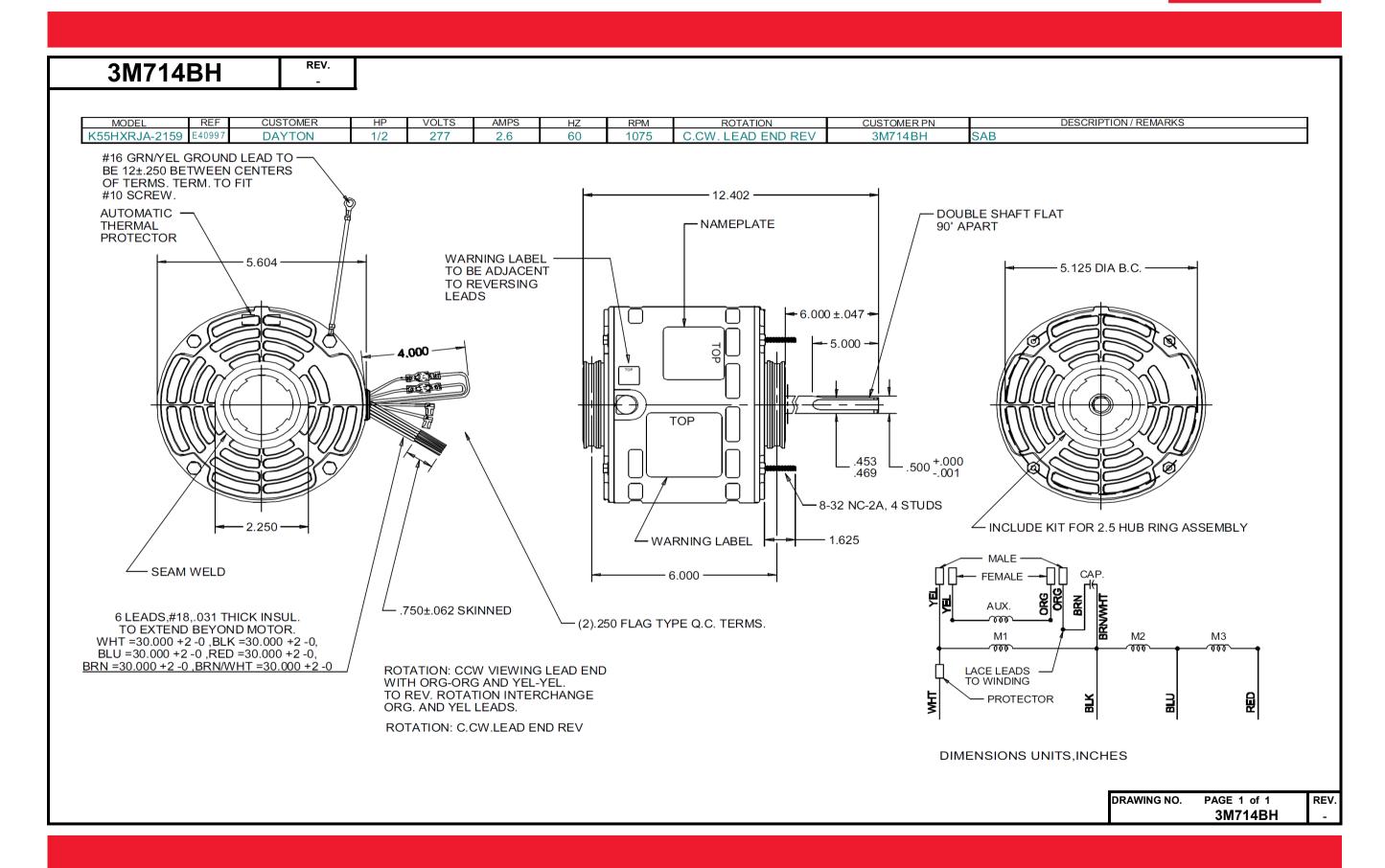
Dimensional Drawing







REV.							
SHADED-POLE &	PSC MO	OTOR	PERFO	ORMAN	CE		
1/2							
, and the second	HIGH SE	PEED					
277	120	208	230	277	460	100	200
60	60	60	60	60	60	50	50
1							
@ Rated Load				59.4			
<u> </u>							
				2.6			
<u> </u>							
				1075			
Breakdown							
Locked Rotor							
·							
				1			
				644			
				140~150			
· · · · · · · · · · · · · · · · · · ·							
` /		L	6) V	<u>I</u>	
				1	,		
'		H SDEI	-D	•			
1/2		III OI LI					
277	120	208	230	277	460	100	200
60	60	60	60	60	60	50	50
@ Rated Load				57.6			
@ Rated Load				89.7			
@ No Load							
				1.8			
@ Locked Rotor							
Breakdown				30.6			
Locked Rotor		1					
Pull-Up							
Rated Load		1					
Rated Load							
				1			
	SHADED-POLE & 1/2 4 40 1000 3 277 60 1 @ Rated Load @ Rated Load @ No Load @ Rated Load @ Locked Rotor @ Rated Load Breakdown Locked Rotor Pull-Up Rated Load Service Factor Rated Load G Rated Load Trip Temp (°C) Start (Auxiliary) Run (Main) Run (MFD / Volts) No. of Run Capacitors ME 1/2 277 60 @ Rated Load @ Rated Load @ Rated Load @ Ro Load @ Rated Load @ Rated Load @ Rated Load @ Rated Load @ Rated Load @ Rated Load @ Rated Load @ Rated Load @ Rated Load @ Rated Load @ Rated Load @ Ro Load @ Rated Load @ Locked Rotor Breakdown Locked Rotor Breakdown Locked Rotor Pull-Up Rated Load	SHADED-POLE & PSC MO 1/2 4 40 1000 3 HIGH SP 277 120 60 60 1 @ Rated Load @ Rated Load @ No Load @ Rated Load @ Locked Rotor @ Rated Load Breakdown Locked Rotor Pull-Up Rated Load Service Factor Rated Load @ Rated Load Trip Temp (°C) Start (Auxiliary) Run (Main) Run (MFD / Volts) No. of Run Capacitors MEDIUM-HIG 1/2 277 120 60 60 @ Rated Load @ Rated Load @ Rated Load @ Ro Load @ Ro Load @ Rated Load @ Ro Load @ Rated Load @ Rated Load @ Rated Load @ Ro Load @ Rated Load @ Rated Load @ Ro Load @ Rated Load @ Rated Load @ Rated Load @ Rated Load	1/2	1/2	SHADED-POLE & PSC MOTOR PERFORMAN	1/2	1/2

3M714BH -



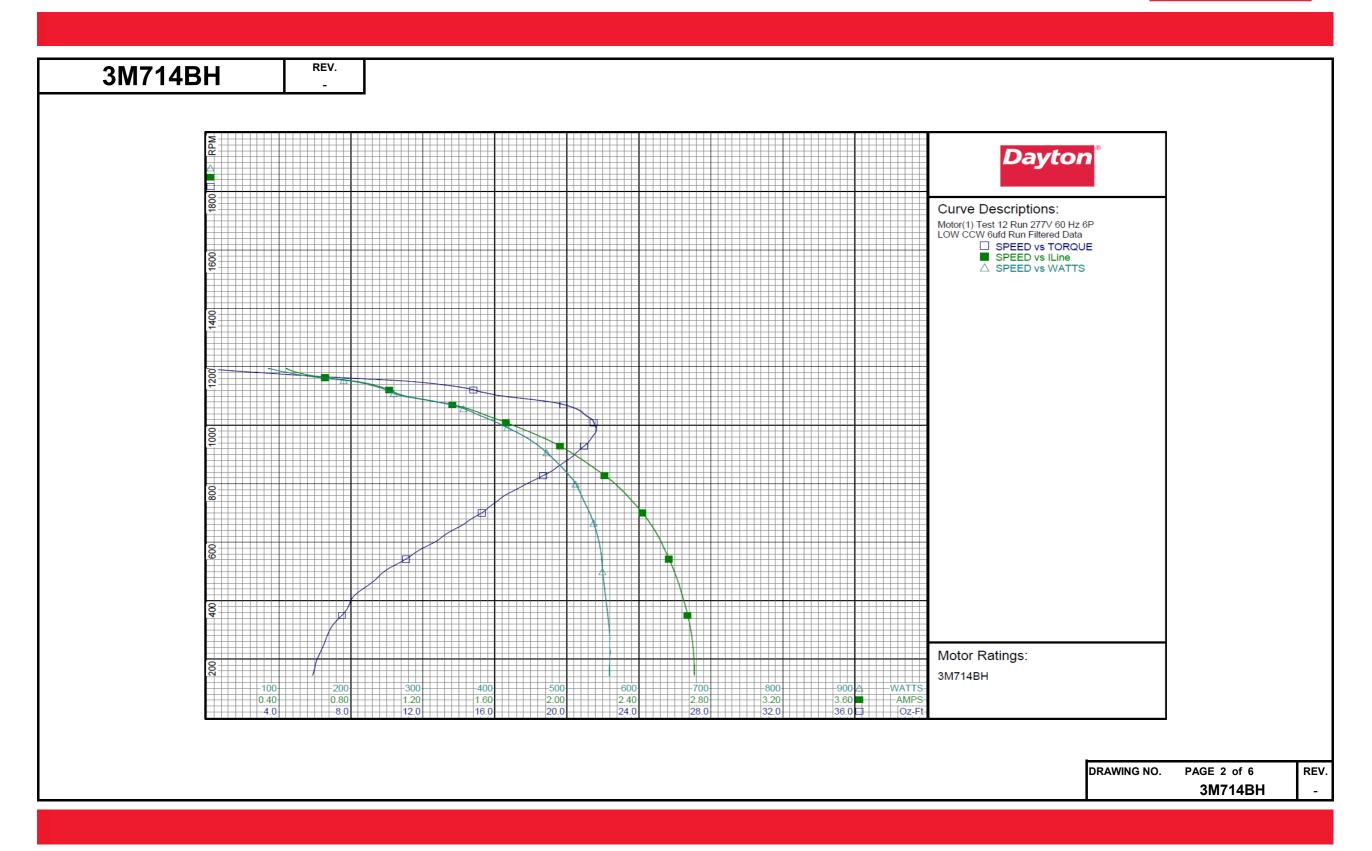
REV. 3M714BH **SHADED-POLE & PSC MOTOR PERFORMANCE MEDIUM-LOW SPEED** HP: 1/2 Volts: 277 120 208 230 277 460 100 200 HZ: 60 60 60 60 **50** 50 60 60 Efficiency: @ Rated Load **Power Factor:** @ Rated Load @ No Load Amps: @ Rated Load Breakdown **Torques:** Locked Rotor Oz.Ft. / Lb.ln. Pull-Up (Circle One) 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: 1/2 277 120 208 230 100 200 Volts: 277 460 HZ: 60 60 60 60 60 60 50 50 Efficiency: @ Rated Load 56.6 **Power Factor:** @ Rated Load 89.5 Amps: @ No Load @ Rated Load 1.3 **Torques:** Breakdown 21.6 Locked Rotor 4 Oz.Ft. / Lb.In. Pull-Up 4.5 (Circle One) Rated Load 19.5 Watts: Rated Load 329 **Temperature Rise:** @ Rated Load Notes: DRAWING NO. PAGE 1 REV.

3M714BH



3M714BH	REV.									
					Daytor	ı Manu	facturing	Comp	any	
					•		J	•	Filtered	
Motor Des	scription					Test Co	nditions			
Model:	3M714BH			Test Type:	Run		Run Ca	p:	6	
Motor ID:	1 of 2			Test Number:	12		Start Ca	ар:	0µfd	
Poles:	6			Poles:	6		Enviror	nment:		
Volts:	277			Volts:	277		Tested:		6/1/2015 9:04	:29 AM
Frequency:	60			Hz:	60		Tested	By:	Liu, Bingmin	
HP:	1/2			Rotation:	CCW		Gear R	•	1:1	
Speed:	1075			Special Cond:			Bearing	Friction:	-0.55 Oz-Ft	
Phase:	1			Speed Conn:	LOW				: -0.84 Oz-Ft	
Protector:	7AM036-A5			TestBoard:		Plotter Fix				
Special Points	Vline(V)	Vaux (V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	НР	Eff(%)	PF(%)
	277.0	258.6	349.4	0.441	85.3	1195	0.00	0.000		0.0
	277.0	255.7	346.0	0.457	93.5	1190	0.68	0.010		0.0
	277.0	245.8	330.5	0.532	121.1	1176	3.90	0.055		0.0
	277.0 277.0	234.8 224.7	309.0 291.2	0.674 0.844	161.1 205.7	1162 1149	7.80 11.54	0.108 0.158		0.0
	277.0	217.2	281.3	0.946	231.7	1135	13.62	0.184	59.3	0.0
	277.0	210.5	274.4	1.025	251.5	1118	15.00	0.200		0.0
	277.0	204.4	268.3	1.098	270.6	1101	16.34	0.214	59.0	0.0
	277.0 277.0	189.6 176.8	251.0 238.2	1.253	310.7 346.8	1083 1065	18.69 20.14	0.241 0.255	57.9 54.9	0.0
	277.0	168.2	230.6	1.505	368.8	1045	20.84	0.259		0.0
	277.0	160.3	223.8	1.599	389.2	1023	21.32	0.260	49.8	0.0
	277.0	151.3	216.7	1.703	411.2	999	21.58	0.257		0.0
BDT OZ-FT	277.0 277.0	146.8 142.1	213.4 210.0	1.755 1.808	421.7 432.4	987 973	21.64 21.58	0.254 0.250		0.0
	277.0	132.7	203.7	1.913	452.3	944	21.22	0.239	39.3	0.0
	277.0	124.1	198.8	2.006	468.9	913	20.66	0.225	35.7	0.0
	277.0	116.2	195.0	2.091	483.5	879	20.00	0.209		0.0
	277.0	108.5	191.7	2.176	497.9	843 803	19.15 17.90	0.192		0.0
	277.0 277.0	100.6 93.2	189.2 187.5	2.261 2.332	511.1 519.9	761	16.58	0.171 0.150		0.0
	277.0	87.6	186.6	2.400	528.9	715	15.58	0.133	18.7	0.0
	277.0	82.1	186.7	2.462	537.3	665	14.36	0.114		0.0
	277.0	76.4	187.5	2.514	543.6	612	12.95	0.094		0.0
	277.0 277.0	71.0 66.1	188.7 190.2	2.559 2.601	547.8 549.9	554 493	11.36 9.72	0.075		0.0
	277.0	61.6	192.0	2.637	553.0	427	8.38	0.043		0.0
	277.0	57.6	193.7	2.669	556.5	357	7.62	0.032	4.3	0.0
	277.0	55.1	196.1	2.693	559.5	282	6.70	0.022		0.0
	277.0	53.0	198.8	2.705	559.7	203	6.15	0.015	2.0	0.0
									DRAWING NO.	PAGE 1 of
										3M714

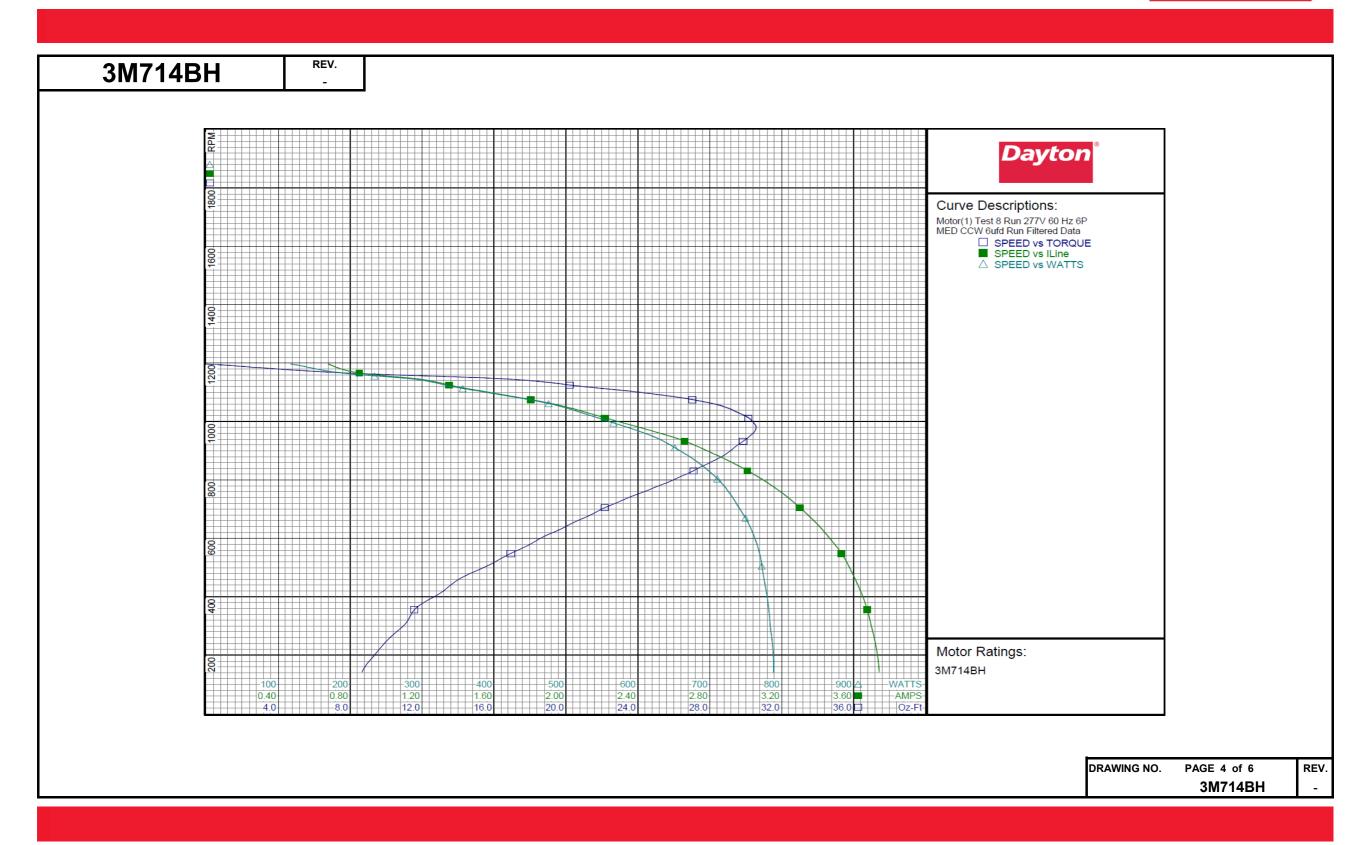






3M714BH	REV.									
				1	Davtor	Manut	facturing	Comp	anv	
				-	Daytor	· ·vianu	actui mg	comp	Filtered	
Motor De	escription					Test Con	nditions			
Model:	3M714BH			Test Type:	Run		Run Ca	p:	6	
Motor ID:	1 of 2			Test Number:	8		Start Ca	ap:	0µfd	
Poles:	6			Poles:	6		Enviror		•	
Volts:	277			Volts:	277		Tested:		6/1/2015 9:08	:43 AM
Frequency:	60			Hz:	60		Tested		Liu, Bingmin	
HP:	1/2			Rotation:	CCW		Gear R		1:1	
Speed:	1075			Special Cond:					-0.52 Oz-Ft	
Phase:	1073			Speed Conn:	MED				: -0.79 Oz-Ft	
	7 4 3 4026 45					Diattan Eis	-	ge 101que	0.79 OZ-Ft	
Protector:	7AM036-A5			TestBoard:	NMQC	Plotter Fix	tture #1			
Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	277.0	295.1	400.1	0.681	117.5	1196	0.00	0.000	0.0	0.0
	277.0	292.6	396.8	0.698	129.6	1192	1.29	0.018	10.1	0.0
	277.0 277.0	286.1 278.9	386.8 372.6	0.759 0.868	156.5 194.9	1178 1164	4.35 8.35	0.061	29.1 44.4	0.0
	277.0	265.2	348.4	1.091	262.4	1151	14.68	0.201	57.4	0.0
	277.0	255.0	333.6	1.257	308.4	1138	18.39	0.249	60.5	0.0
	277.0	246.8	324.0	1.375	338.0	1122	20.66	0.276	60.9	0.0
	277.0	236.1	311.3	1.528	377.9	1105	23.45	0.308	60.9	0.0
107E PPW	277.0	224.1	299.1	1.688	418.7	1087	25.71	0.333	59.3	0.0
1075 RPM	277.0 277.0	216.0 212.7	292.6 289.8	1.804 1.855	448.2 460.8	1075 1069	27.02 27.52	0.346 0.350	57.6 56.7	0.0
	277.0	202.6	280.5	2.005	496.3	1049	28.87	0.361	54.2	0.0
	277.0	193.1	272.7	2.135	525.4	1027	29.69	0.363	51.5	0.0
	277.0	183.3	264.6	2.274	556.5	1003	30.33	0.362	48.5	0.0
BDT OZ-FT	277.0	173.4	257.0	2.414	586.7	979	30.58	0.356	45.3	0.0
	277.0 277.0	172.2 160.8	256.2 248.1	2.429 2.587	590.0 622.0	976 948	30.57 30.20	0.355	44.9 40.9	0.0
	277.0	150.3	242.1	2.723	647.0	917	29.48	0.322	37.1	0.0
	277.0	141.1	237.5	2.844	669.7	883	28.76	0.302	33.7	0.0
	277.0	131.6	233.5	2.964	690.5	847	27.58	0.278	30.0	0.0
	277.0	122.9	230.4	3.076	708.9	808	26.25	0.252	26.6	0.0
	277.0 277.0	113.9 105.5	228.1 226.5	3.181 3.275	724.4 737.0	765 719	24.58 22.72	0.224	23.0 19.7	0.0
	277.0	98.0	225.4	3.363	749.6	669	21.00	0.167	16.6	0.0
	277.0	91.0	225.1	3.444	760.0	617	19.17	0.141	13.8	0.0
	277.0	85.6	225.4	3.518	767.9	560	17.36	0.116	11.2	0.0
	277.0	80.0	226.9	3.578	772.8	499	15.39	0.091	8.8	0.0
	277.0 277.0	74.6 69.5	229.0 231.2	3.628 3.672	777.3 781.7	433 363	13.46 11.70	0.069		0.0
	277.0	65.7	233.7	3.703	784.5	288	10.75	0.037		0.0
	277.0	63.0	237.0	3.730	788.1	209	9.48	0.023	2.2	0.0
									DRAWING NO.	PAGE 3 of 6
										3M714B

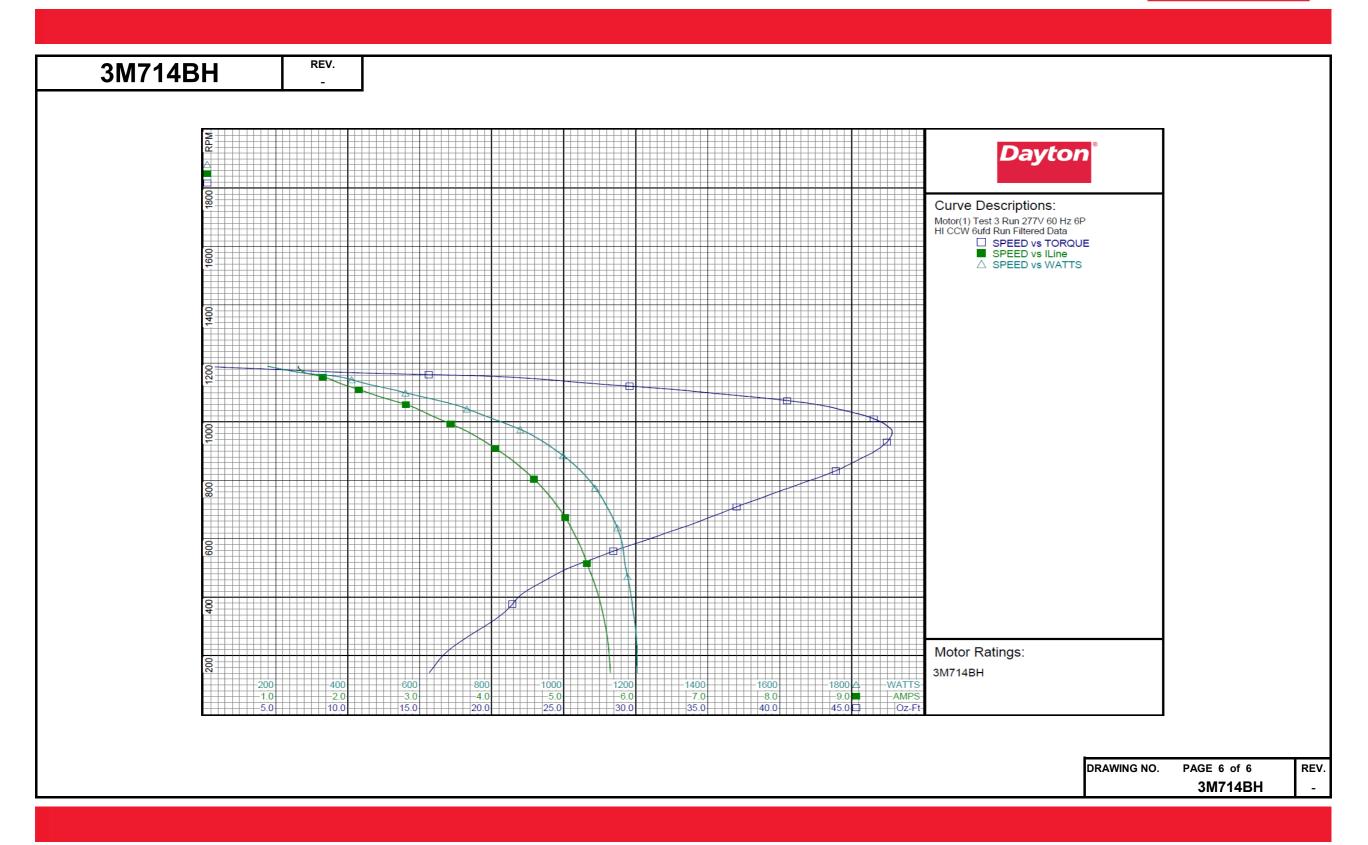






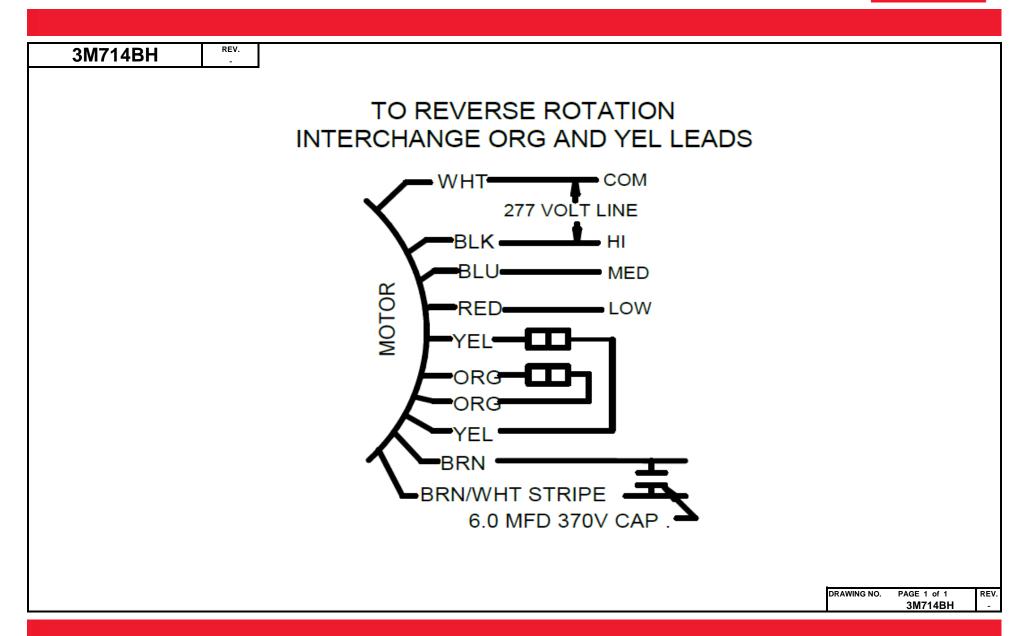
3M714BH	REV.									
					Dayton	n Manu	facturing	Comp	any	
								_	Filtered	
	escription					Test Co	nditions			
Model:	3M714BH			Test Type:	Run		Run Ca	ıp:	6	
Motor ID:	1 of 2			Test Number	: 3		Start C	-	0μfd	
Poles:	6			Poles:	6		Enviro			
Volts:	277			Volts:	277		Tested:		6/1/2015 9:12	:41 AM
Frequency				Hz:	60		Tested		Liu, Bingmin	
HP:	1/2			Rotation:	CCW		Gear R		1:1	
Speed:	1075			Special Cond					-0.57 Oz-Ft	
Phase:	1			Speed Conn:				ge Torque	: -0.84 Oz-Ft	
Protector:	7AM036-A5			TestBoard:	NMQC	Plotter Fix	xture #1			
Special Points	Vline(V)	Vaux (V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	нр	Eff(%)	PF(%)
	277.0 277.0	334.3	465.4 462.4	1.313	178.1	1190	0.00	0.000	0.0	0.0
	277.0	333.5 329.0	453.2	1.316 1.359	194.7 241.1	1185 1174	1.84 7.21	0.101	9.3 31.1	0.0
	277.0	322.5	439.8	1.489	312.4	1162	14.64	0.203	48.4	0.0
	277.0	313.8	425.8	1.677	382.5	1152	21.32	0.293	57.6	0.0
	277.0 277.0	305.8 297.3	415.6 404.6	1.816 1.968	424.5 469.6	1139 1125	24.96 28.62	0.339	59.7 60.9	0.0
	277.0	288.6	394.0	2.157	524.3	1110	32.67	0.432	61.5	0.0
	277.0	280.7	386.3	2.328	572.0	1096	35.82	0.467	60.9	0.0
1075 RPM	277.0 277.0	270.5 268.2	375.5 373.1	2.540 2.591	631.0 643.6	1079 1075	39.37 40.06	0.506 0.513	59.8 59.4	0.0 0.0
10/3 KPM	277.0	259.0	364.5	2.787	690.5	1061	42.35	0.535	57.8	0.0
	277.0	249.2	356.7	2.984	736.1	1042	44.20	0.548	55.5	0.0
	277.0 277.0	240.0 229.2	348.6 340.0	3.171 3.381	782.0 829.8	1020 998	45.97 47.07	0.558 0.559	53.3 50.3	0.0
	277.0	216.9	331.0	3.604	879.8	973	47.75	0.553	46.9	0.0
BDT OZ-FT	277.0	212.8	327.9	3.676	895.5	965	47.81	0.549	45.7	0.0
	277.0	205.0	322.5	3.809	923.4	946	47.67	0.537	43.4	0.0
	277.0 277.0	193.8 183.1	316.4 310.9	3.993 4.176	959.6 994.6	918 888	47.15 46.20	0.515 0.488	40.0 36.6	0.0
	277.0	172.5	306.1	4.351	1027.2	855	44.87	0.457	33.2	0.0
	277.0	162.6	302.2	4.516	1056.6	820	43.28	0.422	29.8	0.0
	277.0 277.0	152.4 142.7	298.8 296.4	4.673 4.817	1082.5 1105.1	782 742	41.15 38.87	0.383	26.4 23.2	0.0
	277.0	133.8	294.8	4.949	1124.8	699	36.52	0.304	20.1	0.0
	277.0	125.1	293.6	5.069	1143.3	653	34.10	0.265	17.3	0.0
	277.0 277.0	116.5 108.5	293.1 293.1	5.174 5.269	1157.9	604 551	31.23 28.14	0.224		0.0
	277.0	100.9	293.1	5.352	1166.4 1172.7	496	25.20	0.149		0.0
	277.0	94.2	293.7	5.439	1182.6	438	23.00	0.120	7.5	0.0
	277.0	89.6	294.4	5.513	1190.3	376	21.45	0.096		0.0
	277.0 277.0	85.8 81.9	297.5 300.7	5.571 5.617	1197.7 1202.9	311 242	19.86 17.65	0.074	4.6 3.1	0.0
	277.0	78.3	304.0	5.642	1204.1	167	16.08	0.032		0.0
									DRAWING NO.	PAGE 5 of
										3M714





Wiring Diagram





Dayton[®] DIRECT DRIVE BLOWER MOTOR

HP: 1/2 VOLTS: 277 **AMPS**: 2.6

RPM: 1075 /3SPD

DUTY: CONT

SF: 10

KVA CODE:

ENCL: OAO

РΗ·

Part 3M714BH

Disconnect Power Before Making Any **Electrical Connections or Changes** TO REVERSE ROTATION

HZ: 60 FR: 48YZ

SFA:

INS CL: B

AMB: 40 ℃

THERMALLY PROTECTED: AUTO AVG.F.I FFF

INTERCHANGE ORG AND YELL FADS

F37403



MFG. NO. PROT. CODE: 7A010

US PAT 7709992

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

BRN/WHT STRIPE -6.0 MFD 370V CAP . Made in China