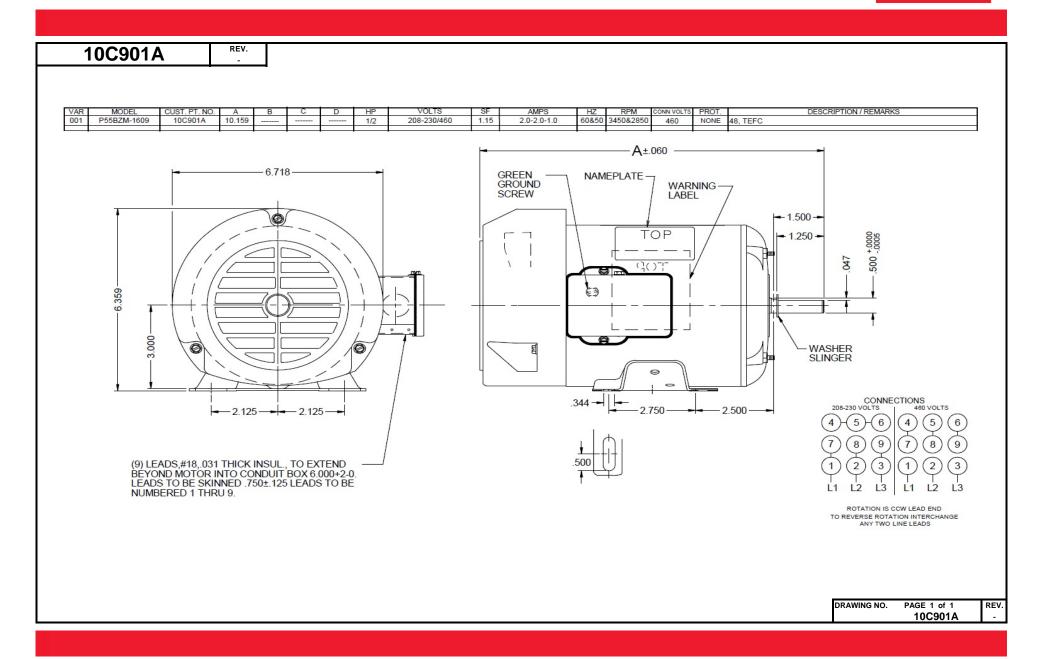
# **Dimensional Drawing**







10C901A REV.

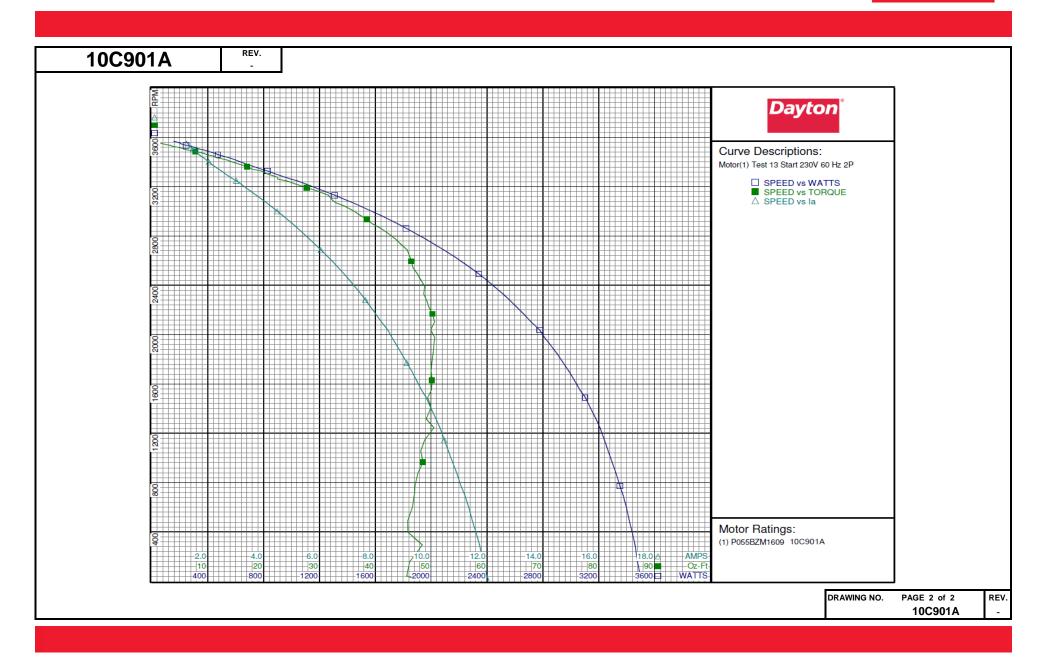
	THREE PHAS					
HP:	1/2					
Poles:	2					
Volts:	208-230/460	208	230	460	190	380
HZ:	60/50	60	60	60	50	50
Service Factor:	1.15					
Efficiency (%):	Full Load					
	Service Factor					
	3/4					
	1/2					
	1/4					
Power Factor (%):	Full Load					
	Service Factor					
	3/4					
	1/2					
	1/4					
Amps:	Full Load	1.9	1.9	0.9	2.1	1
•	Service Factor	2.2	2.1	1		
	3/4			-		
	1/2					
	1/4					
	No Load					
	Locked Rotor	10.5	12	5.9	10.8	5.5
NEMA Code Letter:				0.0		
NEMA Design Letter	r:				<u> </u>	
Full Load RPM:	·-	3408	3441	3436	2801	2820
NEMA Nominal Effic	ciency (%):	0400	0441	0400	2001	2020
Guaranteed Efficien						
Max KVAR:	(74)					
Ambient (°C):	40		!	!	!	
Altitude (FASL):						
	Lb.Ft. / Oz.Ft.					
Full Load Torque	(Circle One)	12.2	12.2	12.2	15	14.9
Torques:	Breakdown	46.8	56.4	54.9	49.5	50.5
% Full-Load	Locked Rotor	35.9	45.6	45.7	49.5	43.4
70 1 all <b>2000</b>	Pull-Up	35.8				43.4
	Service Factor	14.3	45.6 14.2	45.4 14.2	42.7	43.2
Temperature Rise:	Full Load			54.2	62	60.6
remperature itise.	Service Factor	52.9	56.8		63 N/A	62.6
Winding Material:	Cu	64.8	66.7	62.5	N/A	N/A

DRAWING NO. PAGE 1 of 1 REV. 10C901A -



0C901A	REV. -			Dov	ton Ms	mufactu	ring Con	many				
M. D				Day	ton Ma			ipany				
	Motor Description					Test Con						
Model:	P055BZM1609	100	C901A	Test Type:	Start		Run Ca		0			
Motor ID:	1 of 2			Test Number			Start Ca		0μfd			
Poles:	2			Poles:	2		Enviror		23.3 Deg C	49 % RH	965 hPa	
Volts:	208-230/460			Volts:	230		Tested:		12/21/2015 7	:09:26 AM	[	
Frequency:	60			Hz:	60		Tested	Bv:	Bribiesca, Gr	iselda		
HP:	1/2			Rotation:			Gear Ra		1:1			
Speed:	3450			Special Cond					-0.39 Oz-Ft			
Phase:	3			Speed Conn:	•				: -2.63 Oz-Ft			
Protector:	3			TestBoard:	CMD Ir	I ino Thron I	Phase #1 Fix		2,03 OZ-Ft			
Protector.	-			restibuard.	CMD II	iLine Tinee i	riiase #1 Fi/	Kture #1				
Special Points	Vab(V)	Vbc (V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF (%)
PUT OZ-FT	230.5	228.9	230.7	11.993	11.349	11.744	3498	42	45.62	0.023	0.5	75.1
	230.5	228.9	230.7	11.993	11.349	11.744	3498	42	45.62	0.023	0.5	75.1
	230.4 230.5	228.9 228.9	230.7 230.7	11.602 11.203	10.955 10.569	11.353 10.952	3439 3374	397 698	45.84 46.98	0.217 0.390	4.7 8.6	76.4 77.7
	230.4	228.9	230.6	10.763	10.152	10.518	3295	966	48.54	0.558	12.6	78.9
	230.5	228.9	230.6	10.312	9.722	10.070	3208	1245	50.49	0.748	17.4	80.3
	230.5	228.9	230.6	9.822	9.257	9.576	3104	1489	49.37	0.875	21.0	81.6
	230.5	228.9	230.6	9.303	8.766	9.063	2985	1704	49.99	1.014	25.3	82.9
	230.5	229.0	230.6	8.764	8.268	8.545	2856	1912	50.48	1.149	30.0	84.1
	230.5 230.5	229.0 229.0	230.6 230.5	8.218 7.646	7.760 7.229	8.006 7.448	2716 2560	2103 2281	50.61 49.16	1.267 1.335	34.8 38.9	85.3 86.4
	230.5	229.0	230.5	7.065	6.686	6.876	2396	2443	48.13	1.400	43.6	87.5
	230.5	229.1	230.5	6.460	6.123	6.282	2213	2594	46.49	1.436	48.4	88.3
	230.5	229.0	230.6	5.841	5.551	5.695	2024	2732	44.59	1.450	53.5	89.2
	230.5	228.9	230.6	5.216	4.972	5.078	1820	2862	40.94	1.395	57.2	89.8
	230.5	229.0	230.5	4.668	4.460	4.535	1635	2968	37.24	1.316	60.0	90.1
	230.7	229.0	230.3	4.115	3.938	4.001	1441	3068	32.96	1.204	62.3	90.1
	229.9 230.8	229.1 228.9	231.0	3.531 3.022	3.401 2.906	3.432 2.923	1231 1038	3164 3248	29.60 24.01	1.115 0.929	67.6 66.7	89.5 88.3
	230.8	228.8	230.3	2.627	2.547	2.541	884	3303	20.63	0.929	68.5	86.3
	230.8	228.9	230.3	2.263	2.192	2.176	731	3361	17.08	0.683	69.8	83.0
	230.8	229.0	230.3	1.945	1.894	1.866	597	3417	13.35	0.543	67.9	78.8
	230.7	229.0	230.3	1.694	1.648	1.606	474	3458	9.82	0.404	63.6	72.2
	230.7	229.0	230.3	1.508	1.466	1.425	373	3497	6.36	0.265	52.9	63.9
	230.7	229.1	230.2	1.374	1.332	1.293	283	3526	3.81	0.160	42.2	53.2
	229.8 230.7	229.4 229.1	230.8	1.285 1.245	1.257	1.197 1.153	207 164	3547 3565	1.87 0.34	0.079 0.014	28.5 6.5	41.7 34.2
	230.7	229.1	230.2	1.234	1.195	1.150	156	3568	0.00	0.000	0.0	32.9
											DRAWING NO.	PAGE 1 of 10C90







0C901A	-											
				Day	ton Ma	nufactu	ring Cor	npany				
Motor Des	scription					Test Con	ditions					
Model:	P055BZM1609	100	901A	Test Type:	Run		Run Ca	ap:	0			
Motor ID:	1 of 2			Test Number:	12		Start C	ap:	0μfd			
Poles:	2			Poles:	2		Enviro		23.3 Deg C	49 % RH	965 hPa	
Volts:	208-230/460			Volts:	230		Tested		12/21/2015 7			
Frequency:	60			Hz:	60		Tested		Bribiesca, Gr			
HP:	1/2			Rotation:	00		Gear R		1:1	iscida		
	3450											
Speed:				Special Cond:			Веапп	g riicuon:	-0.41 Oz-Ft			
Phase:	3			Speed Conn:	CMDI	Time miles	winda	ge Forque:	-2.92 Oz-Ft			
Protector:	-			TestBoard:	CMD In	Line Three l	Phase #1 Fi	xture #1				
Special Points	Vab(V)	Vbc (V)	Vca(V)	Ia (A)	Ib(A)	Ic(A)	Watts 147	<b>RPM</b> 3570	Tq(Oz-ft)	нр	Eff(%)	PF(%)
	230.5 230.3	229.2	230.3	1.238 1.276	1.195	1.143 1.178	190	3562	0.00 1.23	0.000 0.052	20.4	31.0 38.9
	230.3	229.4	230.4	1.340	1.301	1.248	247	3540	2.96	0.125	37.5	47.9
	230.2	229.3	230.5	1.477	1.428	1.390	352	3510	5.94	0.248	52.6	61.7
	226.0	233.6	230.3	1.668	1.652	1.636	481	3481	9.16	0.380	58.9	73.1
10 17 07 77	230.3	229.1	230.6	1.819	1.768	1.743	533	3450	11.16	0.459	64.1	75.4
12.17 OZ-FT 0.5 HP	230.1 230.1	229.1 229.1	230.8	1.876 1.878	1.817 1.819	1.793 1.795	560 562	3441 3441	12.17 12.21	0.498 0.500	66.3 66.4	76.9 77.0
14 OZ-FT	230.1	229.1	230.6	2.048	1.994	1.978	640	3414	14.00	0.569	66.3	80.1
0.575 HP	230.4	229.1	230.5	2.074	2.020	2.005	652	3410	14.16	0.575	65.8	80.4
	230.4	229.1	230.5	2.083	2.030	2.014	656	3409	14.22	0.577	65.7	80.6
	230.4	228.8	230.8	2.444	2.370	2.369	810	3354	19.00	0.758	69.8	85.0
	230.5 230.5	228.8	230.7 230.6	2.829 3.288	2.736 3.155	2.743 3.191	960 1132	3297 3233	23.69 27.05	0.930 1.041	72.2 68.6	87.0 88.5
	230.4	229.1	230.4	3.925	3.749	3.813	1366	3137	31.54	1.178	64.3	89.6
	230.5	229.0	230.5	4.441	4.247	4.328	1553	3049	36.51	1.325	63.6	89.9
	230.6	228.9	230.6	4.991	4.762	4.858	1742	2952	41.24	1.449	62.0	89.8
	230.5	228.9	230.6	5.622	5.349	5.470	1950	2834	44.66	1.507	57.7	89.3
	230.5 230.5	229.0 229.0	230.5 230.6	6.209 6.825	5.901 6.468	6.051 6.647	2139 2327	2711 2572	48.56 51.36	1.567 1.573	54.7 50.4	88.7 87.9
	230.5	228.9	230.6	7.468	7.070	7.274	2512	2409	53.74	1.541	45.8	86.7
	230.4	229.0	230.6	8.093	7.648	7.882	2686	2230	55.35	1.469	40.8	85.6
BDT OZ-FT	230.4	229.0	230.6	8.264	7.808	8.045	2732	2176	56.41	1.461	39.9	85.3
	230.4	229.0	230.6	8.643	8.157	8.421	2830	2048	56.25	1.371	36.2	84.5
	230.4 230.4	229.0 229.0	230.6 230.6	9.180 9.676	8.665 9.131	8.954 9.438	2962 3076	1846 1629	56.37 56.72	1.238 1.100	31.2 26.7	83.2 82.0
	230.4	229.0	230.6	10.124	9.131	9.438	3173	1402	56.45	0.942	22.2	80.9
	230.4	229.0	230.6	10.561	9.962	10.318	3262	1146	55.16	0.752	17.2	79.7
	230.4	229.0	230.6		10.334	10.709	3335	876	54.33	0.567	12.7	78.5
	230.4	229.0	230.6		10.673	11.061	3394	594	53.69	0.380	8.3	77.4
	230.4	229.0	230.6	11.614	10.986	11.399	3447	278	53.55	0.177	3.8	76.4

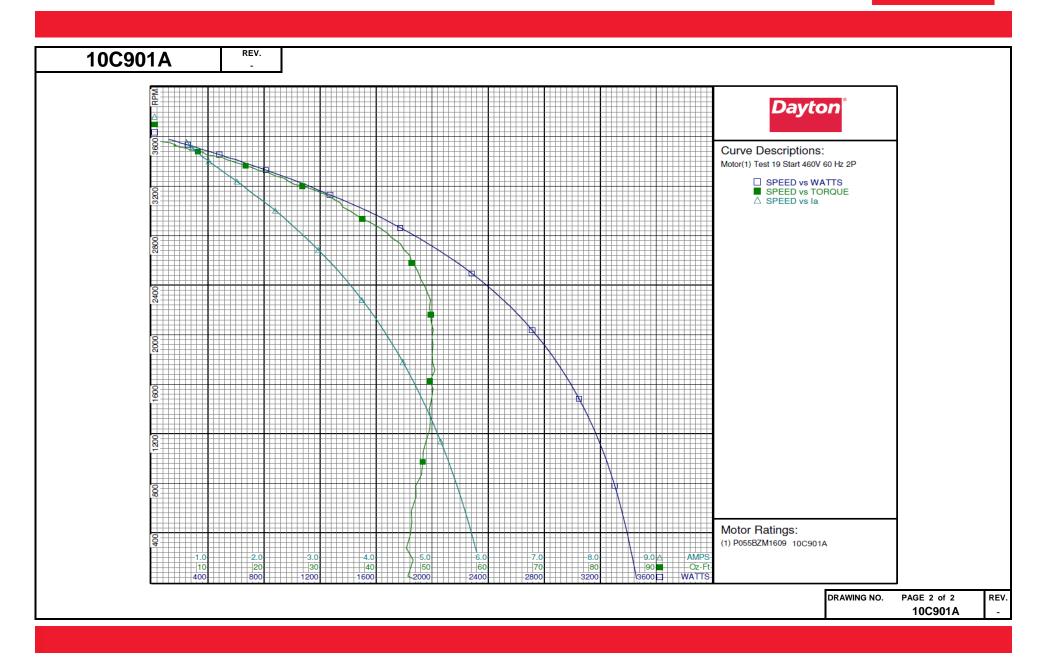






0C901A				Dayt	on Ma	nufactu	ring Co	mpany				
Motor Des	cription					Test Con	ditions					
Model:	P055BZM1609	100	C901A	Test Type:	Start		Run C	Cap:	0			
Motor ID:	1 of 2			Test Number:	19		Start (		0µfd			
Poles:	2			Poles:	2			onment:	24.5 Deg C	28 % RH	974 hPa	
Volts:	208-230/460			Volts:	460		Tested		12/18/2015 2			
Frequency:	60			Hz:	60		Tested		Navarro, Sus		•	
HP:	1/2			Rotation:	00		Gear 1		1:1	ana		
Speed:	3450			Special Cond:					-0.27 Oz-Ft			
Phase:	3430								:-0.27 Oz-Ft			
				Speed Conn: TestBoard:	CMD I-	Line Three 1			2,23 OZ-Ft			
Protector:	-			restBoard.	CMD III	Line Three I	Phase #1 F	ixture #1				
Special Points	Vab(V)	Vbc (V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	НР	Eff(%)	PF (%)
PUT OZ-FT	461.5 <b>461.5</b>	457.9 <b>458.0</b>	460.6 <b>460.6</b>	5.902 <b>5.773</b>	5.571 5.442	5.753 5.623	3455 <b>3414</b>	49 <b>276</b>	45.67 <b>45.39</b>	0.027 <b>0.149</b>	0.6 <b>3.3</b>	75.5 <b>76.3</b>
F01 02-F1	461.5	458.0	460.6	5.711	5.381	5.561	3395	381	46.09	0.209	4.6	76.8
	461.4	457.9	460.6	5.508	5.187	5.357	3326	690	47.12	0.387	8.7	78.0
	461.5	457.9	460.6	5.293	4.981	5.142	3247	973	48.34	0.560	12.9	79.3
	461.5	457.9 457.9	460.6	5.067 4.817	4.766 4.531	4.918 4.672	3156 3047	1231 1483	49.54 49.90	0.726 0.881	17.2	80.6
	461.5 461.5	457.9	460.6 460.6	4.817	4.531	4.418	2928	1711	50.47	1.028	21.6 26.2	81.8 83.1
	461.4	458.0	460.6	4.296	4.043	4.163	2799	1918	50.15	1.145	30.5	84.3
	461.4	458.0	460.5	4.028	3.794	3.901	2660	2106	49.81	1.249	35.0	85.4
	461.4	458.0	460.5	3.748	3.535	3.627	2506	2280	49.69	1.349	40.2	86.5
	461.4 461.4	458.1 458.1	460.5 460.5	3.458 3.192	3.265 3.019	3.344	2339 2181	2445 2580	47.98 46.39	1.397 1.425	44.5 48.7	87.5 88.4
	461.5	458.1	460.5	2.856	2.708	2.758	1971	2734	44.33	1.443	54.6	89.2
	461.5	458.1	460.5	2.551	2.423	2.461	1772	2864	40.60	1.384	58.3	89.7
	461.5	458.2	460.4	2.280	2.167	2.195	1585	2973	36.19	1.281	60.3	89.9
	461.5 461.6	458.1 458.0	460.4 460.4	2.028 1.714	1.937 1.644	1.952 1.645	1411 1185	3063 3168	33.65 28.96	1.227	64.8 68.8	89.8 89.2
	461.4	458.3	460.3	1.519	1.458	1.456	1040	3236	24.47	0.943	67.6	88.3
	461.5	458.2	460.3	1.286	1.239	1.227	858	3311	20.68	0.815	70.9	86.1
	461.5	458.2	460.4	1.118	1.081	1.061	721	3365	16.73	0.670	69.3	83.3
	461.5 461.6	458.2 458.4	460.3 460.0	0.983 0.858	0.952 0.830	0.927 0.801	604 483	3412 3454	13.45 9.71	0.546 0.399	67.5 61.7	79.4 73.1
	461.3	458.4	460.6	0.740	0.830	0.682	351	3498	6.55	0.399	58.0	61.8
	461.8	458.3	459.9	0.692	0.663	0.632	283	3525	4.61	0.193	51.0	53.6
	459.4	458.6	462.0	0.645	0.617	0.586	201	3549	3.23	0.137	50.7	40.9
	460.9 460.9	458.6 458.6	460.5 460.4	0.625 0.609	0.597 0.581	0.566 0.550	162 121	3565 3576	1.27	0.054	24.9 0.0	34.2 26.3
	200.5	10010	400.4	0.005	3.501	0.000	121	3376	0.00	0.000	0.0	20.5
											DRAWING NO.	PAGE 1 of

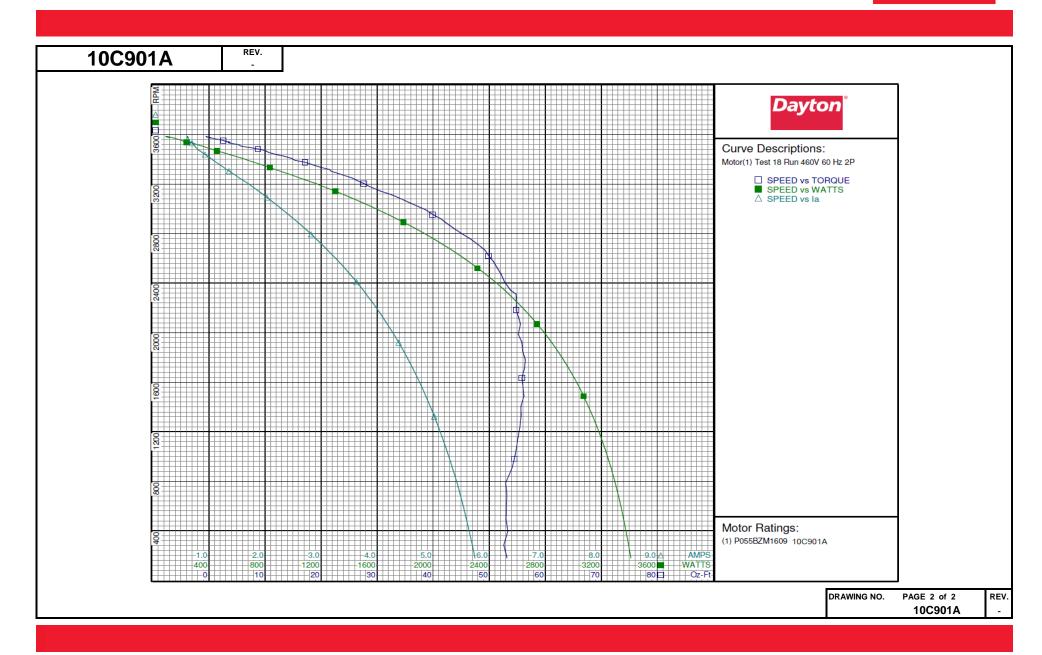






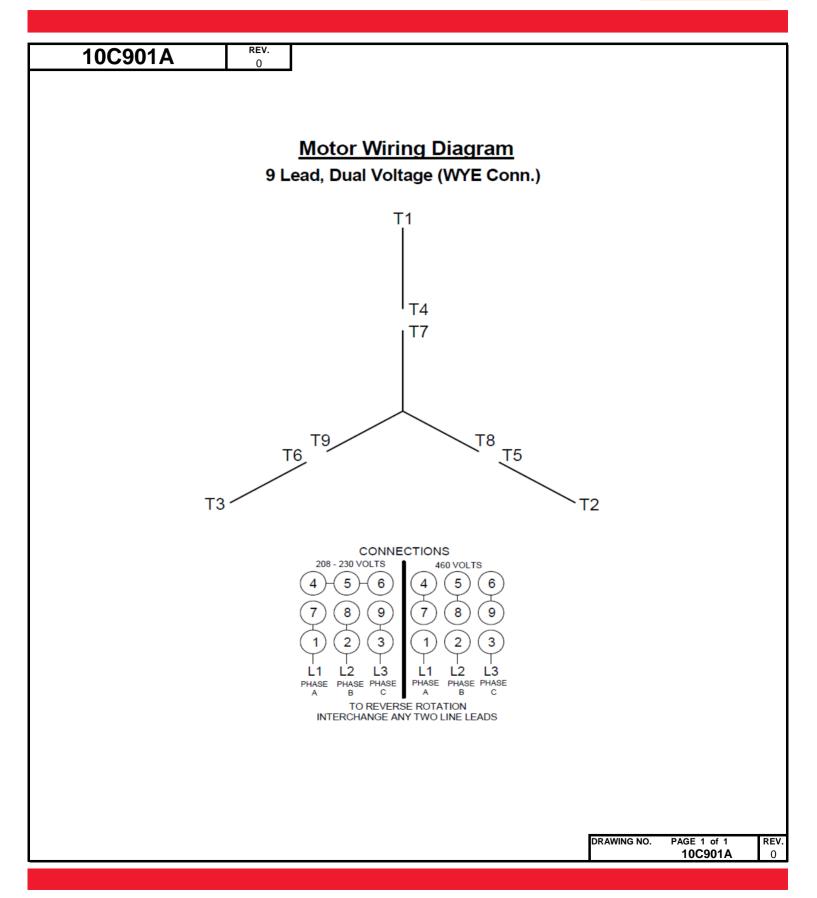
				Dayt	ton Ma	nufactu	ring Co	ompany				
Motor Des	scription					Test Con	ditions					
Model:	P055BZM1609	100	901A	Test Type:	Run		Run	Cap:	0			
Motor ID:	1 of 2			Test Number:	18			Cap:	0µfd			
Poles:	2			Poles:	2			ronment:	24.5 Deg C	28 % RH	974 hPa	
Volts:	208-230/460			Volts:	460		Test		12/18/2015 2		>7 1 III u	
	60			Hz:	60			ed By:	Navarro, Sus			
Frequency:					00			Ratio:		ana		
HP:	1/2			Rotation:					1:1			
Speed:	3450			Special Cond:					-0.35 Oz-Ft			
Phase:	3			Speed Conn:					-2.32 Oz-Ft			
Protector:	-			TestBoard:	CMD In	Line Three 1	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(%)
	460.3	459.0	460.7	0.614	0.587	0.555	123	3575	0.00	0.000	0.0	26.4
	460.9 461.4	458.4 458.3	460.7 460.3	0.617 0.632	0.585	0.556 0.572	91 177	3586 3563	-0.52 1.35	-0.022 0.057	0.0 24.2	19.4 36.7
	461.1	458.2	460.8	0.654	0.626	0.592	215	3546	2.81	0.119	41.2	43.3
	462.9	459.0	458.1	0.699	0.670	0.638	279	3532	3.53	0.148	39.6	52.3
	461.5	458.2	460.2	0.768	0.742	0.709	384	3494	7.46	0.310	60.2	65.2
	461.5	457.6	460.8	0.839	0.813	0.782	455	3468	10.10	0.417	68.3	70.4
12.17 OZ-FT 0.5 HP	461.6 461.6	457.9 457.9	460.6 460.6	0.937 0.939	0.907 0.908	0.879 0.881	551 552	3437 3436	12.17 12.22	0.498 0.500	67.4 67.5	76.2 76.2
0.5 HP	461.5	457.9	460.8	0.939	0.940	0.916	582	3426	13.31	0.543	69.6	77.5
14 OZ-FT	461.4	458.3	460.2	1.004	0.970	0.947	611	3417	14.00	0.569	69.6	78.7
0.575 HP	461.4	458.4	460.2	1.011	0.976	0.953	617	3415	14.15	0.575	69.6	78.9
	461.6	458.0	460.4	1.128	1.090	1.070	722	3376	17.15	0.689	71.2	82.7
	461.6	457.9	460.4	1.311	1.264	1.251	873	3317	21.57	0.852	72.8	85.9
	461.6 461.5	458.0 458.1	460.4 460.4	1.540 1.770	1.478	1.474 1.697	1047 1214	3249 3181	25.54 28.63	0.988 1.084	70.4 66.6	87.7 88.7
	461.6	458.0	460.4	2.036	1.941	1.958	1411	3091	33.75	1.242	65.6	89.5
	461.6	458.0	460.4	2.314	2.202	2.228	1606	2992	38.64	1.376	63.9	89.7
	461.6	458.0	460.5	2.586	2.455	2.492	1790	2891	42.16	1.451	60.5	89.5
	461.5 461.5	458.0 458.1	460.5 460.5	2.913 3.213	2.763 3.042	2.811 3.101	2005 2192	2756 2621	46.67 49.89	1.531 1.557	57.0 53.0	88.9 88.2
	461.4	458.1	460.5	3.514	3.322	3.394	2373	2472	52.12	1.534	48.2	87.3
	461.4	458.1	460.5	3.804	3.592	3.677	2540	2310	54.78	1.507	44.3	86.4
BDT OZ-FT	461.4	458.1	460.5	3.920	3.698	3.789	2603	2241	54.85	1.463	41.9	85.9
	461.4	458.1	460.5	4.104	3.868	3.970	2701	2123	55.24	1.396	38.6	85.2
	461.3	458.2 458.1	460.5 460.5	4.385 4.634	4.129 4.360	4.245	2846 2966	1920 1714	55.82 56.30	1.276 1.149	33.4 28.9	84.0
	461.4 461.3	458.1	460.5	4.867	4.583	4.487 4.719	3073	1488	56.30	0.995	28.9	82.8 81.7
	461.4	458.1	460.5	5.087	4.790	4.937	3167	1245	55.49	0.822	19.4	80.5
	461.4	458.1	460.5	5.291	4.983	5.139	3249	981	54.49	0.637	14.6	79.4
	461.4 461.4	458.1 458.1	460.5 460.5	5.483	5.167	5.333	3320 3376	692 397	53.14	0.438	9.8	78.2





# **Wiring Diagram**





# **Dayton**®

# **INDUSTRIAL MOTOR**

**HP**: 1/2 VOLTS: 208-230/460

AMPS: 2.0-2.0/1.0 PH: 3 RPM: 3450&2850 **HZ**: 60&50

**DUTY: CONT FR**: 48 INS CL: B SF: 1.15

**AMB**: 40 °C KVA CODE: L

**ENCL: TEFC SFA:** 2.3-2.0/1.1 THERMALLY PROTECTED: NONE

AVG. F.L. 76.0 EFF. MFG. NO. PROT. CODE : MTR REF: P55BZM-1609

SF AT 208 IS 1.0, FLA AT 190/380 IS 2.0/1.1





Disconnect Power Before Making Any Electrical Connections or Changes

Part 10C901A

CONNECTIONS 208-230 VOLTS

ROTATION IS CCW LEAD FND ANY TWO LINE LEADS

TO REVERSE ROTATION INTERCHANGE

460 VOLTS

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

Made in Mexico