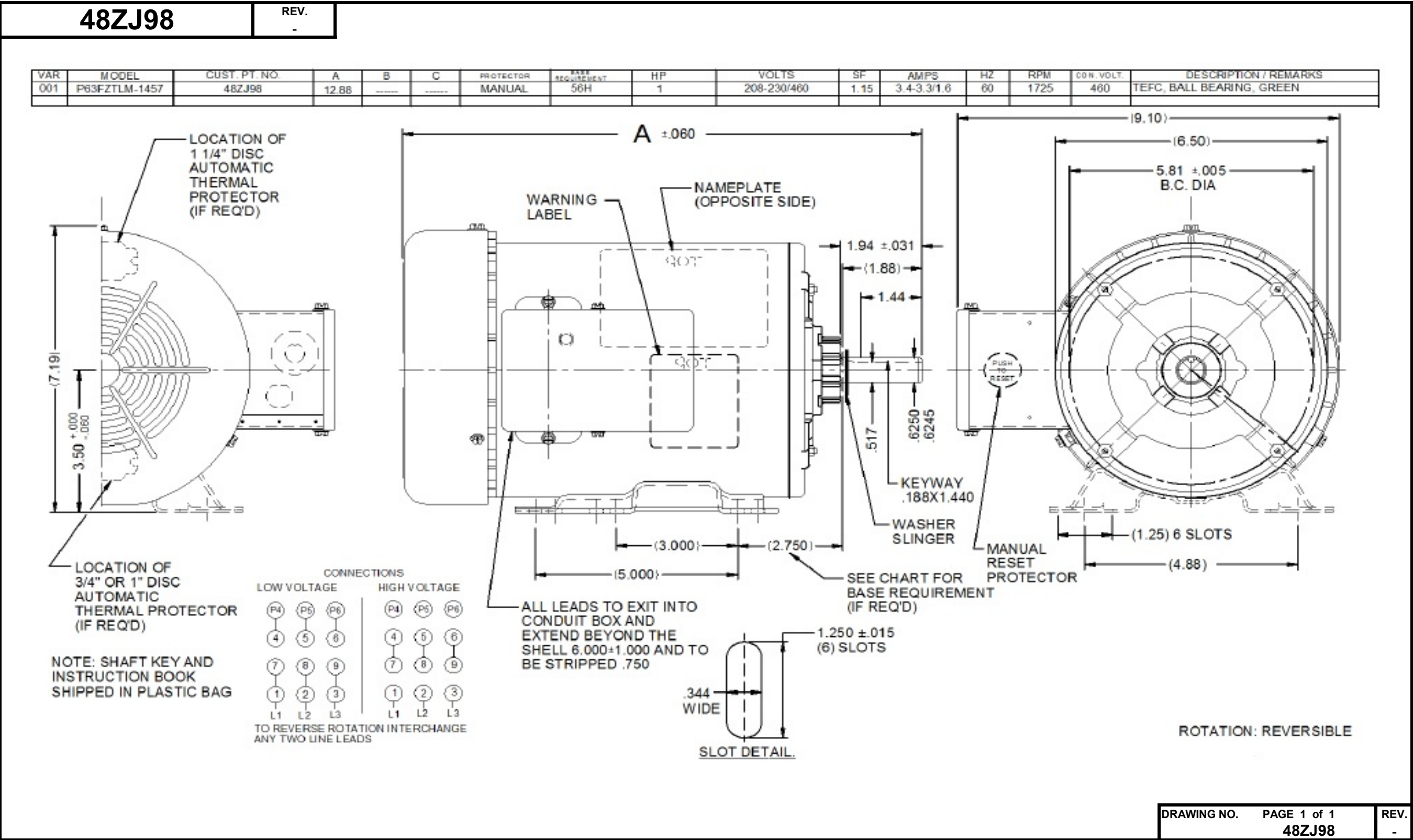


Dimensional Drawing



Performance Data



48ZJ98		REV. -				
THREE PHASE MOTOR PERFORMANCE						
HP:	1					
Poles:	4					
Volts:	208-230/460	460	230	208		
HZ:	60	60	60	60		
Service Factor:	1.15					
Efficiency (%):	Full Load	82.3	82.6	82.5		
	Service Factor	82.9	83.4	83.1		
	3/4	80.2	80.8	81.4		
	1/2	75.7	76.6	78.8		
	1/4	63.5	63.5	66.5		
Power Factor (%):	Full Load	75.7	75.4	80.5		
	Service Factor	78.9	78.6	83.1		
	3/4	68.0	67.8	74.0		
	1/2	55.2	54.7	61.9		
	1/4	37.8	37.0	43.1		
Amps:	Full Load	1.5	3.0	3.1		
	Service Factor	1.6	3.3	3.4		
	3/4	1.3	2.6	2.6		
	1/2	1.1	2.2	2.1		
	1/4	1.0	2.0	1.8		
	No Load	0.92	1.83	1.63		
	Locked Rotor	15.5	31.0	27.2		
NEMA Code Letter:	N					
NEMA Design Letter:	B					
Full Load RPM:	1754	1755	1744			
NEMA Nominal Efficiency (%):	85.5					
Guaranteed Efficiency (%):						
Max KVAR:						
Ambient (°C):	40					
Altitude (FASL):						
Full Load Torque	Lb.Ft. / Oz.Ft. (Circle One)	47.90	47.90	48.20		
Torques: % Full-Load	Breakdown	278.80	277.40	222.70		
	Locked Rotor	221.00	215.10	173.70		
	Pull-Up	202.00	196.90	159.80		
	Service Factor	55.30	55.20	55.60		
Temperature Rise:	Full Load	28.10	29.70	28.10		
	Service Factor	31.60	32.10	32.70		
Winding Material:		Cu				
Notes:						

DRAWING NO. PAGE 1 of 1
48ZJ98

REV.
-

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

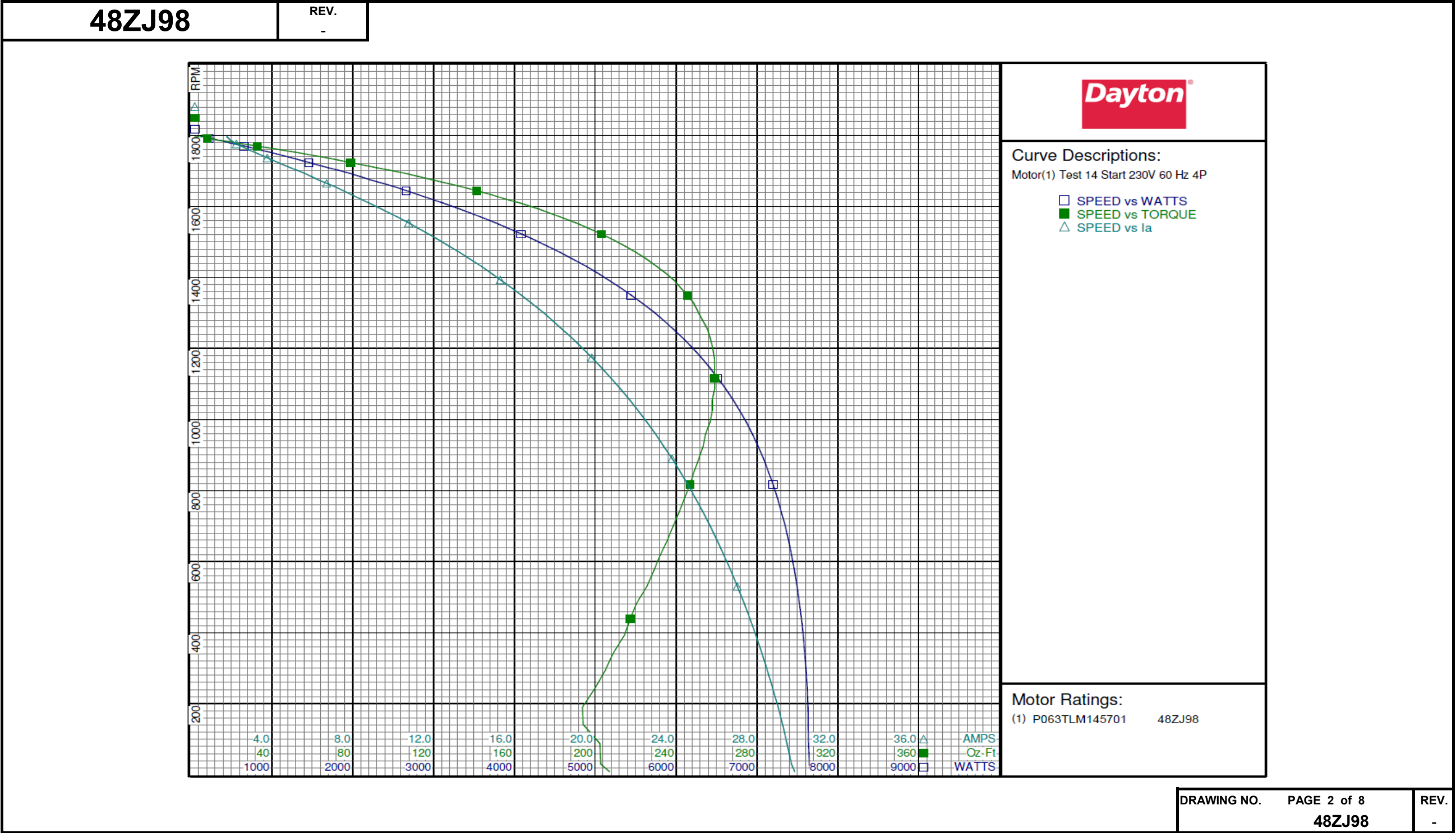
Performance Data



48ZJ98			REV. -										
Dayton Manufacturing Company													
Motor Description				Test Conditions									
Model:		P063TLM145701 48ZJ98		Test Type:		Start		Run Cap:		0			
Motor ID:		1 of 1		Test Number:		14		Start Cap:		0µfd			
Poles:		4		Poles:		4		Environment:		23.7 Deg C 49 % RH 960 hPa			
Volts:		208-230/460		Volts:		230		Tested:		3/23/2016 8:04:40 AM			
Frequency:		60		Hz:		60		Tested By:		Navarro, Susana			
HP:		1		Rotation:				Gear Ratio:		1:1			
Speed:		1745		Special Cond:				Bearing Friction:		-0.41 Oz-Ft			
Phase:		3		Speed Conn:				Windage Torque:		-1.80 Oz-Ft			
Protector:		MWJ66KB		TestBoard:		CMD InLine Three Phase #1 Fixture #1							
Special Points		Vab(V)	Vbc(V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
		230.5	228.8	230.7	29.70	28.69	29.50	7646	30	202.7	0.072	0.7	65.5
PUT	OZ-FT	230.5	228.8	230.7	29.05	28.04	28.82	7629	190	193.6	0.437	4.3	66.9
		230.5	228.8	230.7	29.05	28.04	28.82	7629	190	193.6	0.437	4.3	66.9
		230.5	228.8	230.7	28.25	27.26	28.02	7590	340	208.7	0.845	8.3	68.4
		230.5	228.8	230.7	27.37	26.41	27.15	7525	482	220.3	1.264	12.5	70.0
		230.5	228.8	230.7	26.37	25.45	26.17	7427	617	232.0	1.705	17.1	71.7
		230.5	228.8	230.7	25.32	24.43	25.13	7300	740	241.5	2.127	21.7	73.4
		230.5	228.8	230.7	24.22	23.38	24.06	7144	851	248.7	2.519	26.3	75.1
		230.5	228.8	230.7	23.01	22.22	22.86	6947	957	254.4	2.898	31.1	76.8
		230.5	228.8	230.6	21.70	20.96	21.57	6704	1055	257.9	3.238	36.0	78.6
		230.5	228.8	230.6	20.31	19.63	20.20	6416	1145	259.0	3.532	41.1	80.3
		230.6	228.8	230.6	18.87	18.25	18.78	6089	1228	256.9	3.754	46.0	82.0
		230.5	228.9	230.6	17.46	16.89	17.39	5738	1300	251.1	3.885	50.5	83.5
		230.6	228.9	230.6	15.92	15.42	15.87	5330	1368	242.7	3.952	55.3	85.0
		230.5	229.0	230.5	14.36	13.91	14.33	4887	1431	230.3	3.924	59.9	86.4
		230.5	229.0	230.5	12.76	12.38	12.75	4405	1488	214.7	3.803	64.4	87.6
		230.5	229.0	230.5	11.26	10.93	11.26	3928	1538	196.9	3.604	68.4	88.4
		230.5	229.1	230.4	9.82	9.55	9.83	3455	1581	177.3	3.337	72.0	89.1
		230.4	229.1	230.4	8.43	8.22	8.47	2980	1620	156.1	3.009	75.3	89.4
		230.4	229.2	230.4	7.16	7.00	7.20	2528	1654	134.3	2.646	78.1	89.2
		230.4	229.2	230.4	5.94	5.83	6.00	2086	1684	112.3	2.251	80.5	88.4
		230.4	229.4	230.3	4.91	4.84	4.98	1695	1709	91.7	1.866	82.1	86.6
		230.5	229.4	230.1	4.08	4.05	4.17	1370	1729	74.0	1.523	82.9	83.9
		230.6	229.4	230.1	3.33	3.33	3.42	1059	1747	56.4	1.174	82.7	79.1
		230.8	229.3	229.9	2.77	2.78	2.86	800	1762	41.6	0.872	81.3	71.7
		230.7	229.2	230.2	2.35	2.40	2.45	591	1773	29.1	0.615	77.6	61.8
		230.8	229.1	230.1	2.07	2.13	2.17	424	1782	19.1	0.406	71.4	50.0
		230.6	229.1	230.3	1.90	1.97	2.01	294	1788	11.7	0.250	63.5	37.6
		230.5	229.2	230.3	1.82	1.89	1.93	209	1793	6.6	0.141	50.2	27.9
		230.5	229.2	230.3	1.77	1.85	1.87	136	1797	2.7	0.058	32.0	18.6
		230.4	229.3	230.2	1.76	1.84	1.87	125	1797	2.1	0.045	27.2	17.2
DRAWING NO.										PAGE 1 of 8		REV.	
48ZJ98													

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

Performance Data



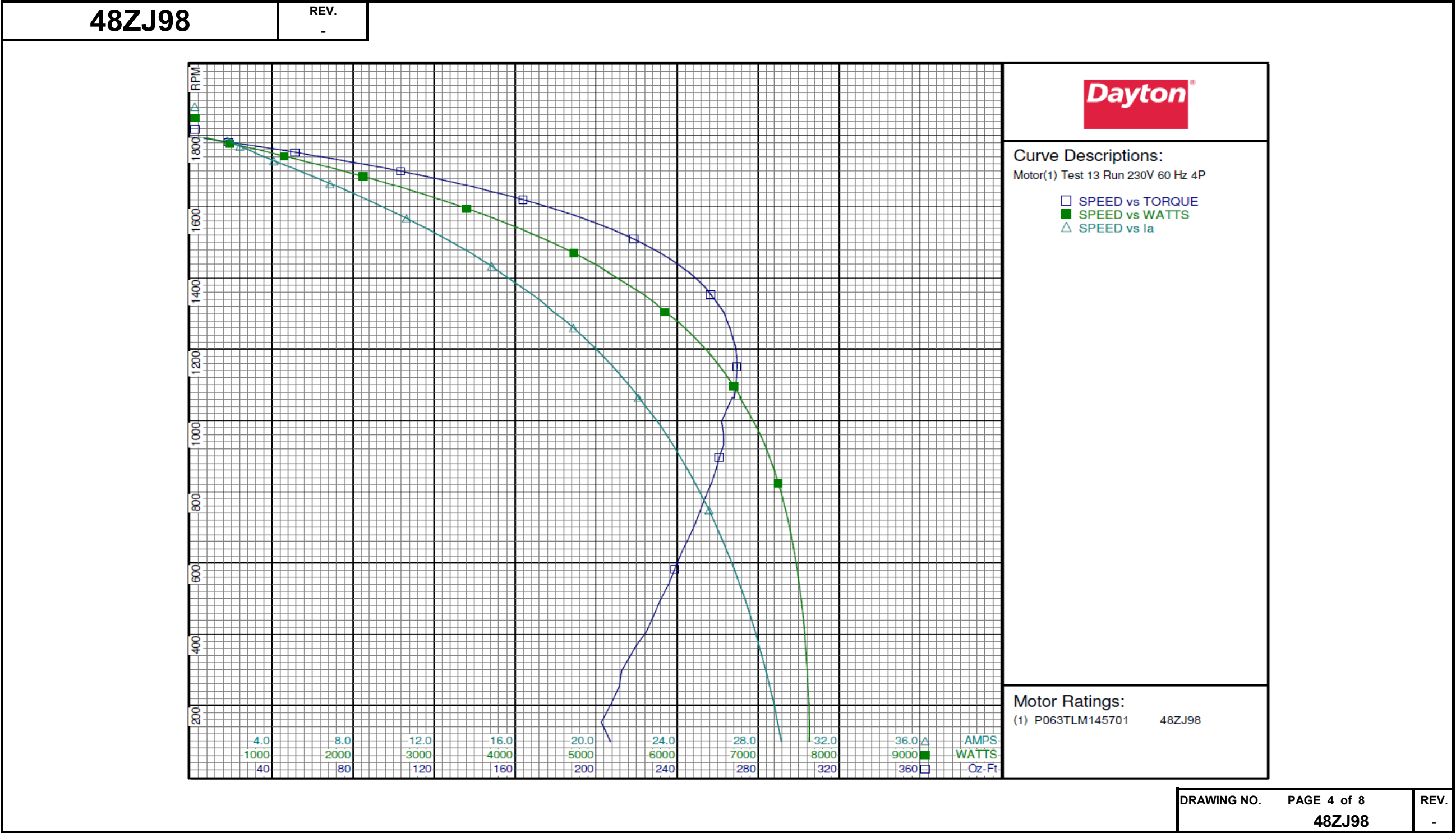
Performance Data



48ZJ98			REV. -									
Dayton Manufacturing Company												
Motor Description				Test Conditions								
Model:	P063TLM145701	48ZJ98	Test Type:	Run	Run Cap:	0						
Motor ID:	1 of 1		Test Number:	13	Start Cap:	0µfd						
Poles:	4		Poles:	4	Environment:	23.7 Deg C 49 % RH 960 hPa						
Volts:	208-230/460		Volts:	230	Tested:	3/23/2016 8:02:40 AM						
Frequency:	60		Hz:	60	Tested By:	Navarro, Susana						
HP:	1		Rotation:		Gear Ratio:	1:1						
Speed:	1745		Special Cond:		Bearing Friction:	-0.35 Oz-Ft						
Phase:	3		Speed Conn:		Windage Torque:	-1.65 Oz-Ft						
Protector:	MWJ66KB		TestBoard:	CMD InLine Three Phase #1 Fixture #1								
Special Points	Vab (V)	Vbc (V)	Vca (V)	Ia (A)	Ib (A)	Ic (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.4	229.3	230.3	1.76	1.85	1.88	96	1795	0.0	0.000	0.0	13.2
	230.3	229.3	230.4	1.83	1.92	1.95	214	1792	6.8	0.145	50.6	28.3
	230.1	229.4	230.5	1.95	2.04	2.07	325	1786	13.6	0.289	66.5	40.4
	229.9	229.3	230.8	2.12	2.21	2.25	453	1779	21.9	0.464	76.3	51.9
	230.1	229.1	230.8	2.42	2.49	2.54	630	1770	32.2	0.679	80.4	63.7
	230.4	228.9	230.7	2.92	2.98	3.04	880	1758	46.6	0.975	82.7	74.1
1 HP	230.4	228.9	230.7	2.97	3.03	3.08	901	1756	47.8	1.000	82.8	74.7
48.7 OZ-FT	230.4	228.9	230.7	3.00	3.06	3.12	916	1756	48.7	1.018	82.9	75.1
1.15 HP	230.5	228.8	230.8	3.25	3.31	3.37	1027	1749	55.2	1.150	83.5	77.9
56 OZ-FT	230.5	228.8	230.8	3.28	3.33	3.40	1040	1748	56.0	1.165	83.6	78.2
	230.5	228.7	230.8	3.54	3.57	3.65	1152	1742	62.4	1.294	83.8	80.6
	230.6	228.7	230.7	4.40	4.40	4.49	1501	1722	82.6	1.692	84.1	85.1
	230.6	228.8	230.6	5.38	5.36	5.46	1883	1700	103.4	2.093	82.9	87.5
	230.6	228.9	230.6	6.53	6.45	6.58	2309	1673	125.7	2.504	80.9	88.9
	230.5	228.9	230.6	7.80	7.67	7.83	2764	1643	148.3	2.899	78.3	89.3
	230.6	228.9	230.6	9.17	9.00	9.20	3244	1607	171.5	3.281	75.4	89.3
	230.6	228.9	230.6	10.64	10.41	10.63	3737	1567	193.4	3.609	72.0	88.8
	230.6	228.9	230.6	12.20	11.90	12.15	4234	1521	213.9	3.874	68.3	88.0
	230.6	228.9	230.6	13.81	13.44	13.73	4727	1470	231.5	4.053	64.0	86.9
	230.6	228.8	230.6	15.30	14.87	15.20	5160	1413	246.3	4.143	59.9	85.6
	230.6	228.8	230.6	16.87	16.37	16.74	5587	1353	256.6	4.134	55.2	84.2
	230.6	228.8	230.6	18.40	17.83	18.25	5975	1284	264.4	4.040	50.4	82.6
	230.6	228.8	230.6	19.88	19.26	19.72	6325	1206	268.9	3.862	45.5	80.9
BDT OZ-FT	230.6	228.8	230.6	20.82	20.15	20.64	6526	1152	269.5	3.695	42.2	79.8
	230.6	228.8	230.6	21.26	20.58	21.08	6617	1123	269.3	3.601	40.6	79.2
	230.6	228.8	230.6	22.09	21.35	21.89	6773	1064	267.2	3.384	37.3	78.1
	230.5	228.8	230.6	23.80	23.01	23.59	7084	931	262.9	2.912	30.7	75.8
	230.5	228.8	230.6	24.89	24.05	24.67	7248	824	256.9	2.520	25.9	74.2
	230.5	228.8	230.6	25.89	25.03	25.68	7380	708	248.8	2.096	21.2	72.6
	230.5	228.8	230.6	26.82	25.91	26.60	7481	583	238.8	1.657	16.5	71.0
	230.5	228.9	230.6	27.63	26.70	27.42	7556	448	228.1	1.218	12.0	69.6
	230.5	228.9	230.6	28.38	27.44	28.19	7604	297	212.6	0.751	7.4	68.2
	230.5	228.9	230.6	28.96	28.02	28.79	7631	152	202.6	0.367	3.6	67.0
DRAWING NO.										PAGE 3 of 8		REV.
48ZJ98										-		-

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

Performance Data



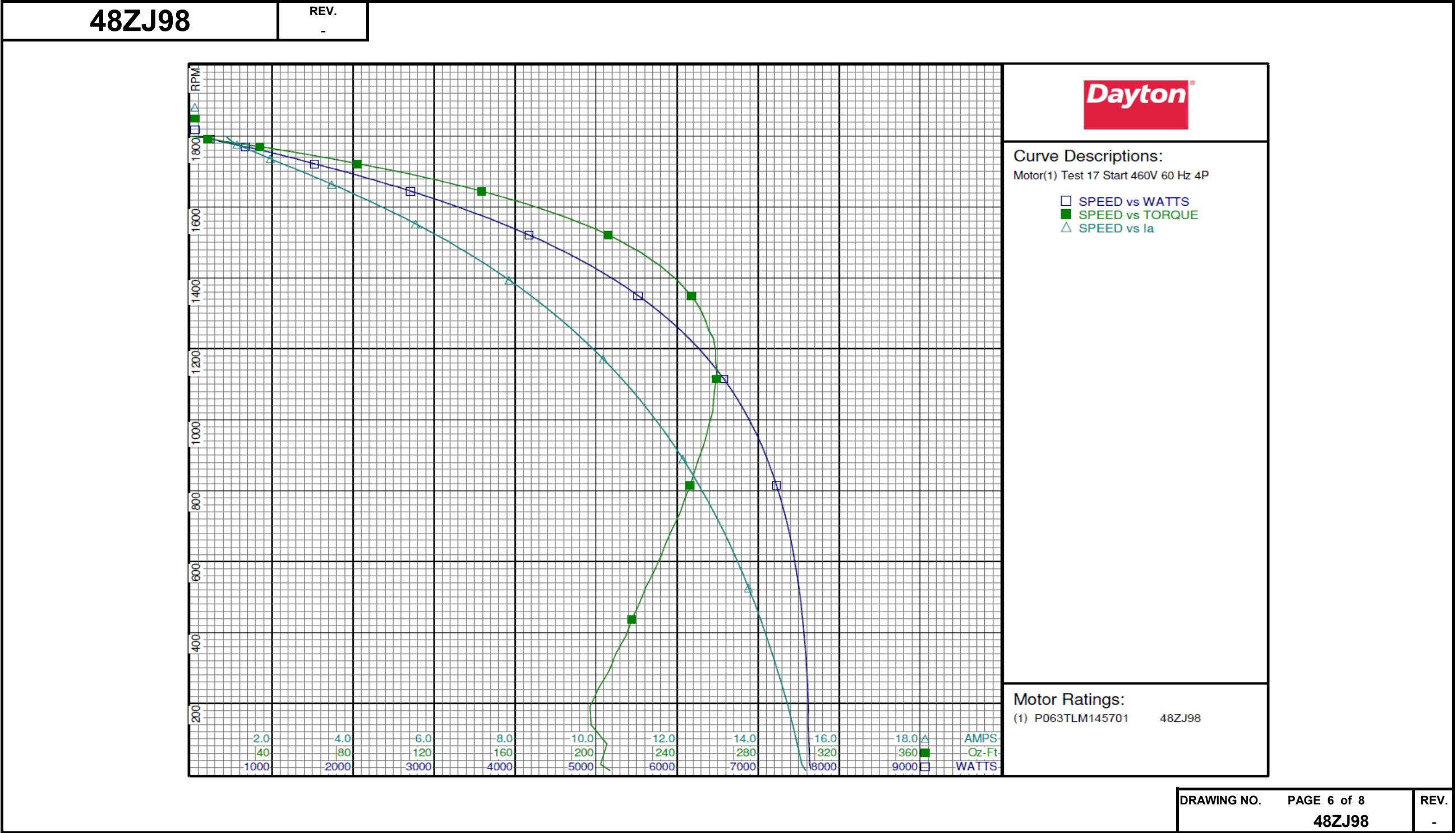
Performance Data



48ZJ98			REV. -										
Dayton Manufacturing Company													
Motor Description				Test Conditions									
Model:	P063TLM145701		48ZJ98	Test Type:	Start	Run Cap:	0						
Motor ID:	1 of 1			Test Number:	17	Start Cap:	0µfd						
Poles:	4			Poles:	4	Environment:	25.2 Deg C 28 % RH 978 hPa						
Volts:	208-230/460			Volts:	460	Tested:	3/21/2016 10:03:48 AM						
Frequency:	60			Hz:	60	Tested By:	Navarro, Susana						
HP:	1			Rotation:		Gear Ratio:	1:1						
Speed:	1745			Special Cond:		Bearing Friction:	-0.37 Oz-Ft						
Phase:	3			Speed Conn:		Windage Torque:	-1.56 Oz-Ft						
Protector:	MWJ66KB			TestBoard:	CMD InLine Three Phase #1 Fixture #1								
Special Points	Vab(V)	Vbc(V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	
	461.4	458.0	460.6	15.077	14.490	14.864	7636	28	202.2	0.068	0.7	64.7	
PUT OZ-FT	461.4	458.0	460.6	14.737	14.158	14.527	7620	191	197.1	0.449	4.4	66.1	
	461.4	458.0	460.6	14.340	13.773	14.133	7584	342	209.9	0.855	8.4	67.6	
	461.4	458.0	460.6	13.908	13.355	13.704	7527	484	221.5	1.275	12.6	69.2	
	461.4	458.0	460.6	13.429	12.895	13.233	7439	616	232.0	1.701	17.1	70.8	
	461.4	458.0	460.6	12.908	12.396	12.724	7324	738	241.5	2.123	21.6	72.5	
	461.4	458.0	460.6	12.344	11.856	12.170	7171	852	248.6	2.521	26.2	74.2	
	461.4	458.0	460.6	11.736	11.275	11.572	6981	958	254.5	2.903	31.0	76.0	
	461.4	458.0	460.6	11.082	10.650	10.932	6749	1056	258.0	3.244	35.9	77.8	
	461.4	458.1	460.5	10.398	9.997	10.261	6476	1144	259.3	3.533	40.7	79.5	
	461.4	458.1	460.5	9.644	9.281	9.518	6144	1229	257.9	3.773	45.8	81.3	
	461.4	458.1	460.5	8.915	8.585	8.804	5790	1302	252.2	3.911	50.4	82.9	
	461.4	458.2	460.5	8.144	7.847	8.047	5388	1370	243.6	3.974	55.0	84.4	
	461.4	458.2	460.4	7.335	7.076	7.249	4937	1434	231.7	3.954	59.7	85.8	
	461.3	458.2	460.5	6.566	6.342	6.497	4482	1488	216.9	3.841	63.9	87.0	
	461.3	458.2	460.5	5.773	5.590	5.719	3993	1538	199.3	3.650	68.2	88.0	
	461.3	458.3	460.5	5.016	4.866	4.976	3498	1582	179.0	3.372	71.9	88.6	
	461.3	458.3	460.4	4.318	4.198	4.290	3024	1621	157.9	3.046	75.1	88.9	
	461.2	458.4	460.4	3.665	3.574	3.648	2568	1655	136.1	2.682	77.9	88.8	
	461.2	458.5	460.3	3.063	3.000	3.056	2132	1684	114.9	2.302	80.6	88.0	
	461.2	458.6	460.2	2.518	2.480	2.520	1723	1709	93.4	1.900	82.2	86.3	
	461.4	458.4	460.3	2.076	2.061	2.086	1385	1730	74.9	1.542	83.1	83.8	
	461.5	458.6	459.9	1.717	1.718	1.730	1085	1748	57.6	1.199	82.5	79.1	
	461.6	458.5	459.9	1.418	1.431	1.439	821	1762	42.2	0.884	80.4	72.1	
	461.6	458.2	460.2	1.187	1.209	1.211	591	1773	29.6	0.625	78.9	61.7	
	462.0	458.1	459.9	1.058	1.084	1.085	432	1781	20.4	0.432	74.6	50.4	
	461.8	458.1	460.2	0.968	0.997	1.000	302	1789	12.9	0.274	67.8	38.3	
	461.7	458.0	460.2	0.922	0.953	0.960	215	1793	7.4	0.157	54.5	28.6	
	461.9	457.8	460.3	0.893	0.927	0.935	130	1797	2.8	0.060	34.3	17.8	
	461.6	458.1	460.3	0.883	0.920	0.927	98	1798	0.5	0.010	7.6	13.5	
	461.7	458.0	460.3	0.882	0.920	0.926	93	1799	0.1	0.002	1.5	12.9	
										DRAWING NO.	PAGE 5 of 8		REV.
										48ZJ98		-	

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

Performance Data



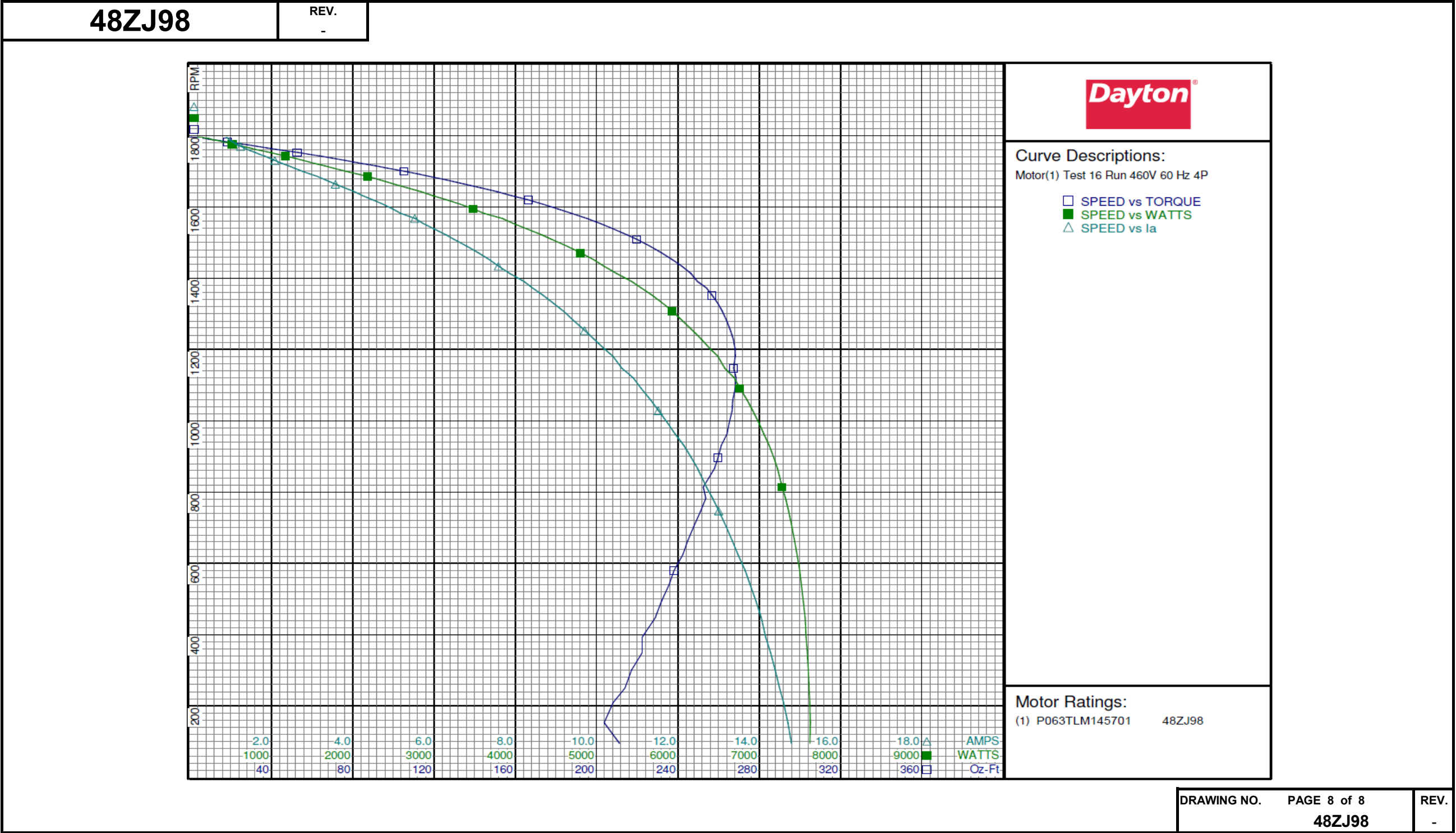
Performance Data



48ZJ98			REV. -									
Dayton Manufacturing Company												
Motor Description				Test Conditions								
Model:	P063TLM145701	48ZJ98	Test Type:	Run	Run Cap:	0						
Motor ID:	1 of 1		Test Number:	16	Start Cap:	0µfd						
Poles:	4		Poles:	4	Environment:	25.2 Deg C 28 % RH 978 hPa						
Volts:	208-230/460		Volts:	460	Tested:	3/21/2016 10:02:01 AM						
Frequency:	60		Hz:	60	Tested By:	Navarro, Susana						
HP:	1		Rotation:		Gear Ratio:	1:1						
Speed:	1745		Special Cond:		Bearing Friction:	-0.52 Oz-Ft						
Phase:	3		Speed Conn:		Windage Torque:	-1.93 Oz-Ft						
Protector:	MWJ66KB		TestBoard:	CMD InLine Three Phase #1	Fixture #1							
Special Points	Vab(V)	Vbc(V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	461.2	458.6	460.2	0.891	0.929	0.934	99	1796	0.0	0.000	0.0	13.6
	461.0	458.6	460.4	0.935	0.967	0.973	230	1792	7.6	0.162	52.4	30.1
	461.1	458.4	460.5	1.000	1.030	1.030	341	1786	14.4	0.305	66.9	41.9
	461.2	458.2	460.6	1.096	1.123	1.118	473	1779	22.3	0.472	74.4	53.4
	461.3	458.1	460.6	1.246	1.267	1.265	642	1770	32.9	0.692	80.4	64.0
	461.4	457.8	460.8	1.487	1.503	1.502	882	1757	47.1	0.986	83.4	74.0
1 HP	461.4	457.8	460.8	1.500	1.516	1.515	894	1757	47.8	1.000	83.4	74.3
48.7 OZ-FT	461.4	457.8	460.8	1.516	1.532	1.531	909	1756	48.7	1.018	83.6	74.7
1.15 HP	461.5	457.8	460.8	1.642	1.652	1.655	1019	1750	55.2	1.150	84.1	77.5
56 OZ-FT	461.5	457.8	460.7	1.659	1.668	1.671	1033	1749	56.0	1.166	84.2	77.8
	461.5	457.9	460.6	1.820	1.823	1.830	1173	1743	63.6	1.320	84.0	80.7
	461.7	457.7	460.6	2.251	2.240	2.256	1522	1722	83.9	1.719	84.3	84.9
	461.6	457.8	460.6	2.754	2.724	2.750	1911	1700	105.3	2.130	83.2	87.4
	461.6	457.9	460.5	3.328	3.272	3.312	2333	1675	126.0	2.513	80.4	88.6
	461.5	457.9	460.5	4.030	3.946	3.999	2834	1643	150.8	2.949	77.6	89.1
	461.5	458.0	460.5	4.740	4.624	4.694	3322	1607	173.5	3.319	74.5	89.0
	461.4	458.1	460.5	5.530	5.373	5.465	3839	1567	195.1	3.641	70.7	88.3
	461.5	458.1	460.5	6.302	6.113	6.219	4330	1521	215.1	3.895	67.1	87.5
	461.5	458.0	460.5	7.091	6.863	6.988	4803	1471	231.9	4.061	63.1	86.4
	461.4	458.0	460.6	7.868	7.605	7.754	5247	1413	246.5	4.144	58.9	85.1
	461.4	458.1	460.6	8.680	8.380	8.549	5682	1352	256.8	4.132	54.2	83.5
	461.4	458.0	460.6	9.433	9.095	9.286	6052	1281	263.9	4.024	49.6	81.9
	461.4	458.0	460.6	10.184	9.812	10.023	6395	1202	268.1	3.835	44.7	80.2
BDT OZ-FT	461.4	458.1	460.6	10.898	10.493	10.725	6690	1120	268.6	3.582	39.9	78.4
	461.4	458.1	460.6	10.898	10.493	10.725	6690	1120	268.6	3.582	39.9	78.4
	461.4	458.0	460.6	11.519	11.083	11.335	6919	1028	266.6	3.263	35.2	76.8
	461.4	458.1	460.5	12.142	11.673	11.947	7122	931	261.3	2.895	30.3	75.0
	461.5	458.0	460.5	12.699	12.209	12.497	7281	814	252.5	2.447	25.1	73.3
	461.4	458.0	460.6	13.181	12.673	12.981	7400	704	247.8	2.077	20.9	71.7
	461.4	458.1	460.6	13.651	13.126	13.451	7497	580	238.1	1.645	16.4	70.2
	461.4	458.1	460.6	14.051	13.511	13.854	7563	447	228.8	1.218	12.0	68.8
	461.4	458.1	460.5	14.392	13.842	14.200	7603	300	217.1	0.776	7.6	67.5
	461.4	458.1	460.5	14.705	14.152	14.525	7628	153	203.7	0.370	3.6	66.2
DRAWING NO.										PAGE 7 of 8		REV.
48ZJ98										-		

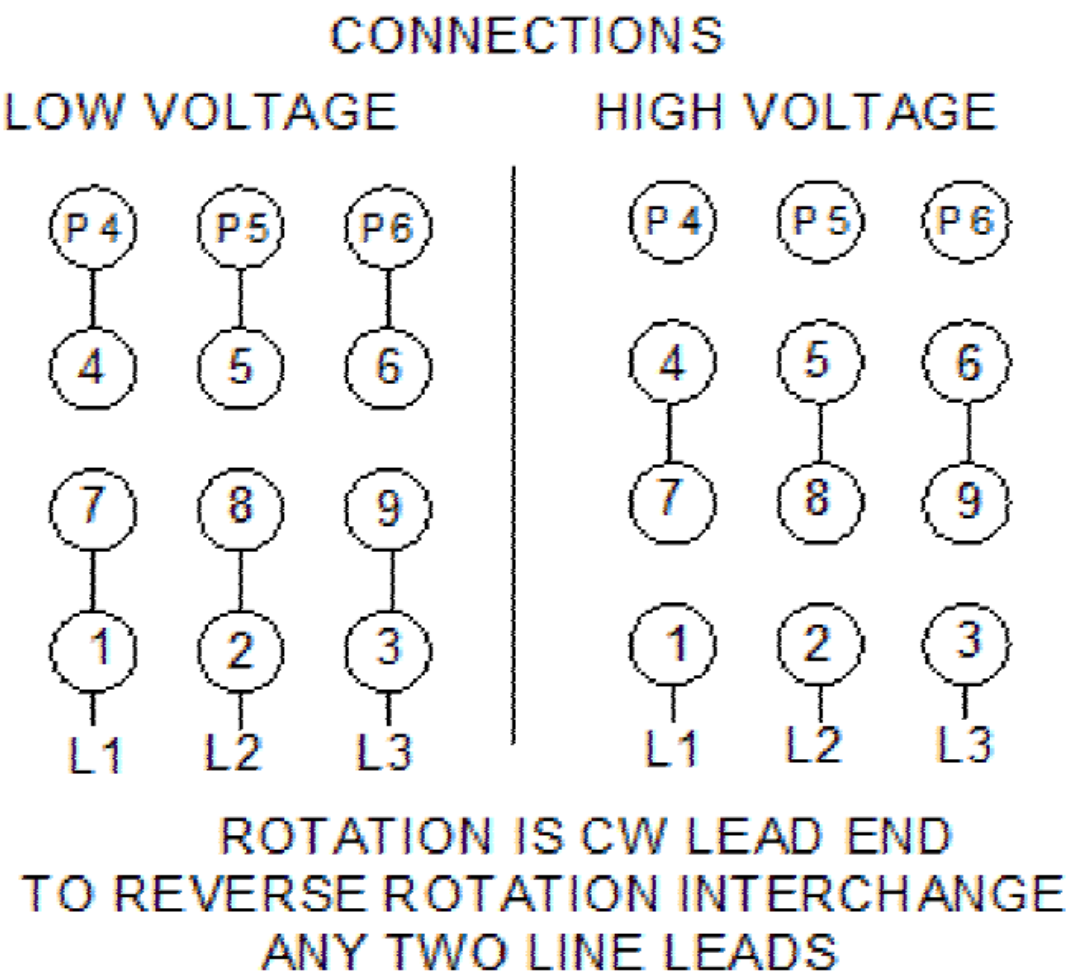
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



48ZJ98

REV.
0

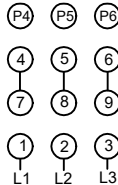
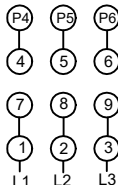


Dayton[®]**FARM DUTY MOTOR**Part
No **48ZJ98**

HP: 1 **PH:** 3
VOLTS: 208-230/460 **HZ:** 60
AMPS: 3.4-3.3/1.6 **FR:** 56H
RPM: 1725 **INS CL:** B
DUTY: CONT **AMB:** 40° C
SF: 1.15 **SFA:** 3.7-3.6/1.8
KVA CODE: K **ENCL:** TEFC
THERMALLY PROTECTED: MANUAL

MFG. NO.   PROT. CODE:  **07161**  **AVG. F.L. EFF.** 85.5

MTR REF: P63FZTLM-1457

NEMA
Premium[™]**Disconnect Power Before Making
Any Electrical Connections or Changes****CONNECTIONS****LOW VOLTAGE****HIGH VOLTAGE**

ROTATION IS CW LEAD END
TO REVERSE ROTATION INTERCHANGE
ANY TWO LINE LEADS


E37403
258501

CC030A

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

Made in Mexico