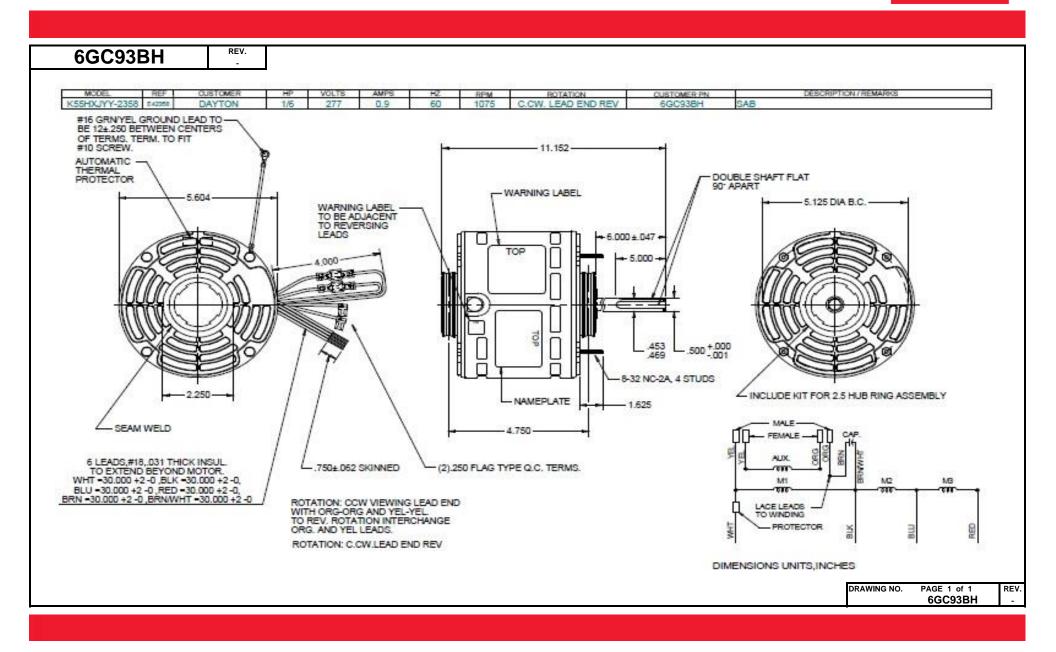
#### **Dimensional Drawing**







6GC93B	REV.							
						<b>CE</b>		
	SHADED-POLE		JIORI	PERFC	RIMAN	<b>UE</b>		
HP:	1/6							
Poles:	6							
Ambient (°C):	40							
Altitude (FASL):	1000							
No. of Speeds:	3							
		HIGH SP	EED					
Volts:		115	208	230	277	460	100	200
HZ:		60	60	60	60	60	50	50
Service Factor:					1.0			
Efficiency:	@ Rated Load				54.7			
Power Factor:	@ Rated Load				93.5			
Amps:	@ No Load				0.46			
	@ Rated Load				0.9			
	@ Locked Rotor				1.7			
RPM:	@ Rated Load				1075			
Torques:	Breakdown				16.6			
Oz.Ft. / Lb.In.	Locked Rotor				5.1			
(Circle One)	Pull-Up							
	Rated Load				13.3			
<b>NA</b> / //	Service Factor				1			
Watts:	Rated Load				233			
Temperature Rise: Thermal Protector:	@ Rated Load				140~150			
	Trip Temp (°C) Start (Auxiliary)				COPPER			
Winding Material:	Run (Main)				AL+COPPER	2		
Capacitor:	Run (MFD / Volts)	4.0MFD 3	870\/	, r		`		
Capacitor.	No. of Run Capacitors	1	5700					
HP:		EDIUM-HIG		ED.				
Volts:		120	208	230	277	460	100	200
HZ:		60	60	60	60	60	50	50
Efficiency:	@ Rated Load		-	-	-	-	-	-
Power Factor:	@ Rated Load							
Amps:	@ No Load				0.27			
•	@ Rated Load							
	@ Locked Rotor				1.1			
Torques:	Breakdown				10.5			
Oz.Ft. / Lb.In.	Locked Rotor				2.7			
(Circle One)	Pull-Up							
	Rated Load							
Watts:	Rated Load							
Temperature Rise:	@ Rated Load							
							DRAWING N	O. PAGE

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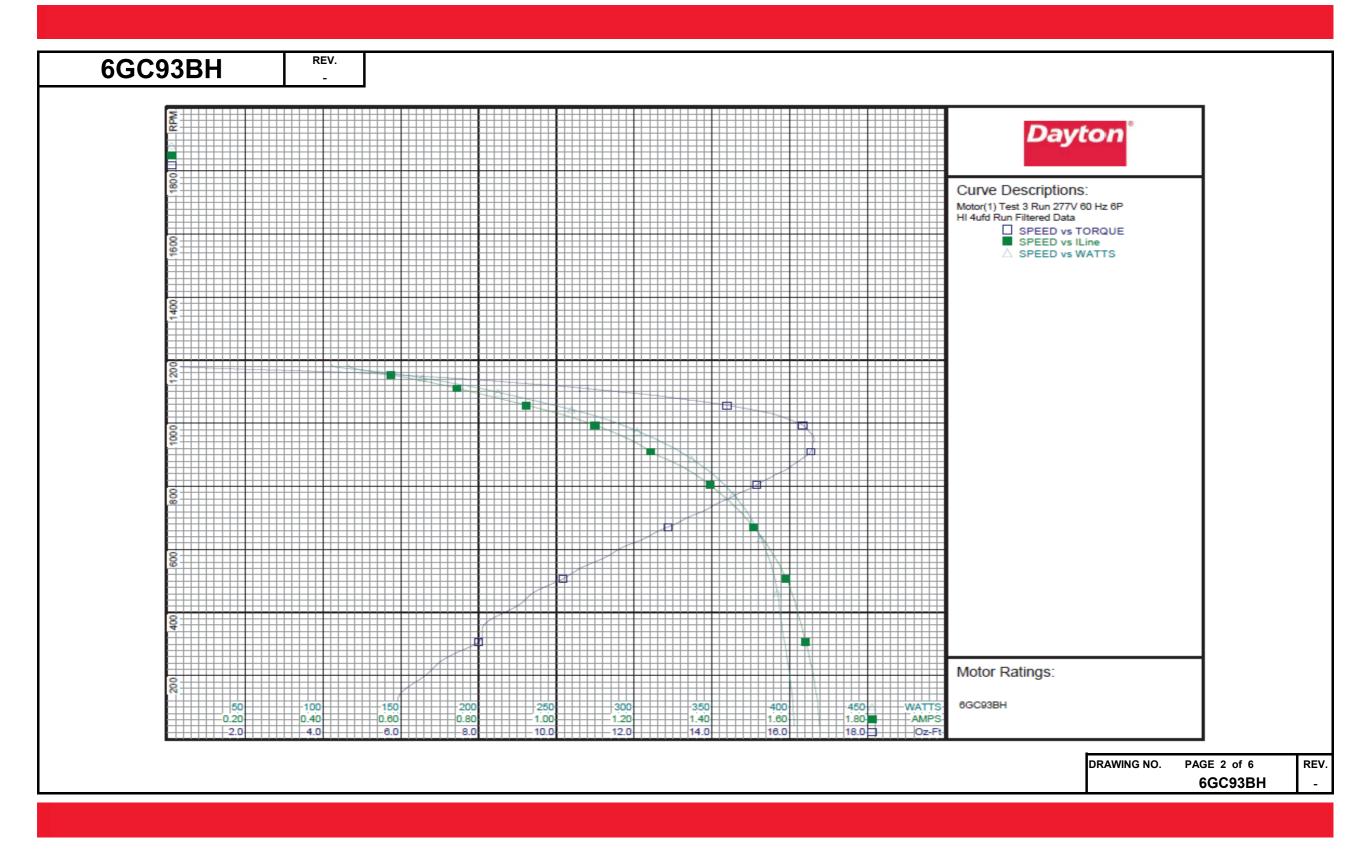
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iary)							
	LOW SP	EED					
	400				100	100	
	120	208	230	277	460	100	200
	60	60	60	60	60	50	50
				0.10			
				0.19			
				7.2			
				1.7			
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6GC93BH	REV. -									
				1	Daytor	n Manuf	facturing	Comp	any Filtered	
Motor Des	cription					Test Cor	nditions			
Model:	6GC93BH			Test Type:	Run		Run Ca	ip:	4	
Motor ID:	2 of 3			Test Number:	3		Start Ca	-	0µfd	
Poles:	6			Poles:	6		Enviror			
Volts:	277			Volts:	277		Tested:		2/3/2016 4:20:	51 PM
Frequency:	60			Hz:	60		Tested		Liu, Bingmin	
HP:	1/6			Rotation:			Gear R		1:1	
Speed:	1075			Special Cond:					-0.69 Oz-Ft	
Phase:	1			Speed Conn:	HI				: -1.04 Oz-Ft	
Protector:	7AM036-A5			TestBoard:		Plotter Fiz		se renque		
Special Points	Vline(V)	Vaux (V)	Vcap(V)	Iline (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF (%)
	277.0	285.7	450.8	0.466	105.6	1185	0.000	0.000	0.0	0.0
	277.0	285.5	450.0	0.466	106.5	1180	0.229	0.003	2.4	0.0
	277.0 277.0	279.4 273.7	437.4 425.8	0.515	131.0 153.1	1166 1152	3.546 6.144	0.049	27.5 41.6	0.0
	277.0	268.8	416.8	0.643	171.0	1132	7.965	0.108	47.2	0.0
	277.0	262.9	408.5	0.701	187.6	1123	9.520	0.127	50.6	0.0
	277.0	254.9	399.4	0.757	204.0	1107	10.999	0.145	53.1	0.0
0.16 HP	277.0 277.0	245.8 244.5	389.1 387.5	0.810 0.819	218.6 220.8	1091 1089	12.317 12.495	0.160 0.162	54.6 54.7	0.0
1075 RPM	277.0	237.9	380.0	0.865	232.9	1075	13.341	0.171	54.7	0.0
	277.0	235.8	377.7	0.880	236.9	1070	13.639	0.174	54.7	0.0
	277.0	226.7	368.7	0.942	253.1	1051	14.661	0.184	54.1	0.0
	277.0	216.5 206.0	359.3 351.0	1.005	269.5 284.6	1031	15.517 16.075	0.190 0.193	52.7 50.6	0.0
	277.0	196.1	343.4	1.122	298.1	983	16.435	0.192	48.1	0.0
	277.0	185.9	336.7	1.175	311.0	956	16.616	0.189	45.3	0.0
BDT OZ-FT	277.0	182.8	334.8	1.190	314.9	947	16.632	0.188	44.4	0.0
	277.0 277.0	175.6 165.7	330.6 325.4	1.222 1.269	323.5 334.9	926 893	16.588 16.387	0.183	42.2	0.0
	277.0	155.8	321.1	1.329	345.3	858	15.988	0.163	35.3	0.0
	277.0	146.3	317.8	1.377	354.8	820	15.387	0.150	31.6	0.0
	277.0	137.6	315.5	1.420	362.9	779	14.714	0.136	28.0	0.0
	277.0 277.0	129.3 121.7	313.6 312.5	1.460	370.3 376.5	734 686	13.976 13.159	0.122 0.107	24.6 21.3	0.0
	277.0	114.5	312.4	1.530	381.7	634	12.267	0.093	18.1	0.0
	277.0	107.8	312.4	1.560	386.1	578	11.323	0.078	15.1	0.0
	277.0	101.8	313.1	1.586	389.9	519	10.339	0.064	12.2	0.0
	277.0	96.5 91.7	314.4 315.7	1.608	392.4 394.1	455	9.322 8.449	0.050	9.6 7.4	0.0
	277.0	88.1	317.8	1.640	396.4	313	8.053	0.030	5.6	0.0
	277.0	85.4	320.8	1.655	399.0	236	6.935	0.019	3.6	0.0
	277.0 277.0	83.4 81.8	323.9 327.0	1.667	401.2 402.7	153 65	6.068 5.879	0.011 0.004	2.0	0.0
									DRAWING NO.	PAGE 1 of 6
										6GC93BH

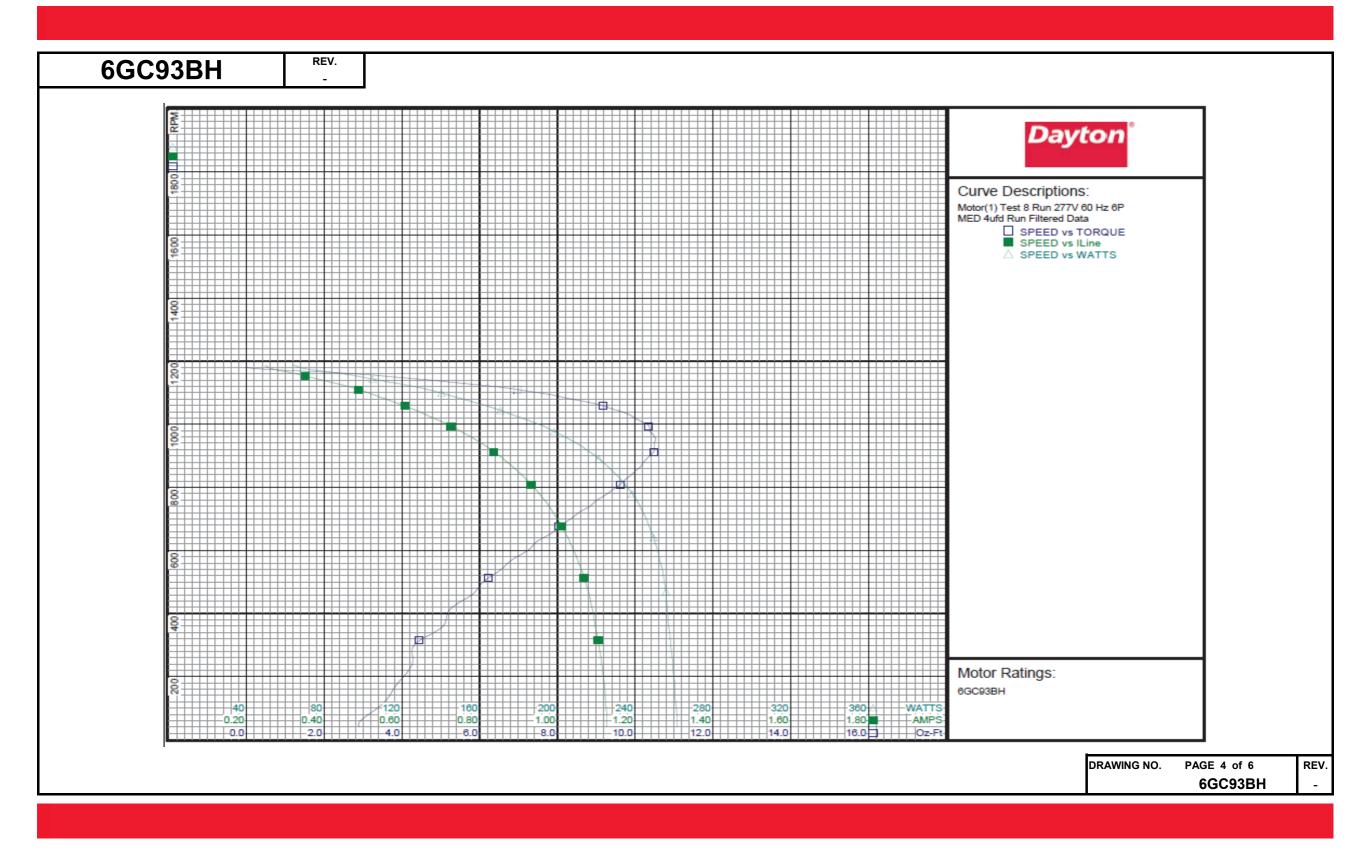






6GC93BH	REV.									
	<u> </u>			1	Daytor	n Manuf	facturing	Сотр	any Filtered	
Motor Des	cription					Test Co	nditions		Increa	
Model:	6GC93BH			Test Type:	Run	Test Co	Run Ca	n.	4	
Motor ID:	2 of 3			Test Number:	8		Start Ca	-	0µfd	
Poles:	6			Poles:	6		Enviror		σμια	
Volts:	277			Volts:	277		Tested:		2/3/2016 4:18:	12 DM
	60			Hz:	60		Tested		Liu, Bingmin	12 111
Frequency: HP:	1/6			Rotation:	00		Gear R		1:1	
	1075									
Speed: Phase:	1075			Special Cond:	MED				: -0.70 Oz-Ft	
Protector:	7AM036-A5			Speed Conn: TestBoard:		Plotter Fiz		ge 101que	: -1.06 Oz-Ft	
					-					
Special Points	Vline(V) 277.0	Vaux(V) 246.5	Vcap(V) 372.2	11ine(A) 0.247	Watts 64.2	RPM 1186	Tq(Oz-ft) 0.000	HP 0.000	Eff(%) 0.0	PF(%) 0.0
	277.0	245.5	371.5	0.255	67.0	1181	-0.015	0.000		0.0
	277.0	238.6	360.0	0.303	82.5	1166	1.865	0.026		0.0
	277.0	229.6	345.0	0.356	97.6	1152	3.630	0.050		0.0
	277.0 277.0	222.8 215.6	333.7 323.5	0.403	110.1 123.8	1137 1122	4.932 6.175	0.067	45.4	0.0
	277.0	207.2	314.6	0.496	135.4	1107	7.131	0.083	51.8	0.0
	277.0	199.2	306.3	0.534	145.0	1091	7.952	0.103	53.1	0.0
1075 RPM	277.0	192.2	298.5	0.569	154.1	1075	8.567	0.110	53.1	0.0
	277.0 277.0	191.2	297.4 289.2	0.575	155.5 166.9	1073 1052	8.674 9.325	0.111 0.117	53.1 52.2	0.0
	277.0	174.0	282.0	0.660	176.5	1032	9.833	0.121	51.0	0.0
	277.0	165.3	275.9	0.701	186.5	1009	10.153	0.122	48.8	0.0
	277.0	156.6	273.9	0.742	195.9	984	10.375	0.122	46.3	0.0
BDT OZ-FT	277.0 277.0	148.5 147.0	266.1 264.6	0.781 0.788	204.6 206.2	958 952	10.511 10.528	0.120 0.119	43.7 43.2	0.0
BD1 02-F1	277.0	140.7	259.9	0.818	212.6	929	10.495	0.116	40.7	0.0
	277.0	132.6	256.1	0.854	220.0	897	10.346	0.110	37.4	0.0
	277.0	124.8	252.9	0.888	226.6	862	10.115	0.104	34.2	0.0
	277.0 277.0	117.5	250.3 248.5	0.920 0.951	232.6 238.1	825 783	9.740 9.322	0.096	30.7 27.2	0.0
	277.0	103.6	240.3	0.979	242.5	739	8.824	0.078		0.0
	277.0	97.3	246.4	1.004	246.2	692	8.235	0.068	20.5	0.0
	277.0	91.6	246.5	1.027	249.5	640	7.640	0.058	17.4	0.0
	277.0 277.0	86.4 81.4	246.6 247.3	1.047 1.066	252.1 254.4	585 526	7.036 6.392	0.049		0.0
	277.0	77.0	248.0	1.081	255.9	462	5.826	0.032		0.0
	277.0	73.5	249.6	1.093	256.8	394	5.154	0.024	7.0	0.0
	277.0	70.7	251.8	1.104	258.0	322	4.554	0.017		0.0
	277.0	68.6	254.1	1.114	259.3	245	4.269	0.012		0.0
	277.0 277.0	67.1 66.2	256.4 259.2	1.122 1.127	260.4 261.4	162 75	3.788 3.084	0.007 0.003		0.0
									DRAWING NO.	PAGE 3 of 6
										6GC93BH

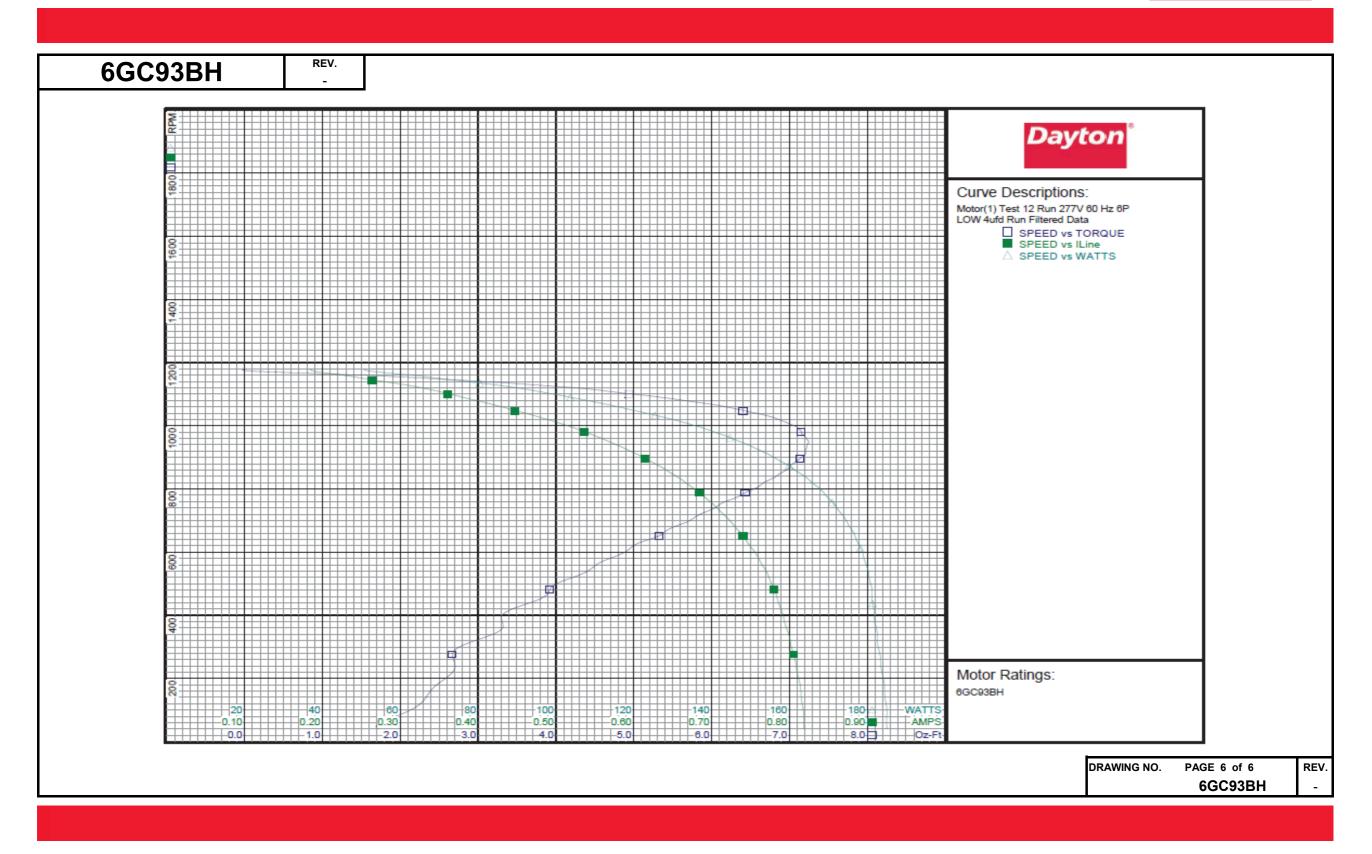






					Dayto	n Manuf	acturing	Comp					
Motor Des	cription					Test Cor	ditions		Filtered				
Model:	6GC93BH			Test Type:	Run	1030 001	Run Caj	p:	4				
Motor ID:	2 of 3			Test Numbe			Start Ca	-	0µfd				
Poles: Volts:	6 277			Poles: Volts:	6 277		Environ Tested:		2/3/2016 4:07	7-40 PM			
Frequency:	60			Hz:	60		Tested I		Liu, Bingmin				
HP:	1/6			Rotation:			Gear Ra	atio:	1:1				
Speed:	1075			Special Con					: -0.90 Oz-Ft				
Phase: Protector:	7AM036-A5			Speed Conn TestBoard:		Plotter Fix		e rorque	:: -1.12 Oz-Ft				
Special Points	Vline(V)	Vaux (V)	Vcap(V)	Iline(A)	Imain(A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)	Cap
	277.0	210.6	314.2	0.185	0.178	0.005	50.80	1179	0.000	0.000	0.0	0.0	0.0
	277.0 277.0	209.6 200.0	312.8 297.6	0.189 0.230	0.183	0.005	52.15 64.09	1173 1158		0.001 0.023	2.5 26.5	0.0	0.0
	277.0	190.5	282.0	0.268	0.263	0.005	74.27	1144	2.785	0.038	38.5	0.0	ŏ.ŏ
	277.0	183.7	271.6	0.307	0.301	0.004	84.53	1129		0.050	44.2	0.0	0.0
	277.0 277.0	177.1 170.4	264.1 257.2	0.339 0.367	0.334 0.362	0.004	92.95 100.23	1114 1098		0.060 0.066	47.9 49.2	0.0	0.0
	277.0	163.7	250.4	0.396	0.391	0.004	107.53	1081	5.612	0.072	50.1	0.0	0.0
1075 RPM	277.0	161.4	248.0	0.406	0.401	0.004	110.02	1075		0.074	50.2	0.0	0.0
	277.0 277.0	156.9 149.5	243.7 237.4	0.425 0.457	0.420	0.004	114.78 122.48	1063 1042		0.077 0.081	50.3 49.3	0.0	0.0
	277.0	149.5	231.3	0.489	0.485	0.004	130.06	1042		0.081	49.3	0.0	0.0
	277.0	134.5	225.7	0.520	0.516	0.004	136.92	996		0.084	45.8	0.0	0.1
	277.0	127.7	220.9	0.547	0.543	0.004	142.96	971		0.083	43.3	0.0	0.1
BDT OZ-FT	277.0 277.0	122.3 121.0	217.6 216.9	0.569 0.574	0.566 0.571	0.005	147.45 148.66	949 943		0.082 0.081	41.4 40.8	0.0	0.1 0.1
	277.0	114.2	213.4	0.601	0.598	0.005	154.02	913		0.078	37.9	0.0	0.1
	277.0	107.7	210.4	0.627	0.624	0.005	158.91	880	7.042	0.074	34.6	0.0	0.1
	277.0	101.4	208.0	0.652	0.649	0.005	163.41	844		0.069	31.4	0.0	0.1
	277.0 277.0	95.2 89.6	206.4 205.4	0.675	0.673	0.006	167.41 170.66	804 762		0.063	28.1 24.6	0.0	0.1
	277.0	84.1	204.7	0.716	0.714	0.006	173.67	716		0.050	21.3	0.0	0.1
	277.0	79.1	204.6	0.735	0.732	0.006	176.18	667		0.043	18.2	0.0	0.1
	277.0 277.0	74.5 70.4	204.8 205.7	0.751 0.766	0.749 0.764	0.007	178.24 179.84	613 556		0.036	15.1 12.3	0.0	0.1
	277.0	66.5	205.7	0.778	0.764	0.007	180.96	495		0.030	9.6	0.0	0.1
	277.0	63.2	207.8	0.787	0.786	0.008	181.51	429	3.548	0.018	7.5	0.0	0.1
	277.0	60.5	209.6	0.796	0.794	0.008	182.30	359		0.014	5.8	0.0	0.1
	277.0 277.0	58.6 57.3	211.5 213.4	0.804 0.811	0.802	0.008	183.09 184.03	284 205		0.009	3.7 2.6	0.0	0.1
	277.0	56.7	215.4	0.816	0.815	0.009	184.80	120		0.003	1.3	0.0	0.1

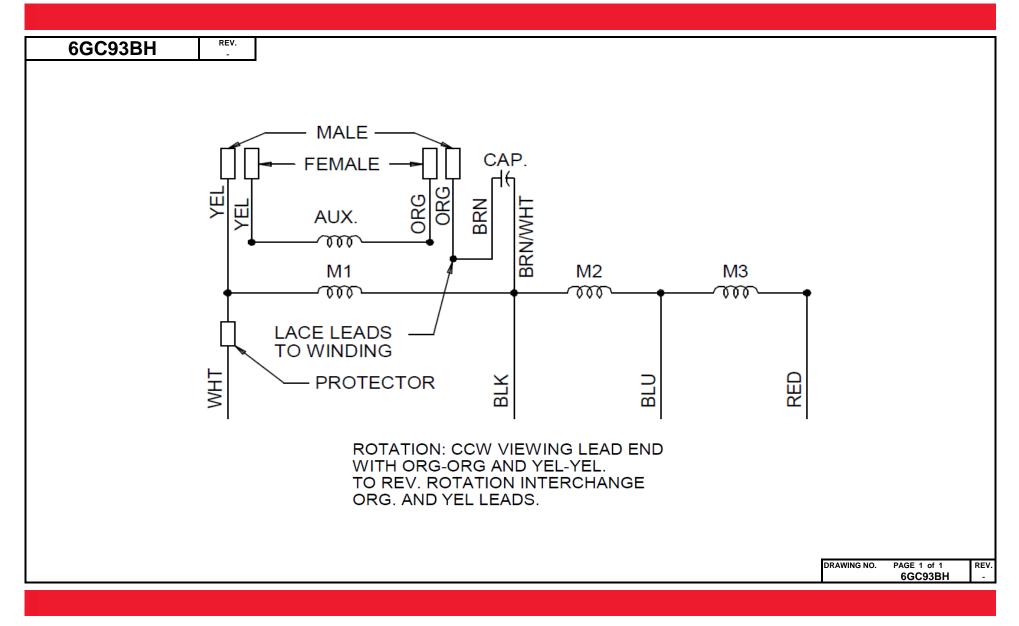




#### Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

#### **Wiring Diagram**





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