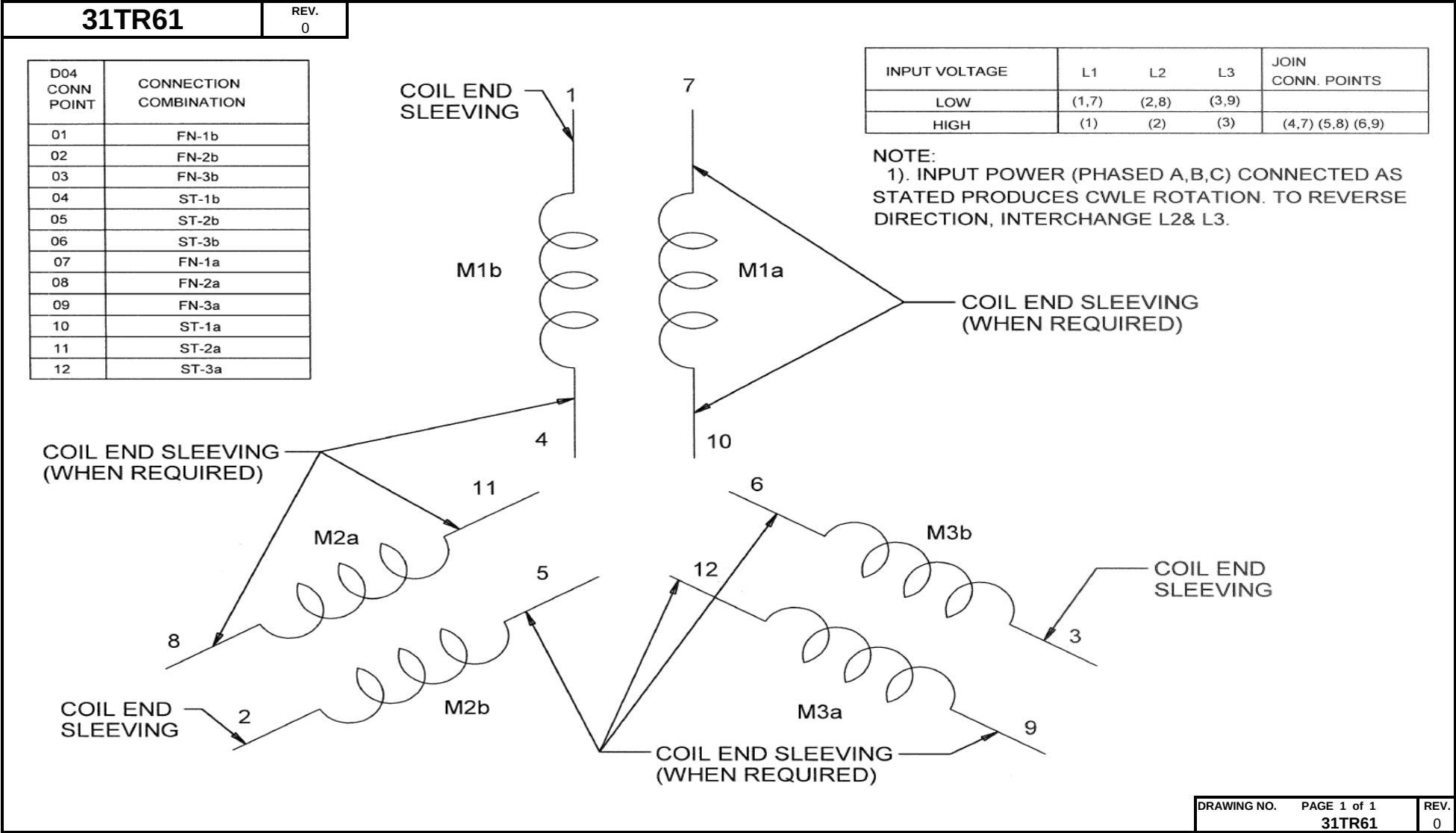
31TR61		REV. -											
Dayton Manufacturing Company													
Motor Description				Test Conditions									
Model: P063TCT1272		Test Type: Run		Run Cap: 0									
Motor ID: 1 OF 1		Test Number: 7		Start Cap: 0µfd									
Poles: 6		Poles: 6		Environment:									
Volts: 200-230/460		Volts: 460		Tested: 2/1/2007 7:15:22 PM									
Frequency: 60		Hz: 60		Tested By: Taylor, Melvin									
HP: 1		Rotation:		Gear Ratio: 1:1									
Speed: 1140		Special Cond: 460 VOLTS		Bearing Friction: 0.16 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 (%)	
	464.9	457.5	457.6	2.486	1.844	2.502	129	1196	0.0	0.000	0.0	7.1	
	465.1	457.3	457.6	2.565	1.869	2.502	416	1186	24.9	0.352	63.1	22.6	
	465.1	457.3	457.6	2.777	1.993	2.644	767	1174	56.3	0.787	76.6	39.0	
1 HP	465.2	457.2	457.7	2.912	2.095	2.747	941	1167	72.0	1.000	79.3	45.7	
73.7 OZ-FT	465.1	457.2	457.6	2.929	2.109	2.761	962	1166	73.7	1.023	79.3	46.5	
	465.2	457.2	457.7	3.045	2.204	2.855	1094	1162	85.0	1.176	80.2	50.8	
	465.3	457.1	457.6	3.381	2.490	3.133	1426	1151	113.8	1.558	81.6	59.6	
1140 RPM	465.2	457.2	457.6	3.647	2.735	3.360	1675	1140	134.3	1.823	81.2	64.7	
	465.2	457.2	457.6	3.745	2.827	3.445	1762	1138	141.7	1.919	81.3	66.2	
	465.2	457.2	457.6	4.189	3.240	3.854	2135	1123	171.9	2.297	80.2	71.2	
	465.3	457.1	457.6	4.662	3.675	4.305	2507	1108	201.9	2.663	79.3	74.7	
	465.3	457.1	457.6	5.176	4.156	4.808	2896	1091	230.7	2.995	77.2	77.1	
	465.3	457.1	457.6	5.737	4.677	5.363	3297	1073	261.2	3.337	75.5	78.7	
	465.3	457.1	457.6	6.339	5.215	5.977	3708	1053	288.9	3.620	72.8	79.6	
	465.3	457.1	457.6	7.034	5.837	6.673	4153	1029	317.7	3.891	69.9	80.0	
	465.4	457.2	457.4	7.611	6.371	7.258	4524	1007	341.0	4.087	67.4	80.2	
	465.5	457.1	457.4	8.253	6.977	7.913	4917	981	365.9	4.273	64.8	80.0	
	465.4	457.1	457.4	8.932	7.616	8.606	5310	951	382.0	4.327	60.8	79.5	
	465.3	457.3	457.4	9.605	8.246	9.299	5679	920	400.4	4.385	57.6	78.8	
	465.4	457.0	457.6	10.297	8.916	9.997	6041	885	414.1	4.361	53.9	77.9	
	465.4	456.7	457.8	10.946	9.544	10.670	6360	847	423.6	4.270	50.1	76.9	
	465.5	456.6	457.9	11.597	10.169	11.335	6654	806	429.6	4.122	46.2	75.7	
BDT OZ-FT	465.4	456.6	457.9	12.233	10.771	11.994	6921	763	432.9	3.930	42.4	74.5	
	465.4	456.6	457.9	12.233	10.771	11.994	6921	763	432.9	3.930	42.4	74.5	
	465.4	456.6	458.0	12.844	11.354	12.626	7154	714	431.7	3.669	38.3	73.2	
	465.3	456.7	458.0	13.431	11.912	13.239	7358	662	427.3	3.367	34.1	71.8	
	465.3	456.6	458.0	13.969	12.428	13.792	7523	607	420.8	3.042	30.2	70.5	
	465.4	456.6	458.0	14.473	12.915	14.318	7663	549	412.1	2.694	26.2	69.2	
	465.2	456.7	458.0	14.948	13.360	14.818	7774	485	400.8	2.313	22.2	67.9	
	465.4	456.6	458.0	15.382	13.787	15.256	7858	419	389.7	1.943	18.4	66.6	
	465.3	456.7	458.0	15.778	14.170	15.684	7926	346	379.3	1.562	14.7	65.4	
	465.5	456.5	458.0	16.147	14.534	16.062	7970	268	357.5	1.140	10.7	64.2	
	465.5	456.6	457.9	16.481	14.877	16.394	8000	189	345.5	0.779	7.3	63.1	
	465.5	456.6	457.9	16.761	15.158	16.714	8009	104	333.9	0.414	3.9	62.0	
	465.5	456.6	457.9	16.996	15.398	16.977	8023	19	339.7	0.078	0.7	61.2	

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31TR61		-

Performance Data



Wiring Diagram



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

31TR61

[BAR CODE]**HP:** 1**PH:** 3**VOLTS:** 200-230/460**HZ:** 60**AMPS:** 6.0/3.0**FR:** 56Z**RPM:** 1140**INS CL:** B**DUTY:** CONT.A.O.**AMB:** 60 °C**SF:** 1.0**SFA:****KVA CODE:** G**ENCL:** OPEN**THERMALLY PROTECTED:** AUTO

MFG. NO. [] [] PROT. CODE : [06092]

AVG. F.L.
EFF.**MTR REF:** P63ZZTCT-1272**USABLE FOR 208 V AT 1.0 SF****Disconnect Power Before Making Any
Electrical Conections or Changes****CONNECTIONS****LOW VOLTAGE**

1 & 7	——	LINE 1
2 & 8	——	LINE 2
3 & 9	——	LINE 3
4 & P4	——	INS
5 & P5	——	INS
6 & P6	——	INS

HIGH VOLTAGE

1	——	LINE 1
2	——	LINE 2
3	——	LINE 3
4 & 7	——	INS
5 & 8	——	INS
6 & 9	——	INS

P4, P5, P6
- INSULATE
SEPARATELY**Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA**[Made in Mexico]