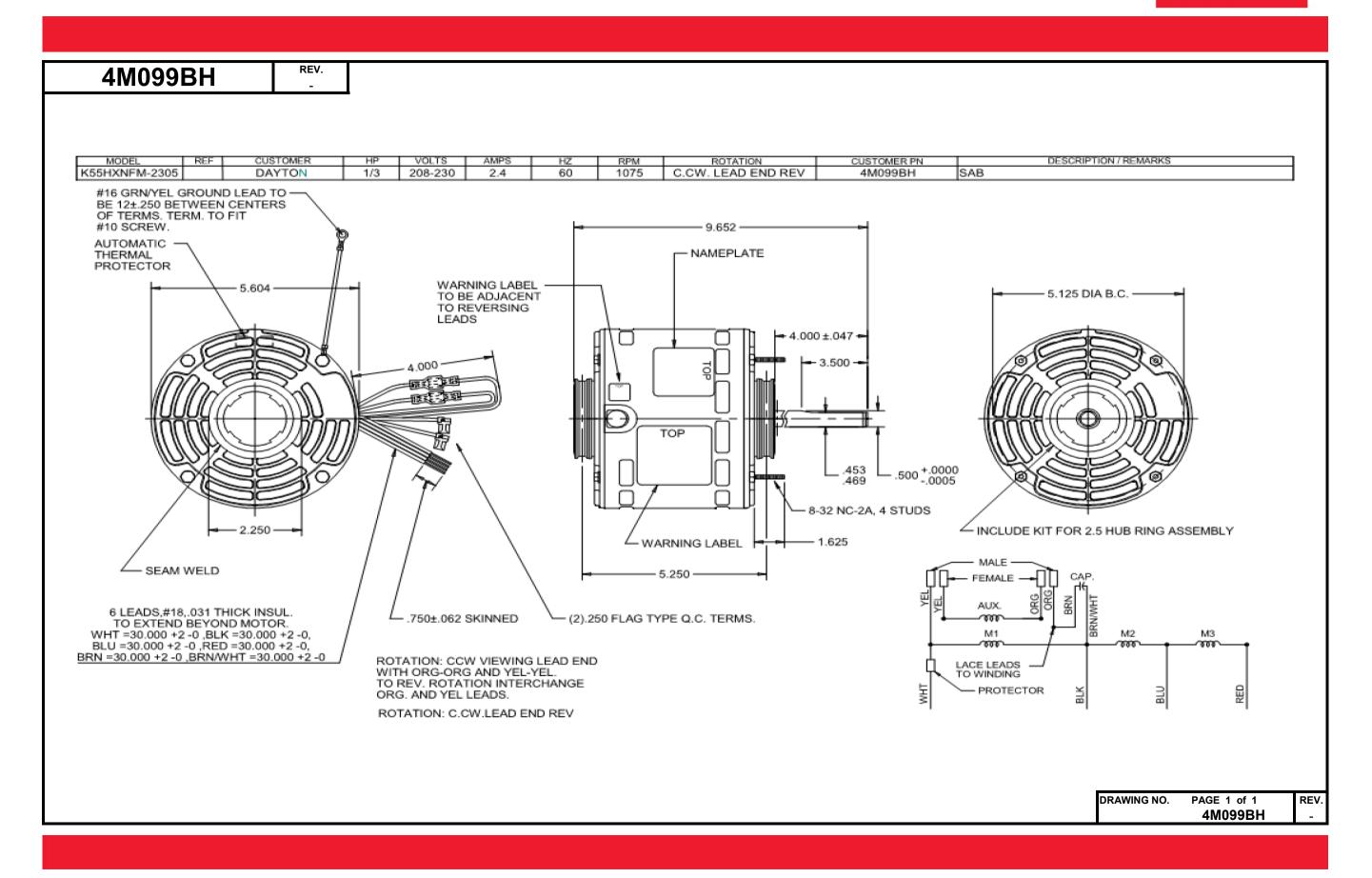
Dimensional Drawing







4M099BI	REV.										
	SHADED-POLE &		OTOR	PERFO	RMAN	ICE					
HP:	1/3										
Poles:	6										
Ambient (°C):	40										
Altitude (FASL):	1000										
No. of Speeds:	3										
		HIGH SI	PEED								
Volts:	208~230	120	208	230	277	460	100	200			
HZ:	60	60	60	60	60	60	50	50			
Service Factor:	1										
Efficiency:	@ Rated Load		58.8	59.5							
Power Factor:	@ Rated Load		81.5	81.2							
Amps:	@ No Load										
	@ Rated Load		2.6	2.8							
	@ Locked Rotor		_	5.6							
RPM:	@ Rated Load		1075	1075							
Torques:	Breakdown		31	38.9							
Oz.Ft. / Lb.In.	Locked Rotor			8.1							
(Circle One)	Pull-Up		0.7.4								
	Rated Load		27.1	32.6							
Matta	Service Factor Rated Load		1	1							
Watts:			441	523							
Temperature Rise: Thermal Protector:	@ Rated Load Trip Temp (°C)		140~150	140~150							
Winding Material:	Start (Auxiliary)		140~150 Al	Al							
winding waterial.	Run (Main)		Cu	Cu							
Capacitor:	Run (MFD / Volts)		5.0 MFD 370V								
oapacitor.	No. of Run Capacitors		1								
	•				•						
HP:	1/3	DIUM-HIC	3H 3PE	בט							
Volts:	208~230	120	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		1	1 1		1					
	@ Rated Load		1			1					
	@ Locked Rotor										
Torques:	Breakdown		18.5	23.1							
Oz.Ft. / Lb.In.	Locked Rotor										
(Circle One)	Pull-Up										
	Rated Load										
Watts:	Rated Load										
Temperature Rise:	@ Rated Load										
							DRAWING N	O. PAGE			
								IO. PAGE 4M099B			



4M099BH

REV.

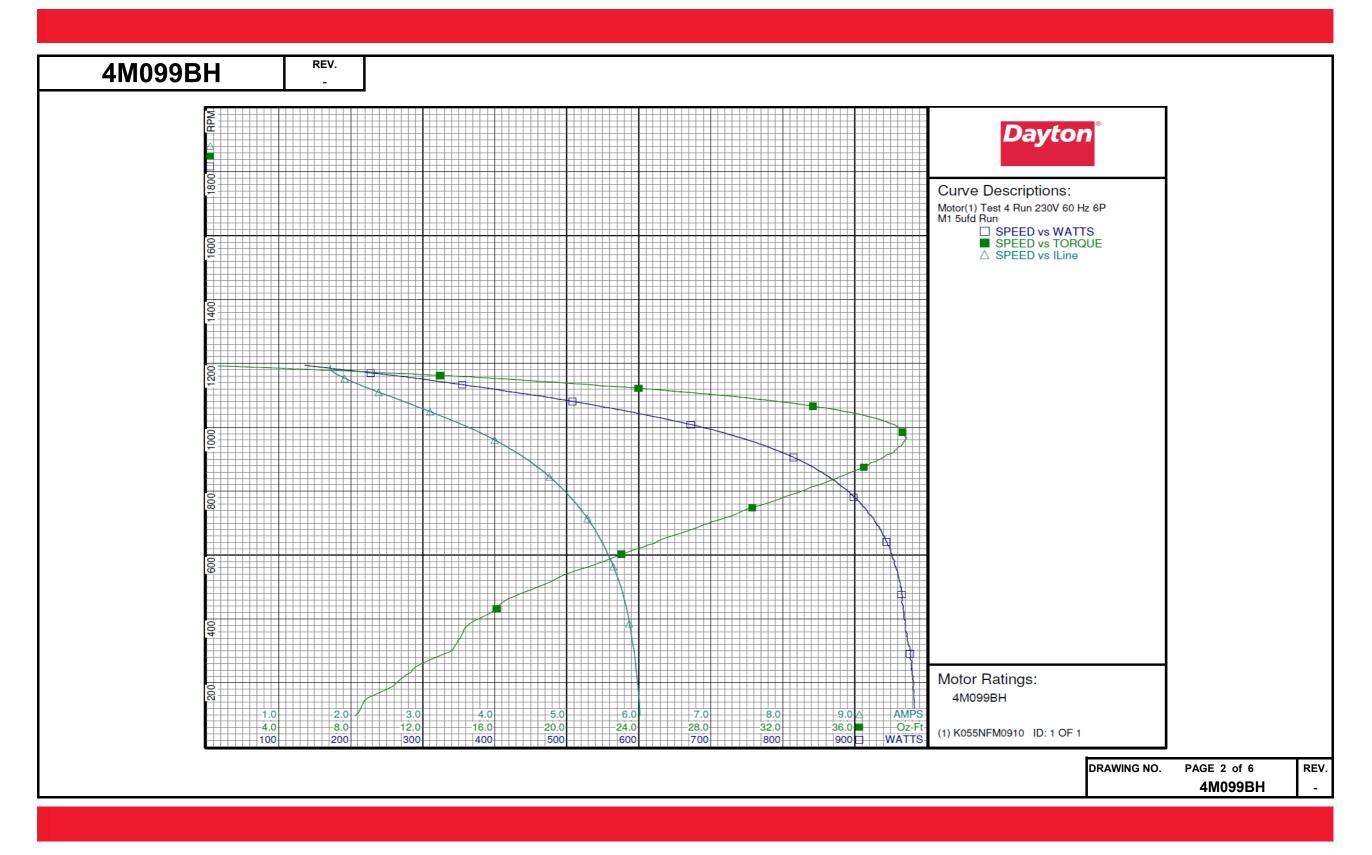
		DIUM-LO	N SPEE	D				
Volts:	1/3							
	208~230	120	208	230	277	460	100	200
HZ:	60	60	60	60	60	60	50	50
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
Torques:	Breakdown							
Oz.Ft. / Lb.In.	Locked Rotor							
(Circle One)	Pull-Up							
	Rated Load							
Watts:	Rated Load							ļ
Temperature Rise:	@ Rated Load							ļ
Watts:	Rated Load							
Temperature Rise:	@ Rated Load							ļ
Thermal Protector:	Trip Temp (°C)							
Winding Material:	Start (Auxiliary)							
	Run (Main)							
		LOW SP	EED					
HP:	1/3							
Volts:	208~230	120	208	230	277	460	100	200
HZ:	60	60	60	60	60	60	50	50
Efficiency:	@ Rated Load							
Eniciency.								
Power Factor:	@ Rated Load							
	@ Rated Load @ No Load							
Power Factor:	@ No Load @ Rated Load							
Power Factor: Amps:	@ No Load		14.5	18.3				
Power Factor:	@ No Load @ Rated Load		14.5	18.3				
Power Factor: Amps: Torques:	 @ No Load @ Rated Load Breakdown Locked Rotor Pull-Up 		14.5	18.3				
Power Factor: Amps: Torques: Oz.Ft. / Lb.In.	 @ No Load @ Rated Load Breakdown Locked Rotor 		14.5	18.3				
Power Factor: Amps: Torques: Oz.Ft. / Lb.In.	 @ No Load @ Rated Load Breakdown Locked Rotor Pull-Up 		14.5	18.3				



4M099BH	-												
				Day	ton M	anufactu	ring Com	pany					
Motor Des	scription					Test Con	ditions						
Model: Motor ID: Poles: Volts: Frequency: HP: Speed: Phase: Protector:	4M099BH 1 OF 1 6 208/230 60 1/3 1075/3SPD 1			Test Type: Test Number Poles: Volts: Hz: Rotation: Special Cond Speed Conn: TestBoard:	6 230 60 : : : : :	Performance	Run Cap Start Cap Environn Tested: Tested B Gear Rat Bearing I Windage	p: nent: sy: tio: Friction:	5 0µfd 3/28/2008 10 TestBoard, M 1:1 -0.48 Oz-Ft :-0.73 Oz-Ft				
Special Points	Vline(V) 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0	Vaux (V) 256.2 253.9 250.7 247.5 243.9 240.2 235.7 230.0	Vcap(V) 375.2 370.6 364.7 359.2 352.5 345.9 338.6 331.2	Iline(A) I 1.725 1.711 1.722 1.765 1.847 1.952 2.089 2.245	main(A) 2.158 2.099 2.052 2.042 2.058 2.104 2.190 2.300	Iaux(A) 0.734 0.725 0.713 0.703 0.691 0.678 0.664 0.648	Watts 136.2 161.1 192.9 223.1 262.6 302.9 346.4 390.5	RPM 1194 1187 1179 1171 1161 1150 1135 1122	Tq(Oz-ft) 0.00 2.87 6.42 9.51 13.37 16.94 20.51 23.99	HP 0.000 0.041 0.090 0.133 0.185 0.232 0.277 0.320	Eff(%) 0.0 18.8 34.8 44.3 52.5 57.1 59.7 61.2	PF(%) 34.3 40.9 48.7 54.9 61.8 67.5 72.1 75.6	Cap 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2
0.333 HP	230.0 230.0 230.0 230.0	227.9 222.8 214.3	328.6 322.2 312.7	2.298 2.434 2.651	2.342 2.455 2.648	0.643 0.632 0.615	404.4 438.4 489.1	1118 1105 1088	25.03 27.46 30.62	0.333 0.361 0.396	61.5 60.5	76.5 78.3 80.2	5.2 5.2 5.2
1075 RPM	230.0 230.0 230.0 230.0 230.0 230.0	208.3 205.1 194.8 182.8 170.5	305.9 302.7 292.6 281.6 271.7	2.881 2.881 3.133 3.422 3.712	2.789 2.865 3.112 3.408 3.712	0.602 0.597 0.578 0.560 0.543	523.4 540.3 592.2 649.0 702.4	1000 1075 1068 1047 1020 992	32.60 33.43 35.69 37.58 38.50	0.417 0.425 0.445 0.456 0.455	59.5 58.7 56.0 52.4 48.3	81.2 81.5 82.2 82.5 82.3	5.2 5.2 5.2 5.3 5.3
BDT OZ-FT	230.0 230.0	160.8 158.0 145.8 134.5 123.6 113.9 105.4 97.5 90.2 83.3 76.9 70.4 64.6 59.1 55.1 55.1 52.0 50.2 48.3	264.9 263.0 255.6 249.7 245.4 242.5 240.6 239.6 239.0 238.8 239.2 239.6 240.5 241.5 241.5 244.5 244.5 244.1 247.4 249.2 251.9	3.937 3.999 4.269 4.513 4.739 4.934 5.104 5.257 5.392 5.510 5.613 5.709 5.786 5.849 5.894 5.941 5.974 6.006	3.953 4.019 4.312 4.580 4.829 5.046 5.235 5.408 5.562 5.696 5.816 5.927 6.019 6.094 6.152 6.210 6.253 6.295	0.531 0.528 0.515 0.498 0.492 0.488 0.484 0.483 0.482 0.482 0.482 0.482 0.482 0.482 0.481 0.484 0.489 0.496 0.502	741.0 751.2 794.2 830.5 861.5 885.6 905.8 921.6 935.8 945.1 955.4 961.1 966.1 968.1 972.5 976.6 981.0 982.6	967 960 925 889 848 808 768 725 679 631 581 527 470 413 354 291 218 143	38.87 38.79 38.18 36.88 35.36 33.40 31.42 29.23 26.88 24.51 22.11 19.46 17.07 15.57 14.20 13.21 10.95 8.74	0.448 0.443 0.421 0.390 0.357 0.321 0.252 0.217 0.184 0.153 0.122 0.096 0.077 0.060 0.046 0.028 0.015	45.1 44.0 39.5 35.0 30.9 27.1 23.6 20.4 17.3 14.5 11.9 9.5 7.4 5.9 4.6 3.5 2.2 1.1	81.8 81.7 80.9 80.0 79.0 78.0 77.2 76.2 75.5 74.6 74.0 73.2 72.6 72.0 71.7 71.5 71.4 71.1	5.3 5.3 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.3 5.3 5.3 5.3 5.3 5.3 5.3
											DR	AWING NO.	PAGE 1 of 6 4M099BH

Performance Data



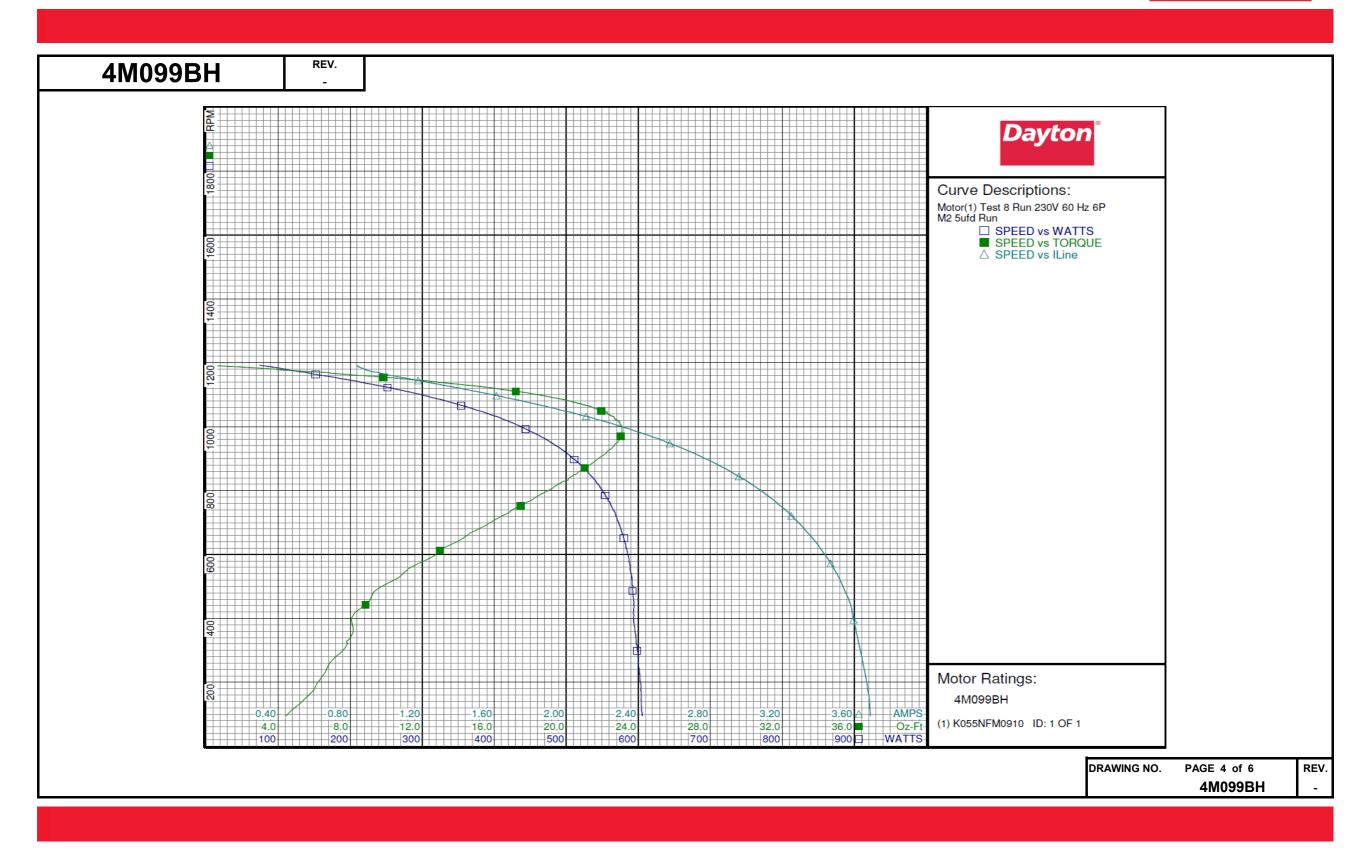




M099BH	-												
				Day	ton M	anufactu	ring Con	ipany					
Motor Des	cription					Test Con	ditions						
Model: Motor ID: Poles: Volts: Frequency: HP: Speed: Phase:	4M099BH 1 OF 1 6 208/230 60 1/3 1075/3SPD			Test Type: Test Number Poles: Volts: Hz: Rotation: Special Cond	6 230 60		Run Cap Start Ca Environ Tested: Tested I Gear Ra Bearing	p: ment: By: atio: Friction:	5 0µfd 3/28/2008 10 TestBoard, N 1:1 -0.45 Oz-Ft :-0.65 Oz-Ft				
Protector:	1			Speed Conn: TestBoard:		Performance		e Torque	0.05 OZ-Ft				
Special Points	Vline(V) 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0	Vaux (V) 206.3 203.9 200.9 198.5 195.9 191.8 187.0 181.1	Vcap(V) 306.2 299.5 290.9 283.5 275.2 266.6 257.8 248.8	0.838 0.857 0.912 0.988 1.093 1.219 1.350 1.495	main(A) 1.215 1.173 1.154 1.219 1.296 1.388 1.509	Iaux (A) 0.602 0.591 0.576 0.561 0.544 0.528 0.511 0.495	Watts 74.5 96.9 124.6 149.3 179.8 212.1 244.5 277.8	RPM 1192 1185 1174 1164 1153 1140 1126 1110	$\begin{array}{c} 0.00\\ 2.43\\ 5.29\\ 7.54\\ 10.14\\ 12.70\\ 15.09\\ 17.21 \end{array}$	HP 0.000 0.034 0.074 0.105 0.139 0.172 0.202 0.228	Eff(%) 0.0 26.4 44.3 52.3 57.8 60.6 61.7 61.1	PF(%) 38.6 49.1 59.4 65.7 71.6 75.7 78.7 80.8	Cap 5.2 5.2 5.2 5.3 5.2 5.2 5.2 5.3 5.3
1075 RPM	230.0 230.0 230.0 230.0 230.0 230.0	174.6 168.1 167.9 160.3 152.8	239.8 231.1 230.8 221.7 213.5	1.646 1.796 1.802 1.966 2.129	1.646 1.790 1.796 1.961 2.130	0.479 0.464 0.464 0.449 0.435	310.0 341.6 342.9 374.9 405.6	1093 1075 1074 1052 1030	19.05 20.54 20.60 21.81 22.66	0.248 0.263 0.263 0.273 0.278	59.7 57.4 57.3 54.4 51.1	81.9 82.7 82.9 82.8	5.3 5.3 5.4 5.4
BDT OZ-FT	230.0 230.0	145.1 139.8 137.5 130.0 122.5 115.4 108.8 102.4 96.5 90.7 85.1 80.0 74.8 70.2 65.5 60.8 56.6 51.8 49.5 45.4	206.1 201.6 199.5 194.0 189.3 185.6 183.0 181.1 179.9 179.2 179.1 179.4 179.6 180.7 181.5 182.7 184.6 187.8 189.4 192.1	2.285 2.386 2.435 2.576 2.711 2.834 2.947 3.052 3.146 3.233 3.312 3.383 3.448 3.505 3.551 3.586 3.609 3.634 3.658 3.681	2.297 2.407 2.461 2.617 2.768 2.907 3.036 3.157 3.266 3.368 3.460 3.545 3.692 3.692 3.750 3.795 3.827 3.860 3.891 3.923	0.421 0.413 0.399 0.391 0.384 0.378 0.375 0.372 0.370 0.369 0.369 0.369 0.369 0.369 0.369 0.369 0.369 0.369 0.369 0.369 0.3714 0.379 0.384	433.3 449.7 458.4 480.8 501.0 518.5 533.6 546.6 557.7 567.3 574.6 581.8 586.4 590.6 592.4 593.4 595.2 598.6 601.5 604.1	1004 985 976 947 916 883 848 811 772 731 687 639 590 537 480 423 363 298 231 152	23.04 23.10 23.08 22.74 22.22 21.38 20.37 19.31 18.13 16.81 15.40 13.93 12.49 10.89 9.28 8.37 8.18 7.59 6.62 5.55	0.275 0.271 0.268 0.256 0.242 0.225 0.206 0.186 0.167 0.146 0.126 0.106 0.088 0.070 0.053 0.042 0.035 0.027 0.018 0.010	47.4 45.0 43.7 39.8 36.1 32.3 28.7 25.4 22.3 19.2 16.3 13.6 11.2 8.8 6.7 5.3 4.4 3.4 2.3 1.2	82.5 81.9 81.2 80.3 79.5 78.7 77.9 77.1 76.3 75.4 74.8 74.0 73.3 72.5 72.0 71.7 71.6 71.5 71.4	5.4 5.4 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5
											DR	AWING NO.	PAGE 3 of 6 4M099B

Performance Data



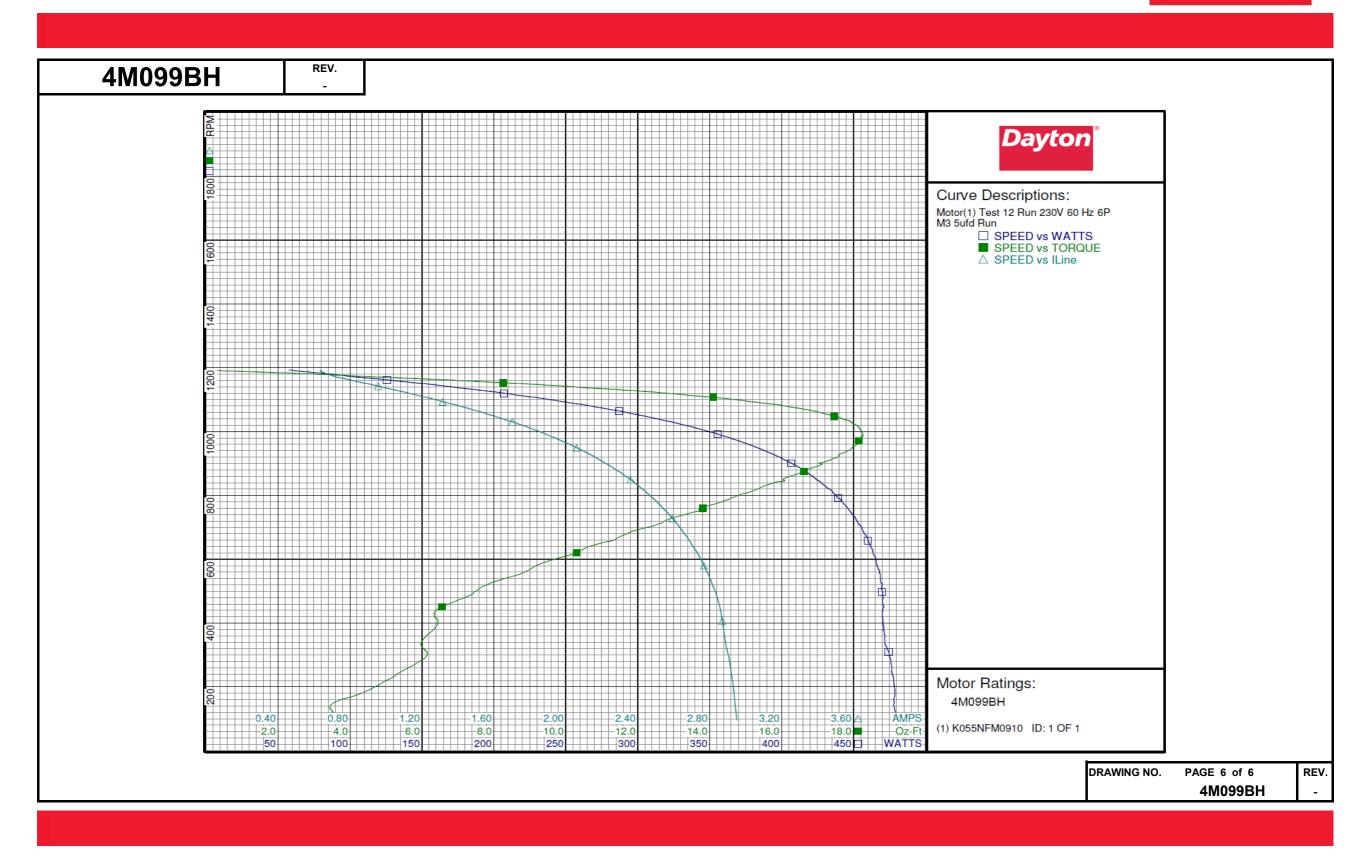




				Day	ton M	anufactu	ring Com	pany					
Motor De	scription					Test Con	ditions						
Model: Motor ID: Poles: Volts: Frequency: HP: Speed: Phase: Protector:	4M099BH 1 OF 1 6 208/230 60 1/3 1075/3SPD 1			Test Type: Test Number Poles: Volts: Hz: Rotation: Special Cond Speed Conn: TestBoard:	6 230 60 :: M3	Performance	Run Cap Start Caj Environi Tested: Tested E Gear Rai Bearing Windage	p: ment: By: tio: Friction:	5 0µfd 3/28/2008 10 TestBoard, M 1:1 -0.37 Oz-Ft :-0,65 Oz-Ft				
Special Points	Vline(V) 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0 230.0	Vaux (V) 187.4 185.2 183.5 182.1 180.5 177.5 173.6 169.2 164.2	Vcap(V) 276.2 268.5 260.8 251.2 243.3 235.4 226.6 218.2 210.0	Iline(A) I 0.633 0.657 0.706 0.793 0.883 0.988 1.104 1.221 1.342	main(A) 0.981 0.944 0.935 0.956 0.994 1.058 1.139 1.237 1.348	Iaux (A) 0.547 0.533 0.519 0.499 0.482 0.482 0.467 0.452 0.437 0.423	Watts 57.7 77.4 97.7 123.7 148.3 173.8 201.7 228.1 253.3	RPM 1192 1184 1174 1163 1151 1137 1124 1108 1089	Tq(Oz-ft) 0.000 2.130 4.143 6.494 8.522 10.463 12.451 14.100 15.454	HP 0.000 0.030 0.058 0.090 0.117 0.142 0.167 0.186 0.200	Eff(%) 0.0 28.9 44.2 54.2 58.7 60.8 61.6 60.8 59.0	PF(%) 39.6 51.3 60.2 67.8 73.0 76.5 79.4 81.2 82.1	Cap 5.2 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3
1075 RPM	230.0 230.0 230.0 230.0 230.0 230.0	160.1 159.0 153.4 147.7 141.8	203.8 202.0 194.5 187.1 180.8	1.342 1.439 1.466 1.589 1.716 1.835	1.348 1.442 1.467 1.592 1.726 1.854	0.423 0.412 0.409 0.395 0.382 0.371	272.9 278.6 302.2 325.6 346.4	1089 1075 1071 1050 1028 1004	16.334 16.579 17.412 17.949 18.205	0.200 0.209 0.211 0.218 0.220 0.217	57.1 56.6 53.7 50.3 46.8	82.5 82.6 82.7 82.5 82.1	5.3 5.4 5.4 5.4 5.4 5.4
BDT OZ-FT	230.0 230.0	138.5 136.1 130.3 124.7 119.1 114.0 109.0 104.2 99.5 95.0 91.0 87.1 83.3 79.7 75.8 72.8 69.0 66.9 63.4	177.6 175.2 170.3 166.5 163.3 161.0 159.3 158.4 157.9 157.9 158.2 158.8 159.6 160.4 161.7 163.0 166.1 167.6 170.1	1.901 1.951 2.062 2.165 2.264 2.351 2.432 2.507 2.578 2.642 2.699 2.752 2.797 2.835 2.862 2.879 2.899 2.921 2.938	1.926 1.981 2.105 2.222 2.334 2.435 2.531 2.619 2.703 2.780 2.849 2.913 2.969 3.018 3.055 3.079 3.106 3.134 3.160	0.365 0.361 0.353 0.346 0.339 0.335 0.329 0.328 0.327 0.328 0.327 0.328 0.327 0.328 0.327 0.325 0.327 0.325 0.327 0.331 0.336 0.341	357.6 365.5 383.4 398.8 412.7 423.6 434.1 442.5 449.8 456.0 461.1 465.6 468.4 470.3 469.8 471.5 474.5 476.9 477.8	988 977 949 919 886 853 817 779 737 694 646 598 546 491 432 372 372 309 239 160	$\begin{array}{c} \textbf{18.273} \\ \textbf{18.207} \\ \textbf{17.958} \\ \textbf{17.543} \\ \textbf{16.847} \\ \textbf{16.065} \\ \textbf{15.266} \\ \textbf{14.306} \\ \textbf{13.230} \\ \textbf{12.056} \\ \textbf{10.873} \\ \textbf{9.633} \\ \textbf{8.537} \\ \textbf{7.409} \\ \textbf{6.330} \\ \textbf{6.264} \\ \textbf{6.135} \\ \textbf{5.293} \end{array}$	0.215 0.212 0.203 0.192 0.178 0.163 0.148 0.133 0.116 0.100 0.084 0.069 0.056 0.043 0.033 0.028 0.023 0.015 0.007	44.8 43.2 39.5 35.9 32.1 28.7 25.5 22.4 19.3 16.3 13.5 11.0 8.8 6.9 5.2 4.4 3.5 2.4 1.1	81.8 81.5 80.9 80.1 79.3 78.3 77.6 76.7 75.8 75.0 74.3 73.6 72.8 72.1 71.4 71.2 71.2 71.0 70.7	5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5

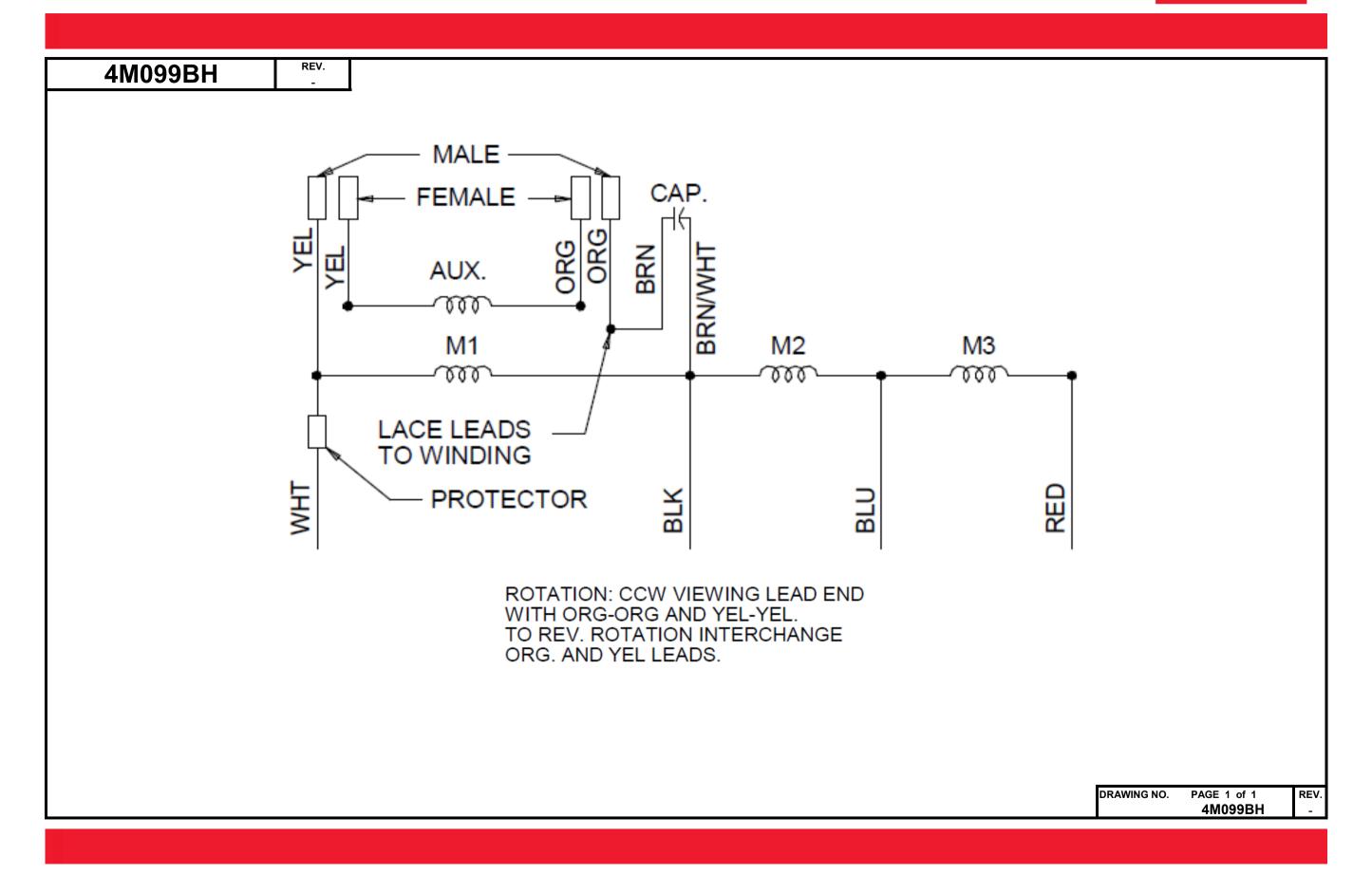
Performance Data





Wiring Diagram





Dayton [®] DIRECT DRIVE BLOWER MOTOR	Disconnect Power Before Making Any Electrical Connections or Changes
Part No 4M099BH BAR CODE	TO REVERSE ROTATION INTERCHANGE ORG AND YEL LEADS WHT 200-220 VOLT LINE
HP: 1/3 PH: 1 VOLTS: 208-230 HZ: 60 AMPS: 2.4 FR: 48YZ RPM: 1075 / 3SPD INS CL: B	
DUTY: CONT AMB: 40 °C ENCL: OAO SF: 1.0 ITHERMALLY PROTECTED: AUTO	
MFG. NO C PROT. CODE : 7A010 AVG.F.L MTR REF: KS5HXNFM-2305 EFF. Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA	BRN BRN HT STRIPE