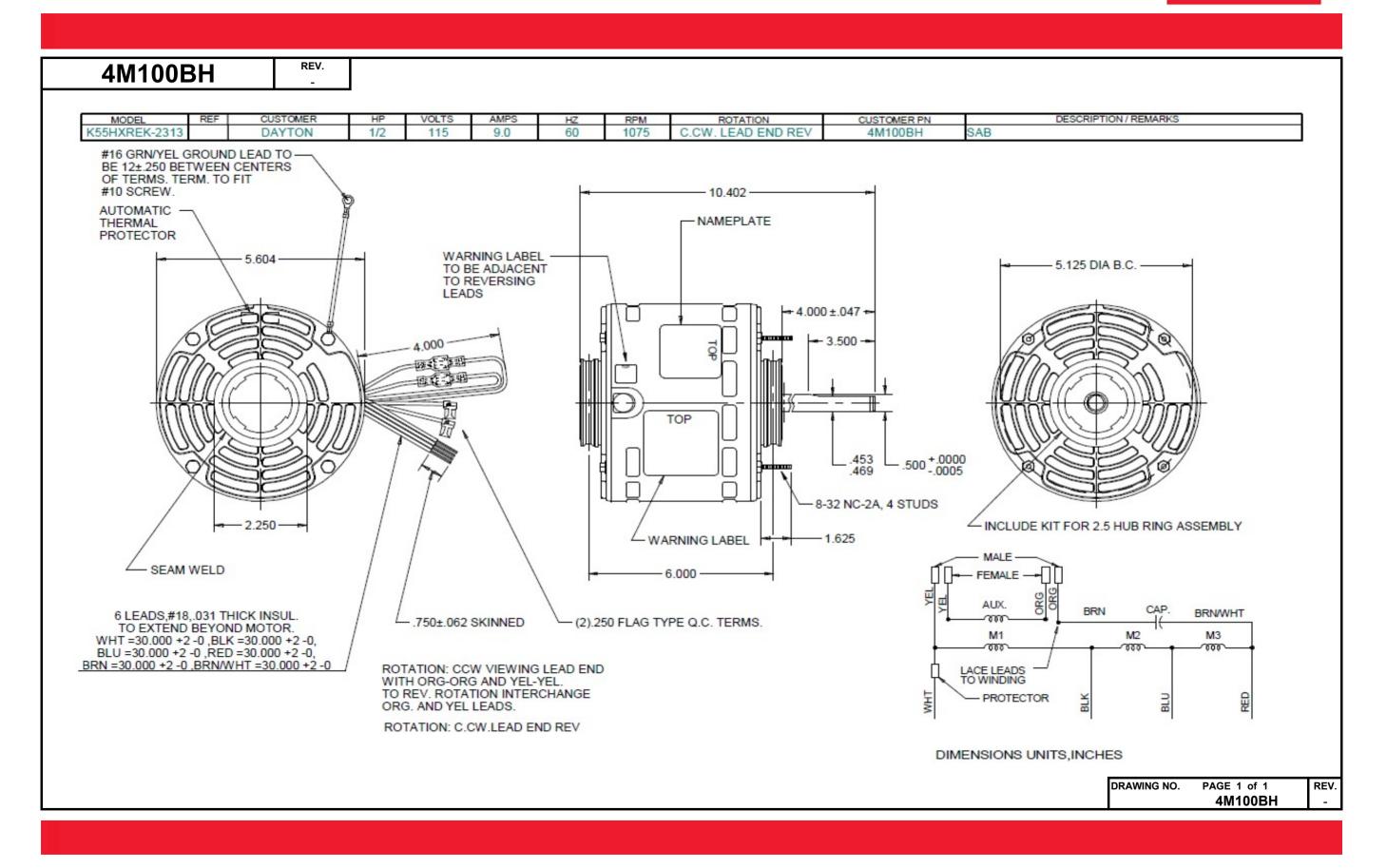
Dimensional Drawing







4M100B	REV.							
			TOD					
	SHADED-POLE	& PSC MC	TOR	PERFC	RMAN	ICE		
HP:	1/2							
Poles:	6							
Ambient (°C):	40							
Altitude (FASL):	1000							
No. of Speeds:	3							
		HIGH SPI	EED					
Volts:	115	115	208	230	277	460	100	200
HZ:	60	60	60	60	60	60	50	50
Service Factor:	1.0							
Efficiency:	@ Rated Load	59.1						
Power Factor:	@ Rated Load	78.5						
Amps:	@ No Load	6.3						
-	@ Rated Load	10.8						
	@ Locked Rotor	22						
RPM:	@ Rated Load	1075						
Torques:	Breakdown	66.9						
Oz.Ft.	Locked Rotor	6.5						
	Pull-Up							
	Rated Load	60.4						
	Service Factor	1.0						
Watts:	Rated Load	975						
Temperature Rise:	@ Rated Load							
Thermal Protector:	Trip Temp (°C)	140~150						
Winding Material:	Start (Auxiliary)	Copper						
	Run (Main)	Copper						
Capacitor:	Run (MFD / Volts)	5.0 MFD 3	370V					
	No. of Run Capacitors	1						
	Μ	EDIUM-HIGI		ED				
HP:	1/2			-	-			
Volts:	115	115	208	230	277	460	100	200
HZ:	60	60	60	60	60	60	50	50
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load	3.3						
	@ Rated Load							
	@ Locked Rotor							
Torques:	Breakdown	34.4						
Oz.Ft.	Locked Rotor	2.2						
	Pull-Up							
	Rated Load							
Watts:	Rated Load							
Temperature Rise:	@ Rated Load							
							DRAWING N	O. PAGE
							DRAWING N	4M100BH



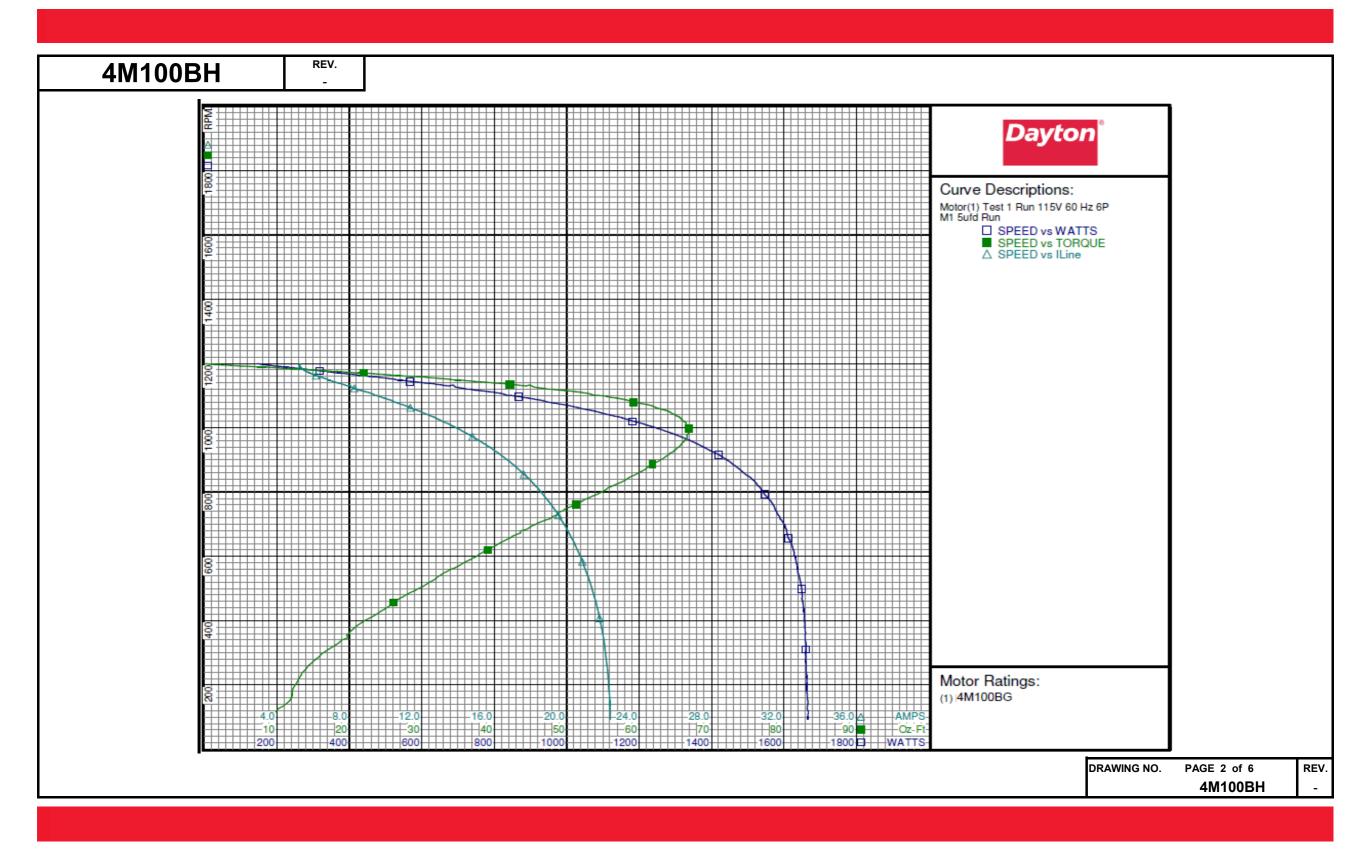
REV. 4M100BH SHADED-POLE & PSC MOTOR PERFORMANCE **MEDIUM-LOW SPEED** 1/2 HP: 230 277 100 Volts: 115 115 208 460 200 HZ: 60 60 60 60 60 60 50 50 Efficiency: @ Rated Load **Power Factor:** @ Rated Load Amps: @ No Load @ Rated Load Breakdown **Torques:** Locked Rotor Oz.Ft. Pull-Up Rated Load Watts: Rated Load **Temperature Rise:** @ Rated Load Watts: Rated Load **Temperature Rise:** @ Rated Load **Thermal Protector:** Trip Temp (°C) Winding Material: Start (Auxiliary) Run (Main) LOW SPEED HP: 1/2Volts: 115 120 208 230 277 460 100 200 HZ: 60 60 60 60 60 60 50 50 Efficiency: @ Rated Load **Power Factor:** @ Rated Load @ No Load 2.6 Amps: @ Rated Load Breakdown 26.3 **Torques:** 1.5 Locked Rotor Oz.Ft. Pull-Up Rated Load Watts: Rated Load **Temperature Rise:** @ Rated Load Notes: DRAWING NO. PAGE 1 REV. 4M100BH



M100BH	REV. -									
				Day	ton Ma	nufactu	ring Con	npany		
Motor Des	cription					Test Cor	nditions			
Model:	4M100BG			Test Type:	Run		Run Ca	p:	5	
Motor ID:	5490			Test Number:	1		Start Ca		Oµfd	
Poles:	6			Poles:	6		Enviror			
Volts:	115			Volts:	115		Tested:		8/23/2000 6:11	:40 PM
Frequency:	60			Hz:	60		Tested		Crocker, Jason	
HP:	1/2			Rotation:	MI		Gear Ra		1:1 0.45 Or Et	
Speed: Phase:	1075 1			Special Cond: Speed Conn:	MI				-0.45 Oz-Ft : -1.08 Oz-Ft	
Protector:	1			TestBoard:	Amtps P	erformance	Fixture #3	e rorque	1.08 OZ-Ft	
Special Points	Vline(V)	Vaux (V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF (%)
	115.0 115.0	385.9 380.6	428.6 421.6	5.29	143.5 196.3	1199 1192	0.00	0.000	0.0 27.5	23.6 32.4
	115.0	374.6	413.5	5.35	249.0	1186	10.30	0.145	43.5	40.5
	115.0	367.7	404.4	5.54	311.3	1178	16.21	0.227	54.5	48.9
	115.0 115.0	360.3 350.6	394.3 382.5	5.87 6.35	384.8 465.9	1169 1159	22.71 29.34	0.316	61.2 64.8	57.0 63.8
	115.0	340.2	370.1	6.92	545.8	1148	35.37	0.483	66.1	68.6
0.5 HP	115.0	338.2	367.8	7.03	561.6	1145	36.68	0.500	66.4	69.5
	115.0 115.0	327.0 312.9	354.9 339.1	7.65	642.4 735.6	1135 1119	42.19 48.15	0.570	66.2 65.1	73.0 75.6
	115.0	296.4	321.3	9.41	835.5	1100	53.88	0.706	63.0	77.2
1075 000	115.0	279.5	302.7	10.41	938.2	1083	58.80	0.758	60.3	78.4
1075 RPM	115.0 115.0	273.4 260.5	296.1 282.8	10.77 11.50	975.1 1042.2	1075 1059	60.36 62.76	0.772 0.791	59.1 56.6	78.8 78.8
	115.0	240.3	262.4	12.63	1142.3	1034	65.53	0.807	52.7	78.6
BDT OZ-FT	115.0	220.6	243.2		1231.8	1005	66.65	0.797	48.3	78.0
BDT OZ-FT	115.0 115.0	216.2 200.4	239.2 224.6		1251.2 1315.3	997 972	66.87 66.67	0.794 0.771	47.3 43.7	77.9 77.2
	115.0	181.1	208.0	15.82	1383.3	937	65.28	0.728	39.3	76.0
	115.0	163.1	193.6		1443.3	900	62.96 59.96	0.674	34.9	75.0 73.7
	115.0 115.0	147.2 133.4	182.4 173.5		1488.4 1526.9	860 821	56.56	0.614	30.8 27.0	72.8
	115.0	120.5	166.6	18.88	1557.3	779	52.78	0.490	23.4	71.7
	115.0 115.0	109.5	161.8 158.7		1579.6 1603.2	738 695	49.03	0.431 0.374	20.3	70.7 70.0
	115.0	91.8	157.1		1616.1	648	41.35	0.319	14.7	69.0
	115.0	84.4	156.1		1631.9	600	37.60	0.269	12.3	68.4
	115.0 115.0	78.2 72.3	156.6 157.1		1638.4 1649.8	547 492	33.01 28.94	0.215	9.8 7.7	67.5 66.9
	115.0	67.9	158.9		1654.1	435	24.86	0.129	5.8	66.2
	115.0	63.8	160.8		1658.1	375	20.62	0.092	4.1	65.7
	115.0 115.0	61.7 61.0	163.2 166.6		1660.6 1661.2	310 243	17.14 13.79	0.063	2.8	65.3 64.9
	115.0	61.8	170.0	22.36	1664.0	173	12.09	0.025	1.1	64.7
	115.0	63.3	173.3	22.42	1665.8	102	9.38	0.011	0.5	64.6
									DRAWING NO.	PAGE 1 of 6
										4M100E

Performance Data



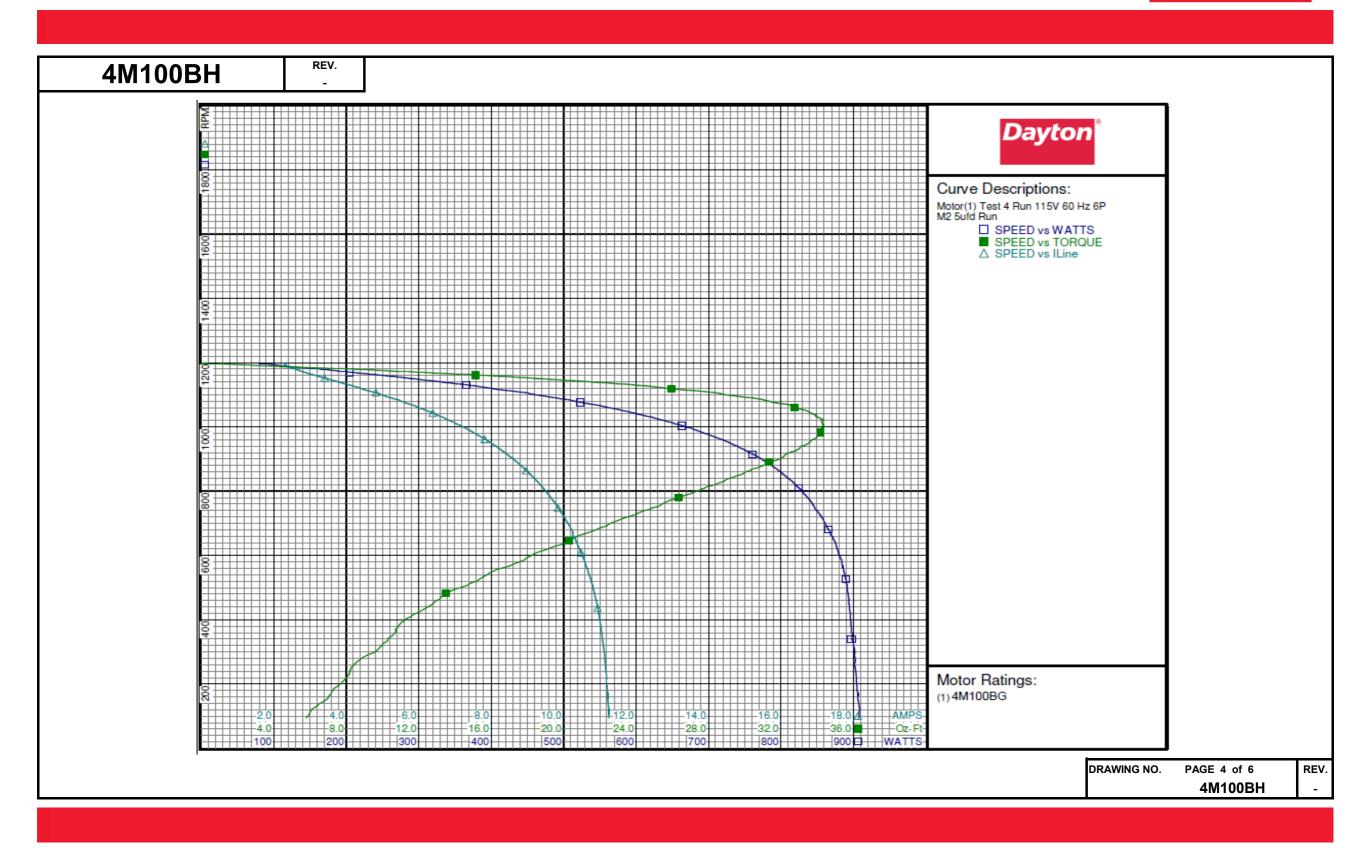




4M100BH	REV. -									
				Dayt	ton Ma	nufactu	ring Con	ipany		
Motor Des	cription					Test Cor	nditions			
Model:	4M100BG			Test Type:	Run		Run Ca	p:	5	
Motor ID:	5490			Test Number:	4		Start Ca	ap:	0µfd	
Poles:	6			Poles:	6		Environ			
Volts:	115			Volts:	115		Tested:		8/23/2000 6:17	:29 PM
Frequency:	60			Hz:	60		Tested 1	By:	Crocker, Jason	L
HP:	1/2			Rotation:			Gear Ra		1:1	
Speed:	1075			Special Cond:	M2		Bearing	Friction:	-0.36 Oz-Ft	
Phase:	1			Speed Conn:				ge Torque:	: -0.95 Oz-Ft	
Protector:				TestBoard:	Amtps P	erformance	Fixture #3			
Special Points	Vline(V)	Vaux (V)	Vcap (V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	301.5	341.8	2.293	79.2	1197	0.00	0.000	0.0	30.0
	115.0	293.0	330.4	2.358	114.1	1189	3.59	0.051	33.2	42.1
	115.0 115.0	284.0 278.1	316.9 308.0	2.573	160.5 200.0	1181 1172	8.05	0.113	52.6 59.6	54.2 62.0
	115.0	268.9	295.7	3.142	250.5	1160	15.69	0.217	64.5	69.3
	115.0	258.3	283.1	3.538	299.4	1148	19.28	0.263	65.7	73.6
	115.0	247.7	269.9	3.957	352.5	1134	22.99	0.310	65.7	77.5
	115.0 115.0	235.7 222.8	256.6 242.3	4.430 4.938	403.1 457.2	1118 1102	25.97	0.346	64.0 61.7	79.1 80.5
	115.0	210.4	228.6	5.444	507.7	1084	31.01	0.400	58.8	81.1
1075 RPM	115.0	205.7	223.5	5.630	526.9	1075	31.70	0.406	57.4	81.4
	115.0	197.8	215.3	5.941	556.2	1063	32.67	0.413	55.4	81.4
	115.0 115.0	184.6 171.7	201.9 189.6	6.447 6.936	602.6 645.3	1040 1015	33.78 34.26	0.418	51.7 47.9	81.3 80.9
BDT OZ-FT	115.0	164.7	183.4	7.200	667.2	1001	34.40	0.410	45.8	80.6
	115.0	159.5	178.6	7.391	682.9	990	34.29	0.404	44.1	80.3
	115.0	147.7	168.5	7.824	717.1	962	33.80	0.387	40.3	79.7
	115.0 115.0	136.4 125.6	159.9 152.3	8.222 8.596	746.0 772.1	932 902	33.02 31.96	0.366	36.6 33.1	78.9 78.1
	115.0	115.6	145.9	8.935	794.5	868	30.39	0.314	29.5	77.3
	115.0	106.4	141.0	9.242	813.3	834	28.92	0.287	26.3	76.5
	115.0	97.8	137.1	9.526	829.9	797	27.24	0.259	23.2	75.8
	115.0 115.0	89.2 81.6	133.9 131.9	9.793 10.037	844.3 857.2	757 716	25.35	0.229	20.2	75.0 74.3
	115.0	74.5	130.6	10.262	868.6	671	21.37	0.171	14.6	73.6
	115.0	68.1	130.2	10.424	877.1	624	19.31	0.144	12.2	73.2
	115.0	61.8	130.1	10.602	883.8	574	17.29	0.118	10.0	72.5
	115.0 115.0	56.0 50.8	130.0 130.5	10.761 10.888	890.3 894.1	521 463	15.23	0.094	7.9	71.9 71.4
	115.0	44.9	131.6	10.994	896.3	403	11.33	0.054	4.5	70.9
	115.0	41.1	134.0	11.072	897.3	341	10.30	0.042	3.5	70.5
	115.0	39.3	137.4	11.141	902.5	275	8.75	0.029	2.4	70.4
	115.0 115.0	37.9 37.1	139.3 141.5	11.191 11.240	904.2 907.7	204 130	7.76 6.34	0.019	1.6	70.3 70.2
									DRAWING NO.	PAGE 3 of 6
										4M100BH

Performance Data



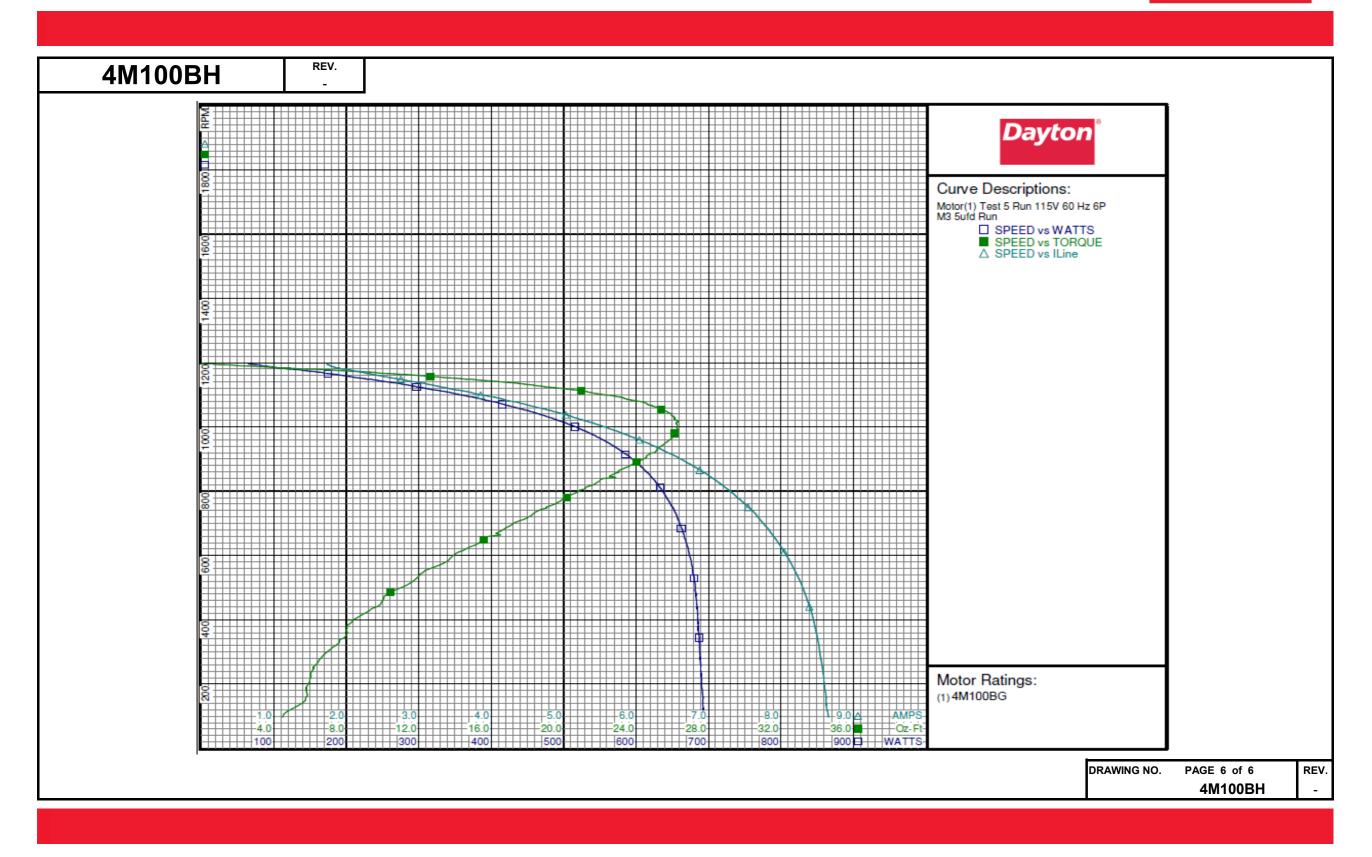




4M100BH	REV. -									
				Dayt	on Ma	anufactu	ring Con	npany		
Motor Des	cription		_			Test Cor	nditions			
Model: Motor ID:	4M100BG 5490			Test Type: Test Number:	Run 5		Run Ca Start Ca		5 Oµfd	
Poles: Volts: Frequency:	6 115 60			Poles: Volts: Hz:	6 115 60		Enviror Tested: Tested	By:	8/23/2000 6:22 Crocker, Jason	
HP: Speed: Phase:	1/2 1075 1			Rotation: Special Cond: Speed Conn:	M3			g Friction:	1:1 -0.58 Oz-Ft : -1.01 Oz-Ft	
Protector:	-			TestBoard:	Amtps I	Performance	Fixture #3			
Special Points	Vline (V) 115.0	Vaux (V) 267.1	Vcap(V) 306.1	1.734	Watts 64.8	RPM 1196	Tq(Oz-ft) 0.00	HP 0.000	Eff(%) 0.0	PF(%) 32.5
	115.0 115.0 115.0	258.8 251.7 244.7	293.9 280.9 271.3	1.810 2.037 2.265	93.7 135.6 170.2	1187 1178 1167	3.10 6.97 9.89	0.044 0.098 0.137	34.9 53.8 60.2	45.0 57.9 65.3
	115.0 115.0 115.0	236.2 227.6 217.0	259.7 248.6 235.8	2.559 2.859 3.230	208.4 247.3 289.7	1156 1143 1128	13.05 15.95 18.53	0.180 0.217 0.249	64.3 65.5 64.1	70.8 75.2 78.0
	115.0 115.0 115.0	206.8 196.8 186.3	223.6 212.3 200.9	3.599 3.953 4.326	329.3 366.4 404.3	1112 1096 1078	20.99 22.82 24.33	0.278 0.298 0.312	63.0 60.6 57.6	79.6 80.6 81.3
1075 RPM	115.0 115.0	184.5 175.2	198.9 189.2	4.390 4.711	409.8 439.8	1075 1057	24.50 25.37	0.314 0.319	57.1 54.1	81.2 81.2
BDT OZ-FT	115.0 115.0 115.0	164.4 155.4 154.2	178.7 170.0 168.9	5.072 5.361 5.398	472.8 499.7 502.8	1035 1014 1013	25.96 26.33 26.23	0.320 0.318 0.316	50.5 47.5 46.9	81.1 81.1 81.0
	115.0 115.0 115.0	143.6 133.9 124.5	159.7 151.5 144.7	5.737 6.048 6.332	530.1 554.2 575.0	987 960 932	26.17 25.86 25.15	0.308 0.295 0.279	43.3 39.8 36.2	80.3 79.7 79.0
	115.0 115.0 115.0	115.8 107.0 98.9	138.6 133.3 129.3	6.604 6.854 7.088	594.1 610.2 624.6	901 869 836	24.45 23.28 22.03	0.262 0.241 0.219	32.9 29.5 26.2	78.2 77.4 76.6
	115.0 115.0	91.2 84.0	126.1 123.6	7.303 7.503	636.6 647.6	799 760	20.87 19.50	0.199 0.176	23.3 20.3	75.8 75.0
	115.0 115.0 115.0	77.0 70.8 65.0	122.0 121.3 121.1	7.686 7.851 8.004	656.9 664.5 671.4	718 674 626	18.03 16.47 14.82	0.154 0.132 0.110	17.5 14.8 12.3	74.3 73.6 72.9
	115.0 115.0 115.0	59.2 53.8 48.5	121.0 121.3 121.6	8.138 8.255 8.354	676.5 680.3 682.8	576 524 467	13.39 11.79 10.07	0.092 0.073 0.056	10.1 8.1 6.1	72.3 71.7 71.1
	115.0 115.0 115.0	43.4 39.3 36.8	122.8 124.6 126.6	8.441 8.502 8.553	685.2 687.4 688.4	406 344 276	8.61 7.91 6.53	0.042 0.032 0.021	4.5	70.6 70.3 70.0
	115.0 115.0	34.3 33.0	128.7	8.596 8.626	690.4 692.5	207 132	5.98	0.015	1.6	69.8 69.8
									DRAWING NO.	PAGE 5 of 6
										4M100BH

Performance Data





Wiring Diagram



