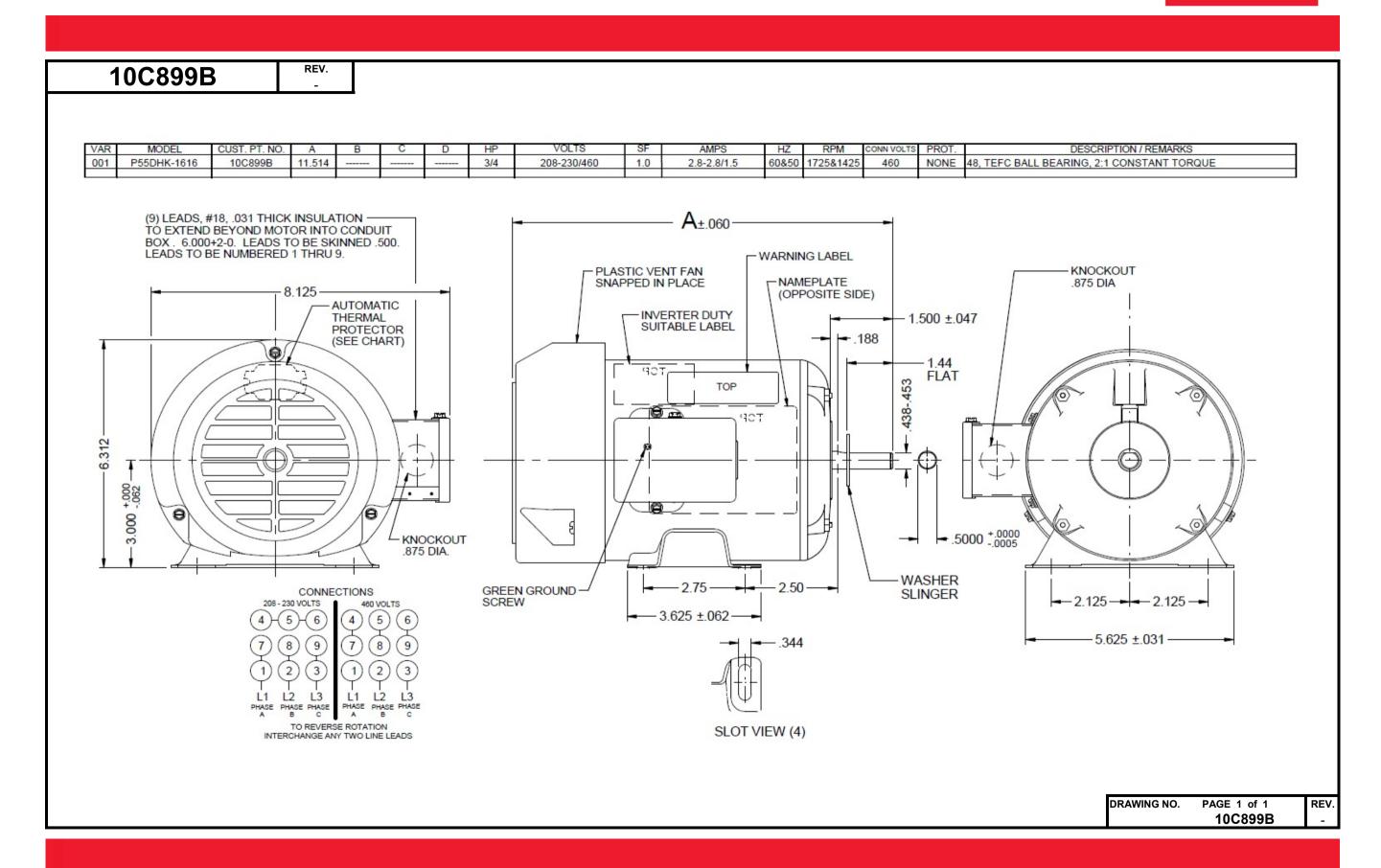
## **Dimensional Drawing**







10C899B REV.

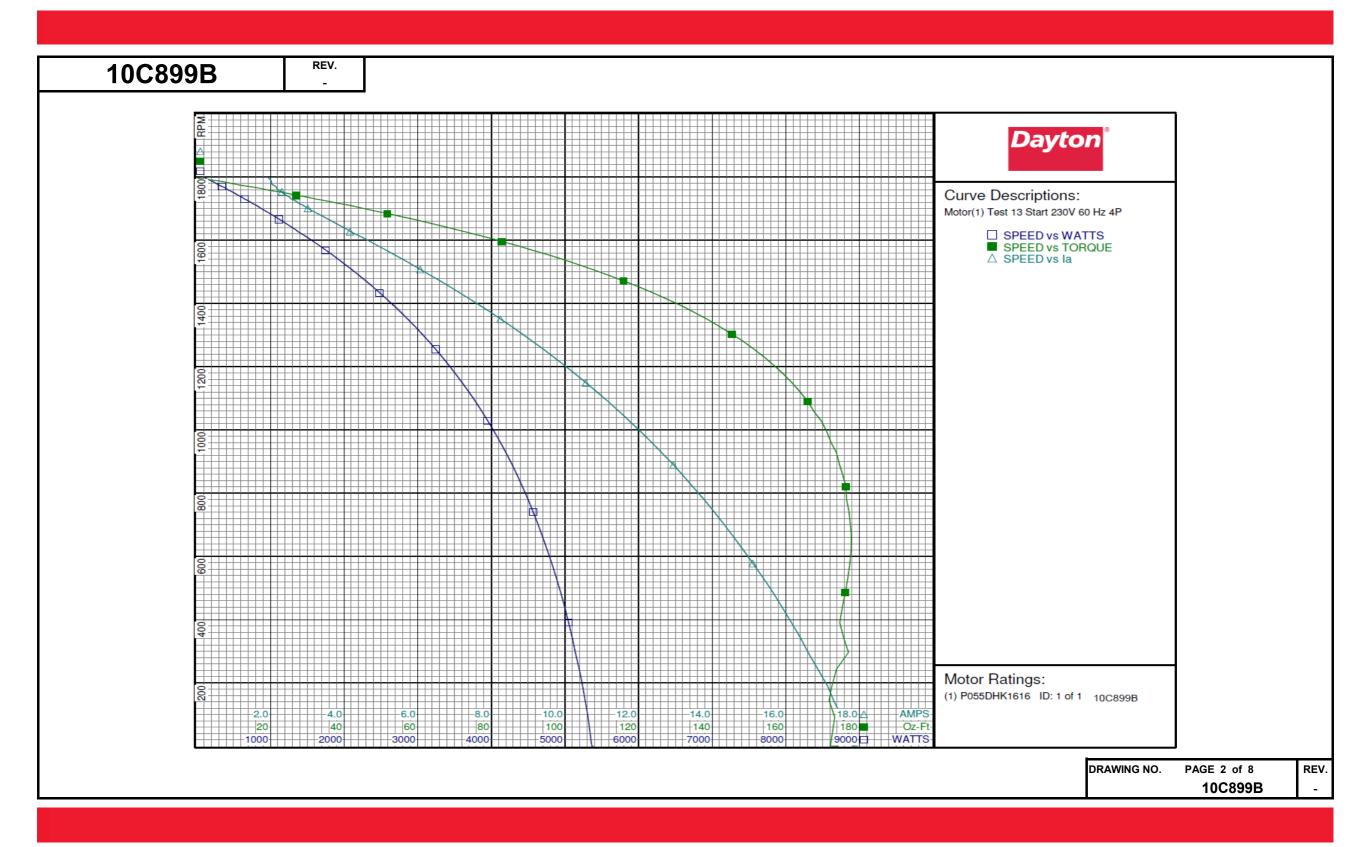
ID.	3/4					
HP:	4					
Poles: Volts:	208-230/460	208	230	460	190	380
voits: HZ:	60/50	60	60	60	50	50
nz: Service Factor:	1	60	60	60	30	30
Efficiency (%):	Full Load	70.0	70.5	70.0	76.0	77.5
Efficiency (%).	Service Factor	78.8	78.5	78.2	76.9	77.5
	3/4					
	1/2					
	1/4					
Power Factor (%):	Full Load	70.6	66.0	66.0	60.2	67.2
ower Factor (%).	Service Factor	73.6	66.9	66.2	68.3	07.2
	3/4					
	1/2					
	1/4					
Amne:	Full Load	0.7	2.7			1.5
Amps:	Service Factor	2.7	2.7	1.4	3	
	3/4	2.9	2.9	1.5	-	-
	1/2					
	1/4					
	No Load					
IEMA Ocale Lasteria	Locked Rotor	17	17.8	9.2	16.2	5.5
NEMA Code Letter:						
NEMA Design Lette	r:		<u> </u>	1		
Full Load RPM:	-:	1715	1722	1723	1404	1416
NEMA Nominal Effi						
Guaranteed Efficier	1cy (%):					
Max KVAR:						
Ambient (°C):	40					
Altitude (FASL):						
Full Load Torque	Lb.Ft. / Oz.Ft.					
	(Circle One)	36.7	36.6	36.6	44.9	44.5
Forques:	Breakdown	147.2	172.2	176.2	153.1	163.1
% Full-Load	Locked Rotor	137.9	172.1	173.8	160.4	162.2
	Pull-Up	137.9	167.8	172.3	151.9	158.5
	Service Factor	42.6	42.4	42.3	-	-
Temperature Rise:		51.8	53.8	55	63.8	63.5
	Service Factor	59.8	62.7	60.4	-	-
Winding Material:	Cu					

DRAWING NO. PAGE 1 of 1 REV. 10C899B -



10C8	899B	REV. -											
					Day	ton Ma	nufactu	ring Con	npany				
	Motor Des	cription					Test Con	ditions					
	Model: Motor ID: Poles: Volts: Frequency: HP: Speed: Phase: Protector:	P055DHK1616 1 of 1 4 208-230/460 60 3/4 1725 3	100	C899B	Test Type: Test Number: Poles: Volts: Hz: Rotation: Special Cond Speed Conn: TestBoard:	4 230 60		Run Ca Start Ca Environ Tested: Tested I Gear Ra Bearing	hp: nment: By: atio: Friction: e Torque:	0 0μfd 24.4 Deg C 4/5/2016 9:2 Navarro, Sus 1:1 -0.19 Oz-Ft :-1.31 Oz-Ft	2:58 AM	971 hPa	
Speci	ial Points	Vab(V)	Vbc (V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	НР	Eff(%)	PF (%)
		229.7	230.1	230.2	17.832	17.835	17.764	5363	100	172.08	0.000	0.0	75.6
		229.7 229.7	230.0	230.2	17.131 16.399	17.098 16.405	17.119 16.403	5239 5100	190 342	172.51 175.69	0.390 0.714	5.6 10.5	76.8 78.1
		229.7	230.0	230.2	15.648	15.653	15.650	4941	486	176.16	1.019	15.4	79.2
		229.7	230.0	230.2	14.837	14.867	14.843	4758	621	177.67	1.313	20.6	80.4
		229.7	230.0	230.2	14.047	14.065	14.058	4567	741	177.16	1.563	25.5	81.6
		229.7	230.0	230.2	13.231	13.246	13.243	4359	853	175.58	1.782	30.5	82.6
DIII	07 77	229.7	230.0	230.2	12.373	12.380	12.372	4126	958	172.33	1.966	35.5	83.7
PUT	OZ-FT	<b>229.7</b> 229.7	230.0 230.0	230.3 230.3	<b>11.494</b> 11.494	11.501 11.501	11.497 11.497	<b>3878</b> 3878	1056 1056	<b>167.76</b> 167.76	2.109 2.109	<b>40.6</b> 40.6	<b>84.7</b> 84.7
		229.8	230.0	230.2	10.569	10.568	10.568	3603	1149	161.63	2.211	45.8	85.6
		229.8	230.0	230.2	9.682	9.679	9.677	3329	1231	154.05	2.258	50.6	86.3
		229.8	230.0	230.3	8.843	8.836	8.838	3060	1303	145.30	2.253	54.9	86.9
		229.8	230.0	230.3	7.986	7.977	7.978	2774	1371	135.17	2.206	59.3	87.3
		229.8	230.0	230.3	7.137	7.122	7.128	2483	1434	123.84	2.114	63.5	87.4
		229.8	230.0	230.2	6.326 5.604	6.305 5.573	6.314 5.590	2193 1927	1490 1538	111.56 99.55	1.979	67.3 70.6	87.2 86.6
		229.8 229.8	230.0	230.2	4.938	4.897	4.923	1675	1538	87.46	1.823	73.3	85.5
		229.8	230.0	230.2	4.163	4.101	4.148	1371	1627	72.57	1.406	76.5	83.2
		229.8	230.0	230.2	3.736	3.680	3.726	1190	1655	62.65	1.235	77.4	80.5
		229.8	229.9	230.2	3.271	3.207	3.265	991	1684	51.78	1.038	78.1	76.6
		229.9	229.9	230.2	2.885	2.817	2.887	808	1710	41.52	0.845	78.0	70.8
		229.9	229.9	230.2	2.566	2.495	2.576	648	1730	32.27	0.665	76.5	63.9
		229.9 229.9	229.9 229.9	230.2	2.345 2.174	2.272	2.365 2.205	515 400	1748 1762	24.52 17.65	0.510 0.370	73.9 69.0	55.6 46.5
		229.9	229.9	230.2	2.078	2.102	2.205	302	1774	11.81	0.249	61.7	36.6
		229.9	229.9	230.1	2.021	1.945	2.065	238	1782	8.04	0.171	53.4	29.7
		230.0	229.8	230.2	2.015	1.943	2.070	178	1789	4.42	0.094	39.4	22.3
		230.0	229.8	230.2	1.967	1.886	2.025	135	1794	1.47	0.031	17.3	17.3
		230.0	229.9	230.1	1.945	1.863	2.005	112	1797	0.00	0.000	0.0	14.5
												DRAWING NO.	PAGE 1 of 8
													10C899I

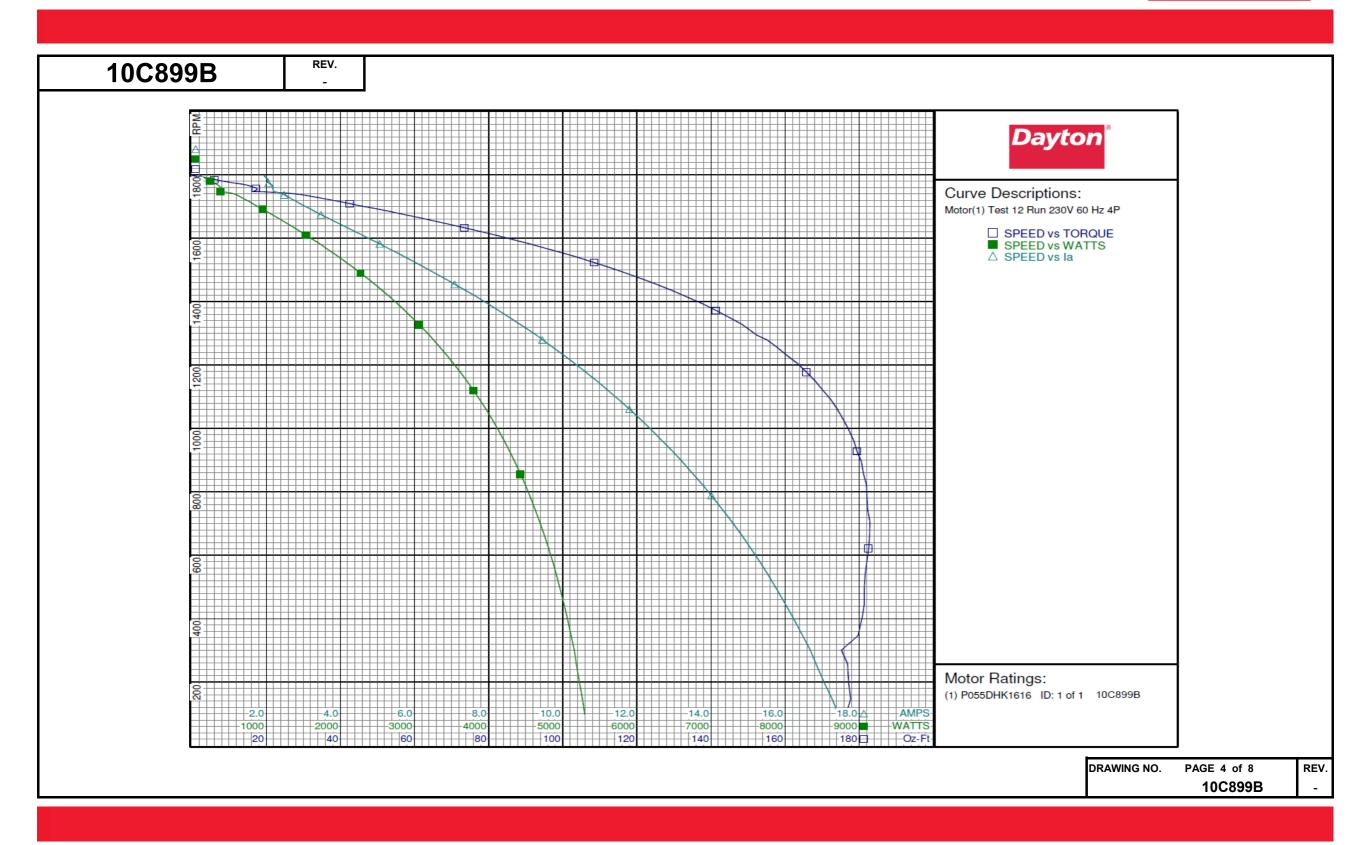






10C899B	-			Dayt	ton Ma	nufactu	ring Co	ompany				
Motor Des	cription					Test Con	ditions					
Model:	P055DHK1616	100	C899B	Test Type:	Run		Run	Cap:	0			
Motor ID:	1 of 1			Test Number:	12			Cap:	0μfd			
Poles:	4			Poles:	4			ronment:	24.3 Deg C	51 % RH	972 hPa	
Volts:	208-230/460			Volts:	230		Teste		4/5/2016 9:19		772 III u	
					60							
Frequency:	60			Hz:	60			ed By:	Navarro, Sus	апа		
HP:	3/4			Rotation:				Ratio:	1:1			
Speed:	1725			Special Cond:					-0.20 Oz-Ft			
Phase:	3			Speed Conn:			Wind	dage Torque	: -1.13 Oz-Ft			
Protector:	-			TestBoard:	CMD Ir	Line Three I	Phase #2	Fixture #1				
Special Points	Vab(V)	Vbc (V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF (%)
	229.9	230.0	230.1	1.938	1.853	1.993	106	1797	0.00	0.000	0.0	13.8
	229.9	230.0	230.1	1.963	1.878	2.011	133	1794	1.93	0.041	23.2	17.1
	229.8 229.8	230.2	230.0	2.016 2.040	1.940 1.964	2.066 2.087	181 223	1789 1783	4.54 7.07	0.097 0.150	39.8 50.2	22.7 27.6
	229.8	230.2	230.1	2.062	1.985	2.101	289	1774	11.19	0.236	61.0	35.4
	229.8	230.0	230.1	2.179	2.110	2.216	374	1762	16.16	0.339	67.7	43.3
	229.9	229.9	230.2	2.196	2.131	2.233	382	1747	16.51	0.343	67.1	43.8
	229.8	230.0	230.2	2.587	2.514	2.600	641	1731	32.29	0.666	77.4	62.7
36.52 OZ-FT	229.8	230.0	230.2	2.693	2.616	2.699	712	1722	36.52	0.749	78.5	66.9
0.75 HP	229.8	230.0	230.2	2.696	2.619	2.702	713	1722	36.59	0.750	78.5	67.0
42 OZ-FT	229.8	230.0	230.2	2.887	2.809	2.888	808	1710	42.00	0.855	78.9	70.9
0.862 HP	229.8 229.8	230.0 230.0	230.2 230.2	2.897 2.901	2.819 2.822	2.897 2.901	<b>814</b> 817	1709 1709	<b>42.36</b> 42.51	0.862 0.865	<b>79.0</b> 79.0	<b>71.2</b> 71.3
	229.8	230.0	230.2	3.292	3.213	3.285	999	1685	52.91	1.061	79.3	76.8
	229.9	229.9	230.2	3.821	3.746	3.807	1225	1654	65.31	1.286	78.3	81.1
	229.8	229.9	230.2	4.407	4.330	4.388	1465	1620	78.08	1.506	76.7	84.1
	229.8	229.9	230.2	5.065	4.976	5.042	1721	1582	91.00	1.714	74.3	85.9
	229.8	230.0	230.2	5.748	5.673	5.723	1981	1540	103.85	1.904	71.7	87.0
	229.8 229.8	230.0	230.2	6.549 7.366	6.485 7.335	6.526 7.341	2272 2560	1490 1436	117.03 129.29	2.075 2.210	68.1 64.4	87.5 87.5
	229.8	230.0	230.2	8.259	8.196	8.234	2865	1372	141.27	2.308	60.1	87.4
	229.8	230.0	230.2	9.288	9.249	9.266	3200	1294	152.28	2.346	54.7	86.7
	229.8	230.0	230.2	10.051	9.992	10.027	3442	1229	160.63	2.350	50.9	86.2
	229.8	230.0	230.2		10.862	10.892	3706	1149	168.11	2.300	46.3	85.4
BDT OZ-FT	229.8	230.0	230.2		11.431	11.464	3873	1093	172.17	2.240	43.1	84.8
	229.8	230.0	230.2		11.748	11.779	3963	1060	174.07	2.197	41.4	84.5
	229.8	230.1	230.2		12.642	12.668	4210	960 855	178.54	2.041	36.2	83.5
	229.8 229.8	230.1	230.1		13.476 14.284	13.504 14.303	4431 4631	741	181.16 182.28	1.845	31.1 25.9	82.4 81.3
	229.8	230.1	230.1		15.024	15.036	4808	622	182.53	1.352	21.0	80.2
	229.8	230.1	230.1		15.721	15.742	4965	493	181.32	1.064	16.0	79.2
	229.8	230.1	230.1		16.428	16.446	5112	346	179.65	0.740	10.8	78.0
	229.8	230.1	230.1	17.051	17.024	17.029	5225	199	177.10	0.419	6.0	77.0
											DRAWING NO.	PAGE 3 of 8
												10C899

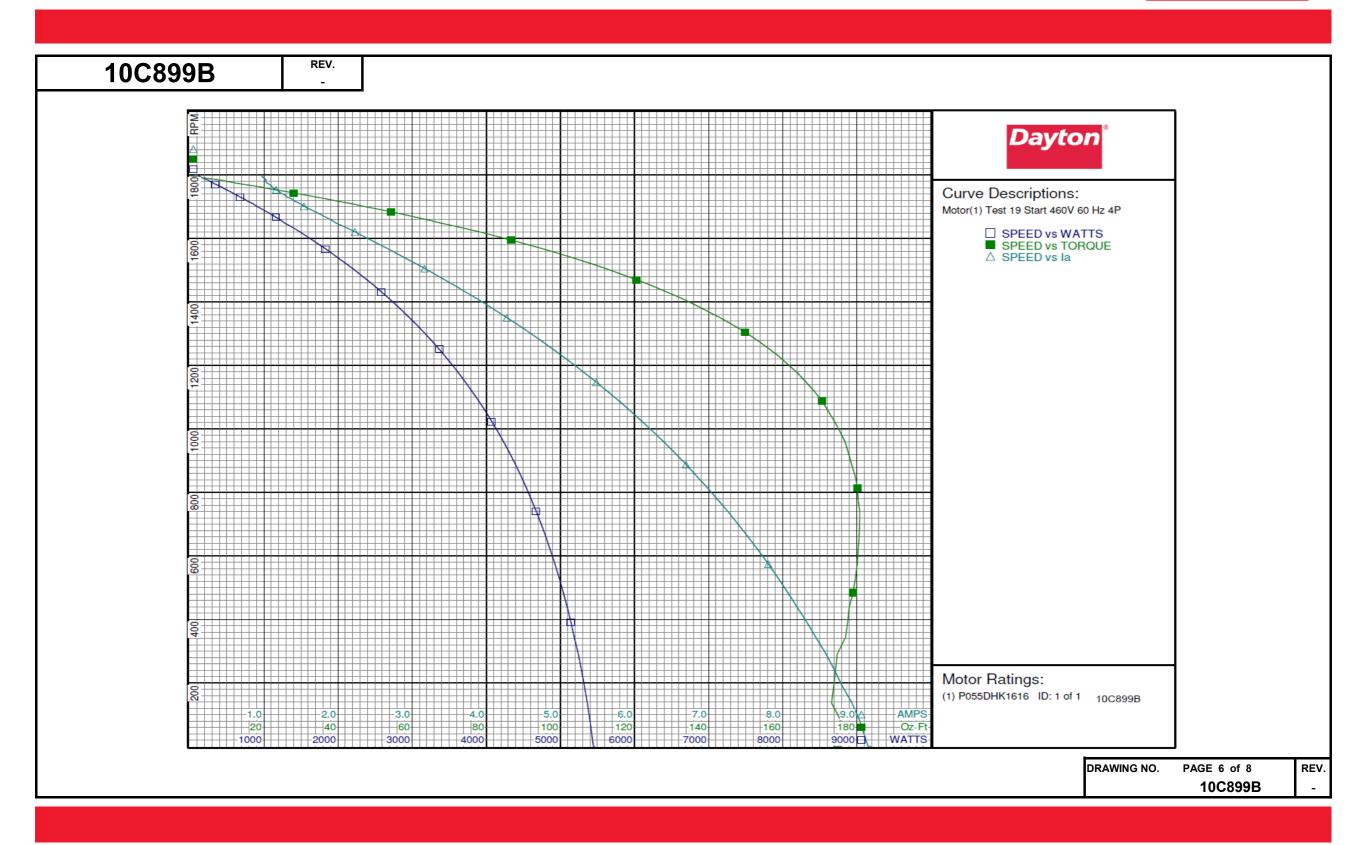






Motor Desc  Model: Motor ID: Poles: Volts: Frequency: HP: Speed: Phase: Protector:	P055DHK1616 1 of 1 4 208-230/460 60 3/4 1725 3	100	C899B	Test Type: Test Number: Poles: Volts: Hz: Rotation:	Start 19 4 460 60	Test Con	ditions Run Cap Start Ca Environ	p:	0 0μfd			
Model: Motor ID: Poles: Volts: Frequency: HP: Speed: Phase: Protector:	P055DHK1616 1 of 1 4 208-230/460 60 3/4 1725	100	C899B	Test Number: Poles: Volts: Hz: Rotation:	19 4 460		Run Cap Start Ca	p:	0μfd			
Motor ID: Poles: Volts: Frequency: HP: Speed: Phase: Protector:	1 of 1 4 208-230/460 60 3/4 1725		20332	Test Number: Poles: Volts: Hz: Rotation:	19 4 460		Start Ca	p:	0μfd			
Poles: Volts: Frequency: HP: Speed: Phase: Protector:	4 208-230/460 60 3/4 1725			Poles: Volts: Hz: Rotation:	4 460				•			
Volts: Frequency: HP: Speed: Phase: Protector:	208-230/460 60 3/4 1725			Volts: Hz: Rotation:	460		LIIVIIOII		25 0 Dec C	53 % RH	066 hPa	
Frequency: HP: Speed: Phase: Protector:	60 3/4 1725			Hz: Rotation:			Tested:	ment.	4/6/2016 9:0		900 III a	
HP: Speed: Phase: Protector:	3/4 1725			Rotation:	00		Tested.	Qv.	Navarro, Su			
Speed: Phase: Protector:	1725						Gear Ra	•	1:1	Salia		
Phase: Protector:												
Protector:	<i>3</i>			Special Cond:					-0.24 Oz-Ft			
	-			Speed Conn: TestBoard:	CMD In	Lina Thrac I	windage Phase #2 Fix		: -1.17 Oz-Ft			
				restboard.	CMD III	Line Tinee i	riiase #2 Fix	ture #1				
Special Points	Vab(V)	Vbc (V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF (%)
•	459.7	459.8	460.5	9.150	9.171	9.193	5444	0	173.76	0.000	0.0	74.5
	459.7	459.8	460.5	8.795	8.809	8.810	5321	193	173.80	0.398	5.6	75.8
	459.7 459.7	459.8 459.8	460.5 460.5	8.446 8.068	8.444 8.065	8.453 8.072	5187 5038	344 485	176.90 178.96	0.724 1.033	10.4 15.3	77.1 78.4
	459.7	459.8	460.5	7.671	7.663	7.675	4865	617	180.31	1.324	20.3	79.6
	459.7	459.7	460.6	7.257	7.256	7.259	4674	740	180.77	1.593	25.4	80.8
	459.7	459.7	460.5	6.828	6.825	6.831	4463	854	179.45	1.824	30.5	82.0
	459.7	459.7	460.6	6.391	6.383	6.390	4232	960	176.77	2.020	35.6	83.2
PUT OZ-FT	459.7	459.7	460.6	5.950	5.945	5.951	3990	1055	172.31	2.164	40.5	84.2
	459.7	459.7	460.6	5.950	5.945	5.951	3990	1055	172.31	2.164	40.5	84.2
	459.7 459.7	459.7 459.7	460.6 460.6	5.486 5.027	5.478 5.018	5.486 5.024	3721 3442	1146 1229	166.32 158.92	2.270 2.325	45.5 50.4	85.2 86.0
	459.7	459.7	460.6	4.575	4.564	4.572	3156	1304	149.89	2.327	55.0	86.7
	459.7	459.7	460.6	4.144	4.130	4.141	2873	1370	139.72	2.279	59.2	87.1
	459.7	459.7	460.6	3.715	3.699	3.710	2582	1432	128.54	2.191	63.3	87.4
	459.7	459.7	460.5	3.293	3.275	3.287	2285	1489	116.09	2.057	67.2	87.3
	459.8	459.7	460.5	2.911	2.890	2.904	2008	1537	103.77	1.899	70.6	86.8
	459.8 459.8	459.7 459.7	460.5 460.5	2.551	2.526	2.544	1736	1582	90.70	1.708	73.4 75.7	85.8
	459.8	459.7	460.5	2.228 1.930	2.200 1.912	2.221 1.926	1484 1241	1620 1655	78.10 65.31	1.506 1.287	77.4	84.1 81.0
	459.8	459.7	460.5	1.693	1.669	1.691	1039	1683	54.38	1.090	78.2	77.4
	459.9	459.6	460.5	1.484	1.458	1.486	844	1709	43.48	0.885	78.2	71.8
	459.8	459.7	460.5	1.313	1.283	1.318	680	1730	34.06	0.701	77.0	65.4
	459.9	459.6	460.5	1.202	1.172	1.212	544	1747	26.13	0.543	74.5	57.1
	459.9	459.6	460.5	1.108	1.077	1.123	422	1762	18.89	0.396	70.1	48.0
	459.9 459.9	459.7 459.6	460.4 460.5	1.041	1.009 0.996	1.061	316 249	1774 1782	12.51 8.51	0.264	62.5 54.1	38.2 30.5
	460.0	459.5	460.5	1.027	0.966	1.027	181	1789	4.46	0.101	39.2	22.8
	459.9	459.6	460.4	0.978	0.939	1.004	141	1794	1.69	0.036	19.1	18.2
	459.8	460.0	460.3	0.969	0.929	0.996	115	1797	0.00	0.000	0.0	14.9

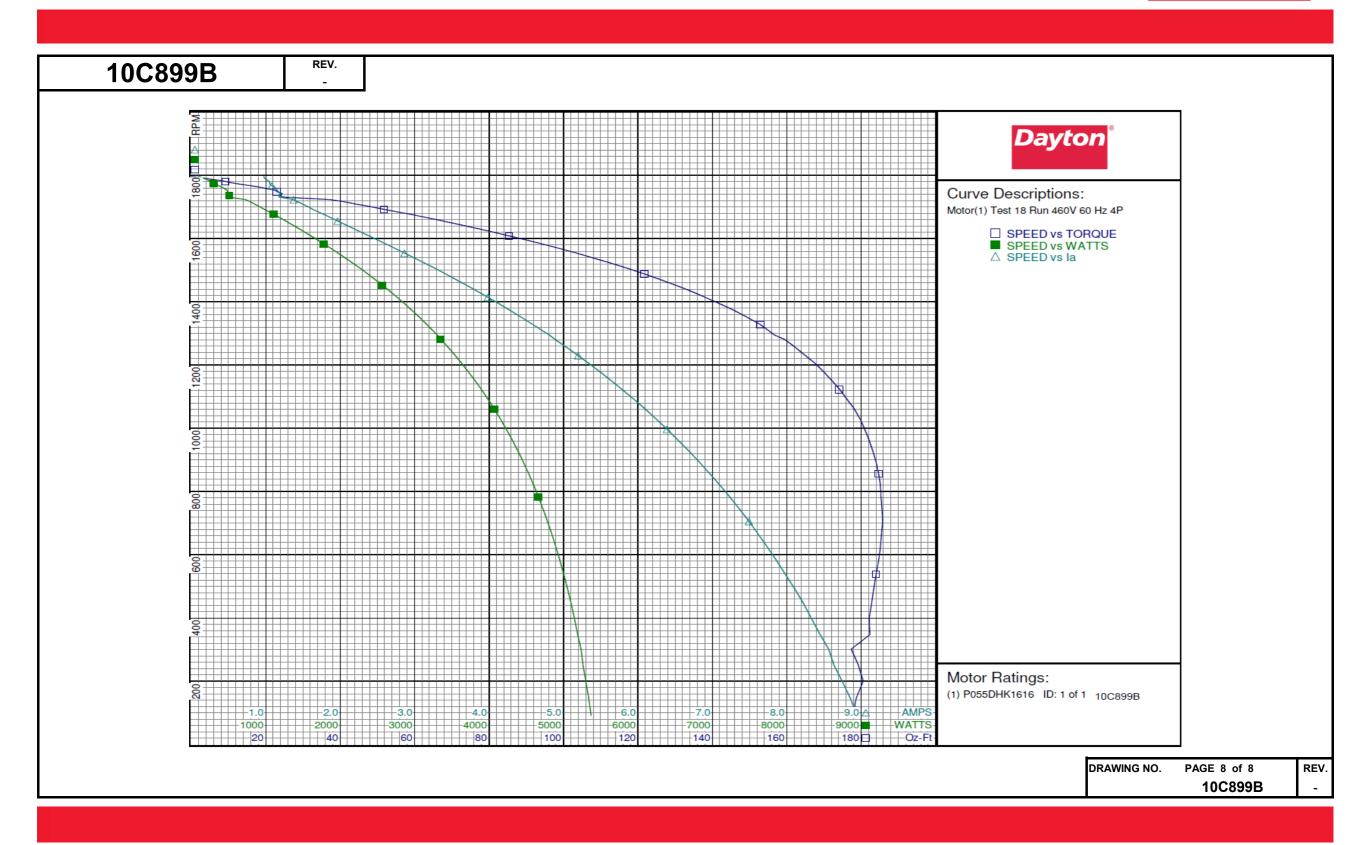






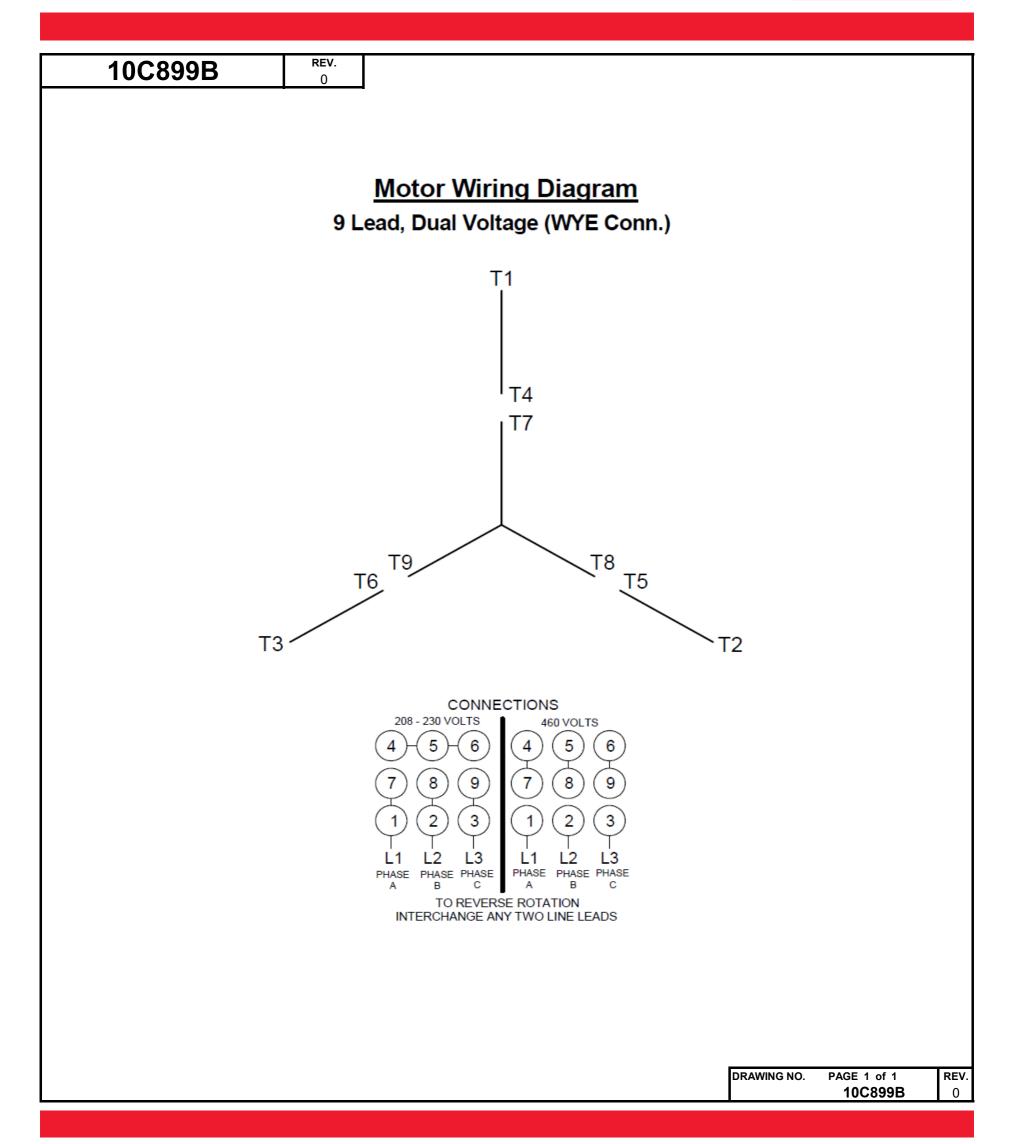
10C899B	-			Davi	ton Ma	nufactu	ring Com	nbany				
Motor Des	cription			2,		Test Con		TJ				
Model:	P055DHK1616	10C8	899B	Test Type:	Run	rest con	Run Ca	n:	0			
Motor ID:	1 of 1	1000		Test Number:	18		Start Ca		Oμfd			
Poles:	4			Poles:	4		Environ		25.0 Deg C	53 % RH	966 hPa	
Volts:	208-230/460			Volts:	460		Tested:	ment.	4/6/2016 9:04		900 III a	
				Hz:	60			D				
Frequency:	60				00		Tested I		Navarro, Susa	ana		
HP:	3/4			Rotation:			Gear Ra		1:1			
Speed:	1725			Special Cond:					-0.27 Oz-Ft			
Phase:	3			Speed Conn:					-1.29 Oz-Ft			
Protector:	-			TestBoard:	CMD In	Line Three I	Phase #2 Fix	ture #1				
Special Points	Vab(V)	Vbc (V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	459.9	459.9	460.2	0.972	0.929	0.997	108	1795	0.00	0.000	0.0	14.0
	459.7	460.3	460.0	0.982	0.939	1.002	156	1791	3.06	0.065	31.2 47.5	20.1
	459.7 459.7	460.2 460.1	460.1 460.1	1.014 1.050	0.974 1.015	1.032	223 277	1785 1777	6.68 10.22	0.142	58.2	27.8 33.3
	459.8	460.0	460.2	1.083	1.047	1.097	371	1767	15.95	0.335	67.5	43.3
	459.8	460.0	460.2	1.152	1.115	1.161	480	1753	22.47	0.469	72.8	52.7
26 50 05 55	459.9	459.7	460.4	1.179	1.145	1.188	510	1736	24.02	0.496	72.6	54.7
36.52 OZ-FT 0.75 HP	459.7 459.7	460.0 460.0	460.3 460.3	1.363 1.364	1.326 1.327	1.365 1.366	714 714	1723 1723	36.52 36.56	0.749 0.750	78.2 78.3	66.2 66.2
0.75 HF	459.7	459.9	460.3	1.419	1.327	1.418	781	1717	40.41	0.826	78.9	69.7
42 OZ-FT	459.8	459.9	460.3	1.451	1.414	1.450	809	1714	42.00	0.857	79.0	70.6
0.862 HP	459.8	459.9	460.3	1.457	1.420	1.455	814	1713	42.27	0.862	79.0	70.8
	459.8	459.9	460.4	1.630	1.593	1.625	982	1692	51.75	1.042	79.2	76.2
	459.8 459.8	459.8 459.8	460.4 460.4	1.884 2.164	1.848	1.876 2.154	1198 1430	1664 1633	63.80 76.29	1.264	78.7 77.4	80.5 83.5
	459.8	459.8	460.5	2.496	2.463	2.486	1691	1596	89.71	1.704	75.2	85.6
	459.7	459.8	460.5	2.863	2.832	2.852	1971	1554	103.47	1.914	72.4	86.8
	459.7	459.8	460.5	3.273	3.245	3.261	2268	1506	117.12	2.099	69.1	87.3
	459.7	459.8	460.5	3.692	3.665	3.681	2565	1452	130.01	2.248	65.4	87.5
	459.7 459.7	459.8 459.8	460.5 460.5	4.133 4.585	4.108 4.560	4.123 4.575	2865 3161	1393 1328	141.99 152.82	2.355 2.416	61.3 57.0	87.2 86.8
	459.7	459.8	460.5	5.035	5.016	5.028	3446	1256	162.15	2.425	52.5	86.1
	459.6	459.8	460.5	5.482	5.464	5.475	3717	1179	169.79	2.384	47.8	85.2
BDT OZ-FT	459.7	459.8	460.5	5.946	5.930	5.939	3986	1091	176.17	2.288	42.8	84.2
	459.7 459.7	459.8 459.8	460.5 460.5	5.946 6.391	5.930 6.376	5.939	3986 4231	1091	176.17 180.91	2.288	42.8 37.8	84.2
	459.6	459.8	460.5	6.819	6.804	6.381 6.814	4457	997 894	183.94	2.146 1.958	32.8	83.2 82.1
	459.6	459.8	460.5	7.231	7.220	7.225	4662	783	185.29	1.727	27.6	81.0
	459.6	459.8	460.5	7.612	7.606	7.603	4840	666	185.44	1.471	22.7	79.9
	459.7	459.8	460.5	7.978	7.975	7.973	5002	538	183.97	1.179	17.6	78.7
	459.6 459.6	459.8 459.8	460.5 460.5	8.329 8.632	8.323 8.645	8.322 8.633	5146 5261	399 251	182.14 179.20	0.864	12.5 7.6	77.6 76.4
	459.6	459.8	460.5	8.943	8.937	8.939	5370	91	177.76	0.193	2.7	75.4
											DRAWING NO.	PAGE 7 of 8
											DRAWING NO.	PAGE / OT ?





# **Wiring Diagram**





#### **Dayton**® **INDUSTRIAL MOTOR**

BAR CODE

Part 10C899B

VOLTS: 208-230/460 **AMPS:** 2.8-2.8/1.5 RPM: 1725 & 1425

**HP:** 3/4

PH: 3 HZ: 60&50

Disconnect Power Before Making Any Electrical Connections or Changes

**DUTY: CONT** SF: 1.0

FR: 48 INS CL: B AMB: 40 °C

CONNECTIONS 208 - 230 VOLTS 460 VOLTS

KVA CODE: F **ENCL: TEFC** SFA: 2.8-2.8/1.5

THERMALLY PROTECTED: NONE

PHASE PHASE PHASE PHASE

MFG. NO. PROT. CODE: -- AVG. F.L. 74.0 MTR REF: P55DHK-1616

190/380V, 50 HZ, AMPS 3.1/16 E47479



TO REVERSE ROTATION INTERCHANGE ANY TWO LINE LEADS

PHASE PHASE

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