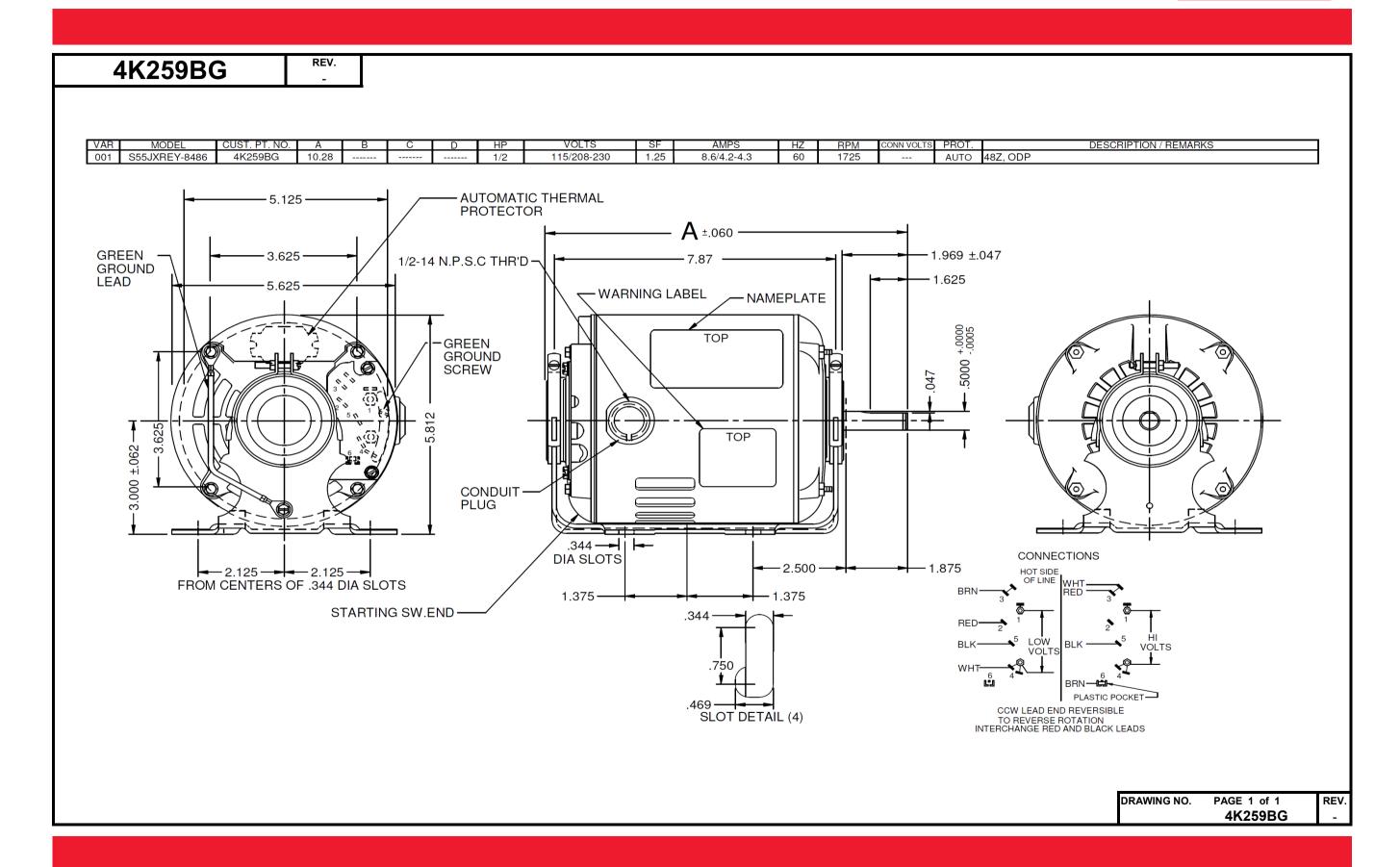
# **Dimensional Drawing**





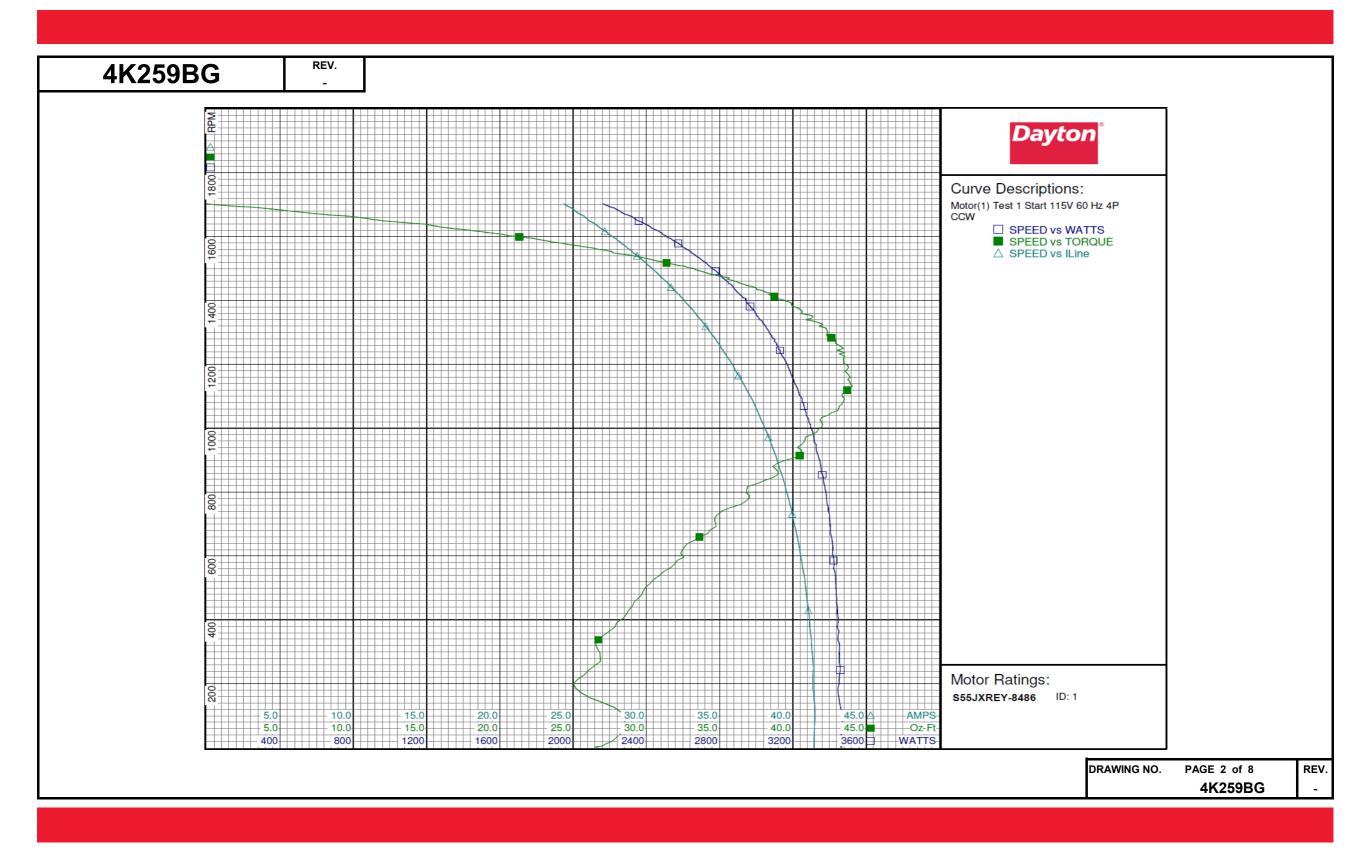


			4 D T W	<b>0</b>			105	
SPLIT-	PHASE & CAPACIT	IOR ST	ARIM	OTOR	PERF	ORMAI	NCE	
HP:	1/2							
Poles:	4							
Ambient (°C):	40							
Altitude (FASL):								
No. of Speeds:	1							
Volts:	115/208-230	115	208	230	-	-	-	-
HZ:	60	60	60	60	-	-	-	-
Service Factor:	1.25							
Efficiency:	@ Rated Load	65.80	66.20	66.20				
Power Factor:	@ Rated Load	66.20	73.10	66.10				
Amps:	@ No Load	5.78	2.47	2.85				
	@ Rated Load	7.44	3.71	3.71				
	@ Service Factor	8.52	4.43	4.20		-		
RPM:	@ Locked Rotor @ Rated Load	41.44 1737	17.98 1721	20.31 1736		1		
	Breakdown	60.2	48.8	59.9				
Torques:	Locked Rotor	26.69	21.27	24.18		1		
	Pull-Up	25.00	18.85	23.71				
	Rated Load	24.19	24.40	24.19				
	Service Factor	30.54	30.94	30.49				
Watts:	Rated Load	567	563	564				
KVA Code:					L			
Temperature Rise:	@ Rated Load	49.30		48.00				
<del>-</del>	@ Service Factor	56.60		65.00				
Thermal Protector:	Trip Temp (°C)				O			
Winding Material:	Start (Auxiliary) Run (Main)				Cu Cu			
Capacitor(s):	Start (MFD / Volts)	+			Cu			
Capacitor(5).	No. of Start Capacitors							
	Run (MFD / Volts)							
	No. of Run Capacitors							
LOW SPEED PER	FORMANCE DATA:							
HP:								
Poles:								
Volts:		120	208	230	277	460	100	200
HZ:	® Datad Land	60	60	60	60	60	50	50
Efficiency:	@ Rated Load @ Rated Load							
Power Factor:	@ No Load	+				-		
Amps:	@ Rated Load	+				1		
	@ Service Factor							
	@ Locked Rotor	+						
Torques:	BreakDown							
	Locked Rotor							
	Pull-Up							
	Rated Load							
	Service Factor							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							
	@ Service Factor							



4K259BG	REV.														
				Dayt	on Ma	nufactu	ıring Con	npany							
Motor Des	cription					Test Co	nditions								
Model: Motor ID: Poles: Volts: Frequency: HP: Speed: Phase: Protector:	scription \$55JXREY-8486 1 4 115/208-230 60/ 50 1/2 1725 1 MEJ55AR		\$55JXREY-8486 1 4 115/208-230 60/ 50 1/2 1725 1		\$55JXREY-8486 Tes 1 Tes 4 Pole 115/208-230 60/ 50 Hz: 1/2 Rot 1725 Spe 1 Spe			Test Type: Test Number: Poles: Volts: Hz: Rotation: Special Cond: Speed Conn: TestBoard:	Start 1 4 115 60 CCW	Environment: Tested: Tested By: Bearing Friction: Windage Torque:					
Special Points	Vline (V) 115.0 115.0 115.0	Iline(A) 41.44 41.44 41.49	Imain(A) 33.14 33.16 33.34	Iaux (A) 8.884 8.841 8.608	Watts 3467 3464 3460	<b>RPM</b> 2 16 126	Tq(Oz-ft) 26.69 27.48 27.82	HP 0.001 0.005 0.042	Eff(%) 0.0 0.1 0.9	PF(%) 72.7 72.7 72.5					
PUT OZ-FT	115.0 115.0	41.37 41.38 41.15 40.89 40.54 40.14 39.68 39.17 38.59 37.98 37.34 36.63 35.90 35.14 34.39 33.60 32.83 32.04 31.27 30.48 29.70 28.96 28.21 27.44 26.76 26.06 25.38 24.80 24.36	33.30 33.33 33.22 33.11 32.90 32.64 32.32 31.97 31.54 31.08 30.61 30.06 29.45 28.80 28.17 27.48 26.80 26.10 25.41 24.67 23.94 23.26 22.53 21.78	8.506 8.394 8.177 7.960 7.730 7.520 7.316 7.117 6.938 6.786 6.637 6.528 6.473 6.447 6.469 6.555 6.583 6.988 7.175 7.381 7.605 7.840 8.076 8.321 8.578 8.814 8.994	3452 3457 3442 3437 3422 3406 3384 3354 3326 3295 3211 3172 3120 3071 3013 2959 2895 2836 2769 2700 2633 2562 2488 2422 2422 2421 2216	201 256 378 491 596 692 781 863 940 1011 1076 1139 1197 1249 1345 1386 1426 1461 1496 1528 1556 1582 1607 1630 1650 1672 1691 1703	25.00 26.46 27.85 29.79 32.55 34.74 37.00 38.99 40.31 42.03 43.34 43.92 43.74 43.43 42.40 41.28 39.90 35.93 33.35 30.35 27.28 23.59 20.22 15.90 11.88 7.33 3.44 0.00	0.060 0.081 0.125 0.174 0.231 0.284 0.344 0.400 0.451 0.506 0.555 0.623 0.646 0.655 0.665 0.665 0.655 0.658 0.647 0.625 0.594 0.552 0.594 0.387 0.308 0.233 0.146 0.069	1.3 1.7 2.7 3.8 5.0 6.3 7.6 8.9 10.1 11.5 12.7 13.8 14.7 15.4 16.6 16.7 16.4 16.0 15.3 14.3 12.9 11.6 9.5 7.4 4.8 2.3 0.0	72.6 72.6 72.7 73.1 73.4 73.8 74.2 74.5 74.9 75.4 75.9 76.2 76.8 77.2 77.7 78.0 78.4 78.6 78.9 79.0 79.1 79.0 78.8 78.7 78.5 78.7 78.7					
	113.0	24.30	10.32	0.334	2104	1703	0.00	0.000	DRAWING NO.	PAGE 1 of 8 4K259BG					



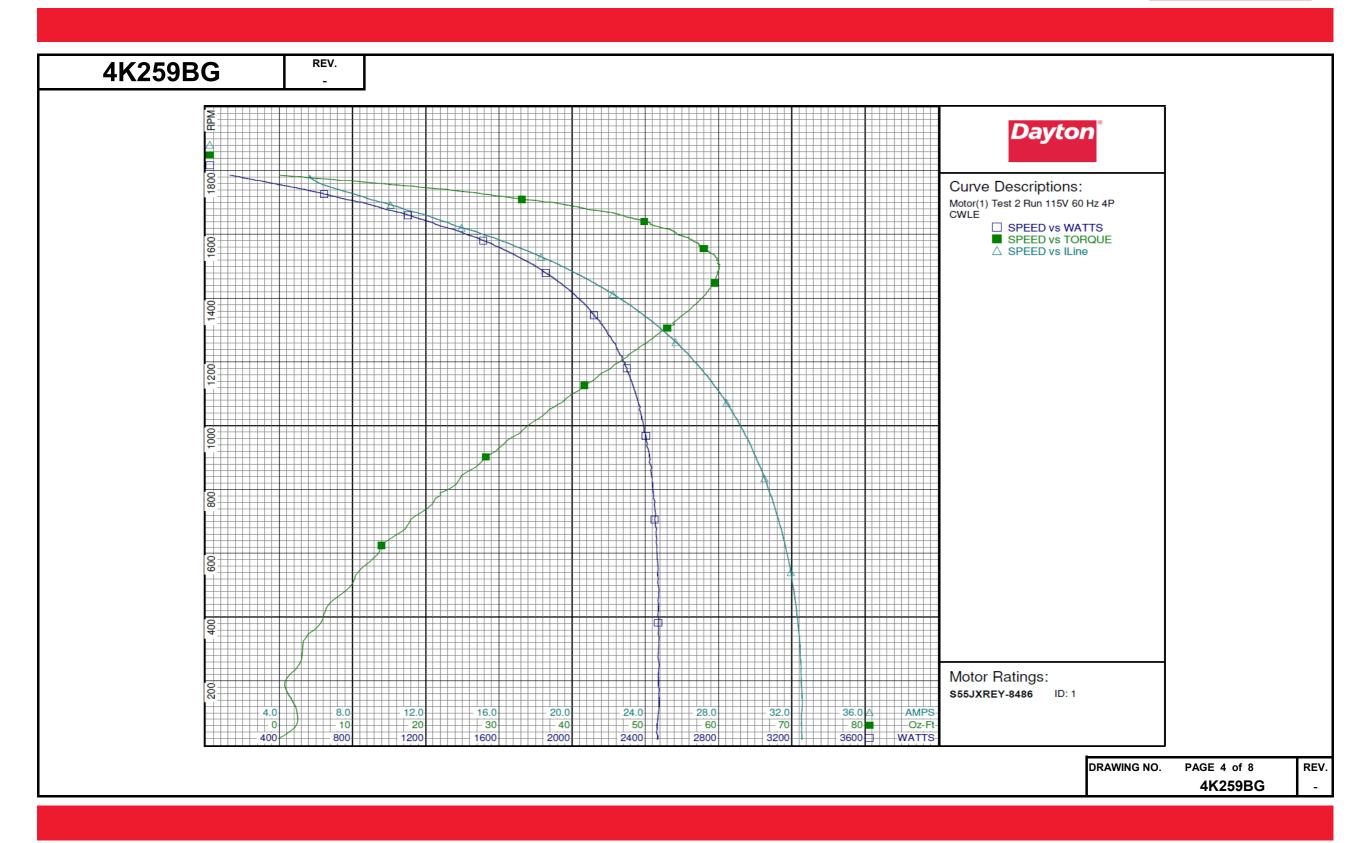




4K259BG

Motor Description	
Motor   Description   Test Conditions   Model:   S55JXREY-8486   Test Type: Run   Test Number: 2   Poles: 4   Environment:   Volus: 115/208-230   Volus: 115   Tested: 2/17/2010 10:   Frequency: 60/ 50   Hz.: 60   Tested By: Sharp, Gerald   HP: 1/2   Rotation: CWLE   Special Cond: Special Cond: Special Points   Vine (V)   Tine (A)   Watts   Special Cond: Special Points   Vine (V)   Tine (A)   Watts   Test Board: Amtps Performance   Fixture #3	
Model:   S55JXREY-8486	
Motor ID:	
Poles: 4	
Volts:	
Frequency: 60/ 50 HP: 1/2 Speed: 1725 Phase: 1 Protector: MEJ55AR  Special Foints  Vine (v) Iline (A) Speed: 1726 115.0 5.64 115.0 6.86 483 1747 19.76 0.411 63.4 61.2 0.55 HP 115.0 8.08 647 1726 27.87 0.573 66.1 69.6 0.625 HP 115.0 9.18 796 1707 34.88 0.709 66.4 75.4 115.0 9.18 796 1707 34.88 0.709 66.4 75.4 115.0 115.0 1.3.22 1237 1637 50.57 115.0 115.0 1.3.22 1237 1637 50.57 115.0 115.	34·54 AM
HP: 1/2	74.54 74.141
Special Points   1725   Special Cond:   Speed Conn:   TestBoard   Amtps Performance   Fixture #3   Special Points   Vline (V)   Iline (A)   Watts   RPM   Tq(Oz-ft)   RP   Eff (*)   PF (*)	
Phase:         1         Special Points         Vline (V)         Tine (A)         Watts         RPM         Tq(Oz-ft)         HP         Eff (W)         PF (%)           115.0         5.64         130         1785         0.00         0.000         0.0         20.0           115.0         5.64         130         1785         0.00         0.000         0.0         20.0           115.0         5.99         306         1767         10.59         0.223         54.2         44.5           0.5         HP         115.0         7.44         567         1737         24.19         0.500         65.8         66.2           0.625         HP         115.0         8.52         702         1737         24.19         0.500         66.1         69.6           0.625         HP         115.0         8.52         702         1779         34.88         0.792         66.1         69.6           115.0         9.19         179         34.89         0.792         66.4         75.7         4           115.0         11.96         1104         1660         46.59         0.921         62.2         80.2         1           115.0	
Protector: MEJ55AR   TestBoard: Amtps Performance   Fixture #3	
Special Points	
115.0 5.64 130 1785 0.00 0.000 0.0 20.0 115.0 5.99 306 1767 10.59 0.223 54.2 44.5 115.0 6.86 483 1747 19.76 0.411 63.4 61.2 115.0 8.08 647 1737 24.19 0.500 65.8 66.2 115.0 8.08 647 1726 27.87 0.573 66.1 69.6 0.625 HP 115.0 8.52 702 1719 30.54 0.625 66.4 71.7 115.0 9.18 796 1707 34.88 0.709 66.4 75.4 115.0 10.59 951 1683 41.08 0.823 64.6 78.1 115.0 11.96 1104 1660 46.59 0.921 62.2 80.2 115.0 13.22 1237 1637 50.57 0.986 59.4 81.4 115.0 11.96 1104 1660 46.59 0.921 62.2 80.2 115.0 14.68 1381 1609 53.85 1.032 55.7 81.8 115.0 14.68 1381 1609 53.85 1.032 55.7 81.8 115.0 17.46 1634 1556 58.37 1.077 49.2 81.4 115.0 17.46 1634 1555 58.37 1.077 49.2 81.4 115.0 18.85 1752 1516 59.99 1.082 46.1 80.8 80.7 115.0 20.17 1856 1479 59.82 1.053 42.3 80.0 115.0 21.48 1956 1438 59.07 1.01 38.6 79.2 115.0 22.71 2043 1395 57.47 0.954 34.8 78.2 115.0 22.71 2043 1395 57.47 0.954 34.8 78.2 115.0 23.90 2120 1347 55.12 0.884 31.1 77.1 115.0 22.02 2189 1296 52.24 0.806 27.5 76.1 115.0 22.79 2338 1114 41.13 0.546 17.4 72.8 115.0 22.70 3238 1114 41.13 0.546 17.4 72.8 115.0 22.70 3238 1114 41.13 0.546 17.4 72.8 115.0 22.74 2338 1114 41.13 0.546 17.4 72.8 115.0 22.74 2338 1114 41.13 0.546 17.4 72.8 115.0 22.74 2338 1114 41.13 0.546 17.4 72.8 115.0 22.74 2441 798 22.92 0.218 6.7 69.1 115.0 29.48 2403 968 22.10 0.306 17.5 14.5 0.99 115.0 29.48 2403 968 22.10 0.508 30.0 67.5 115.0 32.06 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 0.8 66.4	
115.0 5.99 306 1767 10.59 0.223 54.2 44.5 115.0 6.86 483 1747 19.76 0.411 63.4 61.2  0.5 HP 115.0 7.44 567 1737 24.19 0.500 65.8 66.2  115.0 8.08 647 1726 27.87 0.573 66.1 69.6  0.625 HP 115.0 8.52 702 1719 30.54 0.625 66.4 71.7  115.0 9.18 796 1707 34.88 0.709 66.4 75.4  115.0 10.59 951 1683 41.08 0.823 64.6 78.1  115.0 11.96 1104 1660 46.59 0.921 62.2 80.2  115.0 13.22 1237 1637 50.57 0.986 59.4 81.4  115.0 14.68 1381 1609 53.85 1.032 55.7 81.8  115.0 14.68 1381 1609 53.85 1.032 55.7 81.8  115.0 17.46 1634 1550 58.37 1.077 49.2 81.4  115.0 17.46 1634 1550 58.37 1.077 49.2 81.4  115.0 18.85 1752 1516 59.99 1.082 46.1 80.8   BDT OZ-FT 115.0 20.17 1856 1438 59.07 1.011 38.6 79.2  115.0 21.48 1956 1438 59.07 1.011 38.6 79.2  115.0 22.71 2043 1395 57.47 0.954 34.8 78.2  115.0 22.71 2043 1395 57.47 0.954 34.8 78.2  115.0 22.79 2 238 114 41.13 0.546 17.4 72.8  115.0 27.92 2338 114 41.13 0.546 17.4 72.8  115.0 29.48 2403 968 32.12 0.370 11.5 70.9  115.0 30.74 2441 798 22.92 0.218 6.7 69.1  115.0 31.27 2451 708 17.94 0.151 4.6 68.1  115.0 31.27 2451 708 17.94 0.151 4.6 68.1  115.0 31.27 2451 708 17.94 0.151 4.6 68.1  115.0 31.71 2463 605 13.65 0.098 3.0 67.5  115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
0.5 HP 115.0 6.86 483 1747 19.76 0.411 63.4 61.2  115.0 7.44 567 1737 24.19 0.500 65.8 66.2  115.0 8.08 647 1726 27.87 0.573 66.1 69.6  0.625 HP 115.0 8.52 702 1719 30.54 0.625 66.4 71.7  115.0 9.18 796 1707 34.88 0.709 66.4 75.4  115.0 10.59 951 1683 41.08 0.823 64.6 78.1  115.0 11.96 1104 1660 46.59 0.921 62.2 80.2  115.0 13.22 1237 1637 50.57 0.986 59.4 81.4  115.0 14.68 1381 1609 53.85 1.032 55.7 81.8  115.0 16.11 1515 1580 56.47 1.062 52.3 81.8  115.0 16.11 1515 1580 56.47 1.062 52.3 81.8  115.0 18.85 1752 1516 59.99 1.082 46.1 80.8   BDT OZ-FT 115.0 20.17 1856 1478 59.82 1.053 42.3 80.0  115.0 21.48 1956 1438 59.07 1.011 38.6 79.2  115.0 22.71 2043 1395 57.47 0.954 34.8 78.2  115.0 22.71 2043 1395 57.47 0.954 34.8 78.2  115.0 27.03 23.90 2120 1347 55.12 0.884 31.1 77.1  115.0 26.06 2246 1240 48.94 0.722 24.0 74.9  115.0 29.48 2403 968 32.12 0.370 11.5 70.9  115.0 29.48 2403 968 32.12 0.370 11.5 70.9  115.0 29.48 2403 968 32.12 0.370 11.5 70.9  115.0 30.74 2441 798 22.92 0.218 6.7 69.1  115.0 31.27 2451 708 17.94 0.151 4.6 68.1  115.0 31.77 2451 708 17.94 0.151 4.6 68.1  115.0 32.06 2471 497 9.76 0.058 1.7 67.0  115.0 32.03 2.470 383 5.69 0.026 0.8 66.4	
0.5 HP	
0.625 HP  115.0 8.08 647 1726 27.87 0.573 66.1 69.6  115.0 9.18 796 1707 34.88 0.709 66.4 75.4  115.0 10.59 951 1683 41.08 0.823 64.6 78.1  115.0 11.96 1104 1660 46.59 0.921 62.2 80.2  115.0 13.22 1237 1637 50.57 0.986 59.4 81.4  115.0 16.11 1515 1580 56.47 1.062 52.3 81.8  115.0 16.11 1515 1580 56.47 1.062 52.3 81.8  115.0 17.46 1634 1550 58.37 1.077 49.2 81.4  115.0 18.85 1752 1516 59.99 1.082 46.1 80.8  BDT OZ-FT  115.0 20.17 1856 1479 59.82 1.053 42.3 80.0  115.0 22.71 2043 1395 57.47 0.954 34.8 78.2  115.0 23.90 2120 1347 55.12 0.884 31.1 77.1  115.0 25.02 2189 1296 52.24 0.806 27.5 76.1  115.0 27.03 2300 1180 45.29 0.636 20.6 74.0  115.0 27.92 2338 114 41.13 0.546 17.4 72.8  115.0 29.48 2403 968 32.12 0.370 11.5 70.9  115.0 29.48 2403 968 32.12 0.370 11.5 70.9  115.0 30.74 2441 798 22.92 0.218 6.7 69.1  115.0 31.27 2451 705 17.94 0.151 4.6 68.1  115.0 31.71 2463 605 13.65 0.098 3.0 67.5  115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
0.625 HP	
115.0 10.59 951 1683 41.08 0.823 64.6 78.1 115.0 11.96 1104 1660 46.59 0.921 62.2 80.2 115.0 11.96 1104 1660 46.59 0.921 62.2 80.2 115.0 13.22 1237 1637 50.57 0.986 59.4 81.4 115.0 14.68 1381 1609 53.85 1.032 55.7 81.8 115.0 16.11 1515 1580 56.47 1.062 52.3 81.8 115.0 17.46 1634 1550 58.37 1.077 49.2 81.4 115.0 18.85 1752 1516 59.99 1.082 46.1 80.8 115.0 18.85 1752 1516 59.99 1.082 46.1 80.8 115.0 19.27 1787 1505 60.16 1.078 45.0 80.7 115.0 20.17 1856 1479 59.82 1.053 42.3 80.0 115.0 21.48 1956 1438 59.07 1.011 38.6 79.2 115.0 22.71 2043 1395 57.47 0.954 34.8 78.2 115.0 23.90 2120 1347 55.12 0.884 31.1 77.1 115.0 25.02 2189 1296 52.24 0.806 27.5 76.1 115.0 27.03 2300 1180 48.94 0.722 24.0 74.9 115.0 27.03 2300 1180 48.94 0.722 24.0 74.9 115.0 27.03 2300 1180 45.29 0.636 20.6 74.0 115.0 27.92 2338 1114 41.13 0.546 17.4 72.8 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0	
115.0 13.22 1237 1637 50.57 0.986 59.4 81.4 115.0 14.68 1381 1609 53.85 1.032 55.7 81.8 115.0 16.11 1515 1580 56.47 1.062 52.3 81.8 115.0 17.46 1634 1550 58.37 1.077 49.2 81.4 115.0 18.85 1752 1516 59.99 1.082 46.1 80.8 115.0 20.17 1856 1479 59.82 1.053 42.3 80.0 115.0 21.48 1956 1438 59.07 1.011 38.6 79.2 115.0 22.71 2043 1395 57.47 0.954 34.8 78.2 115.0 23.90 2120 1347 55.12 0.884 31.1 77.1 115.0 25.02 2189 1296 52.24 0.806 27.5 76.1 115.0 26.06 2246 1240 48.94 0.722 24.0 74.9 115.0 27.03 2300 1180 45.29 0.636 20.6 74.0 115.0 27.92 2338 1114 41.13 0.546 17.4 72.8 115.0 28.74 2373 1044 36.60 0.455 14.3 71.8 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 32.36 2470 383 5.69 0.026 0.8 66.4	
115.0	
BDT OZ-FT 115.0 17.46 1634 1550 58.37 1.077 49.2 81.4 115.0 18.85 1752 1516 59.99 1.082 46.1 80.8 1750 1787 1505 60.16 1.078 45.0 80.7 115.0 20.17 1856 1479 59.82 1.053 42.3 80.0 115.0 21.48 1956 1438 59.07 1.011 38.6 79.2 115.0 23.90 2120 1347 55.12 0.884 31.1 77.1 115.0 25.02 2189 1296 52.24 0.806 27.5 76.1 115.0 27.03 2300 1180 45.29 0.636 27.5 76.1 115.0 27.03 2300 1180 45.29 0.636 20.6 74.0 115.0 27.92 2338 1114 41.13 0.546 17.4 72.8 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
BDT OZ-FT 115.0 18.85 1752 1516 59.99 1.082 46.1 80.8 19.27 1787 1505 60.16 1.078 45.0 80.7 115.0 20.17 1856 1479 59.82 1.053 42.3 80.0 115.0 21.48 1956 1438 59.07 1.011 38.6 79.2 115.0 22.71 2043 1395 57.47 0.954 34.8 78.2 115.0 23.90 2120 1347 55.12 0.884 31.1 77.1 115.0 25.02 2189 1296 52.24 0.806 27.5 76.1 115.0 27.03 2300 1180 48.94 0.722 24.0 74.9 115.0 27.03 2300 1180 45.29 0.636 20.6 74.0 115.0 27.92 2338 1114 41.13 0.546 17.4 72.8 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
BDT OZ-FT 115.0 19.27 1787 1505 60.16 1.078 45.0 80.7   115.0 20.17 1856 1479 59.82 1.053 42.3 80.0  115.0 21.48 1956 1438 59.07 1.011 38.6 79.2  115.0 22.71 2043 1395 57.47 0.954 34.8 78.2  115.0 23.90 2120 1347 55.12 0.884 31.1 77.1  115.0 25.02 2189 1296 52.24 0.806 27.5 76.1  115.0 26.06 2246 1240 48.94 0.722 24.0 74.9  115.0 27.03 2300 1180 45.29 0.636 20.6 74.0  115.0 27.92 2338 1114 41.13 0.546 17.4 72.8  115.0 28.74 2373 1044 36.60 0.455 14.3 71.8  115.0 29.48 2403 968 32.12 0.370 11.5 70.9  115.0 30.15 2421 886 27.61 0.291 9.0 69.8  115.0 30.74 2441 798 22.92 0.218 6.7 69.1  115.0 31.27 2451 705 17.94 0.151 4.6 68.1  115.0 32.06 2471 497 9.76 0.058 1.7 67.0  115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0     20.17     1856     1479     59.82     1.053     42.3     80.0       115.0     21.48     1956     1438     59.07     1.011     38.6     79.2       115.0     22.71     2043     1395     57.47     0.954     34.8     78.2       115.0     23.90     2120     1347     55.12     0.884     31.1     77.1       115.0     25.02     2189     1296     52.24     0.806     27.5     76.1       115.0     26.06     2246     1240     48.94     0.722     24.0     74.9       115.0     27.03     2300     1180     45.29     0.636     20.6     74.0       115.0     27.92     2338     1114     41.13     0.546     17.4     72.8       115.0     28.74     2373     1044     36.60     0.455     14.3     71.8       115.0     29.48     2403     968     32.12     0.370     11.5     70.9       115.0     30.74     2441     798     22.92     0.218     6.7     69.1       115.0     31.27     2451     705     17.94     0.151     4.6     68.1       115.0     32.06     2471     497     9.76<	
115.0	
115.0 23.90 2120 1347 55.12 0.884 31.1 77.1 115.0 25.02 2189 1296 52.24 0.806 27.5 76.1 115.0 26.06 2246 1240 48.94 0.722 24.0 74.9 115.0 27.03 2300 1180 45.29 0.636 20.6 74.0 115.0 27.92 2338 1114 41.13 0.546 17.4 72.8 115.0 28.74 2373 1044 36.60 0.455 14.3 71.8 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0	
115.0 26.06 2246 1240 48.94 0.722 24.0 74.9 115.0 27.03 2300 1180 45.29 0.636 20.6 74.0 115.0 27.92 2338 1114 41.13 0.546 17.4 72.8 115.0 28.74 2373 1044 36.60 0.455 14.3 71.8 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0 27.03 2300 1180 45.29 0.636 20.6 74.0 115.0 27.92 2338 1114 41.13 0.546 17.4 72.8 115.0 28.74 2373 1044 36.60 0.455 14.3 71.8 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0 27.92 2338 1114 41.13 0.546 17.4 72.8 115.0 28.74 2373 1044 36.60 0.455 14.3 71.8 115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0 29.48 2403 968 32.12 0.370 11.5 70.9 115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0 30.15 2421 886 27.61 0.291 9.0 69.8 115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0 30.74 2441 798 22.92 0.218 6.7 69.1 115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0 31.27 2451 705 17.94 0.151 4.6 68.1 115.0 31.71 2463 605 13.65 0.098 3.0 67.5 115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0 32.06 2471 497 9.76 0.058 1.7 67.0 115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115.0 32.33 2470 383 5.69 0.026 0.8 66.4	
115 11 37 491 7473 767 7 916 11 111101 113 667	
115.0 32.58 2474 132 1.88 0.003 0.1 66.0	
115.0 32.56 2466 16 -0.69 0.000 0.0 65.8	







K259BG	REV. -											
Dayton Manufacturing Company												
Motor Des	scription					Test Cor	nditions					
Model:	S55JXREY-	8486		Test Type:	Start							
Motor ID:	1			Test Number:	15							
Poles:	4			Poles:	4		Enviror	nment:				
Volts:	115/208-230	)		Volts:	230	Tested: 2/17/2010 2:11:34 l						
Frequency:	60/ 50			Hz:	60		Tested	By:	Sharp, Gerald			
HP:	1/2			Rotation:					1,			
Speed:	1725			Special Cond:			Bearing	Friction:	-0.54 Oz-Ft			
Phase:	1			Speed Conn:					:-1.50 Oz-Ft			
Protector:	MEJ55AR			TestBoard:	Amtps Pe	erformance	Fixture #3	go rorque	. 1.00 02 11			
Special Points	Vline(V)	Iline(A)	Imain(A)	Iaux (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)		
	230.0	20.31	13.037	8.054	3326	1	24.18	0.000	0.0	71.2		
PUT OZ-FT	230.0 230.0	20.29 20.29	13.025 13.031	<b>8.036</b> 8.030	<b>3321</b> 3326	<b>10</b> 17	<b>23.71</b> 24.00	0.003 0.005	0.1 0.1	71.2		
	230.0	20.29	13.080	7.864	3340	127	26.04	0.039	0.9	71.3 71.5		
	230.0	20.24	13.105	7.632	3319	257	25.19	0.077	1.7	71.3		
	230.0	20.16	13.080	7.460	3327	377	26.65	0.120	2.7	71.8		
	230.0 230.0	20.02 19.85	13.035 12.963	7.257 7.059	3309 3301	491 597	28.60 31.25	0.167 0.222	3.8 5.0	71.9 72.3		
	230.0	19.65	12.869	6.864	3278	693	33.71	0.278	6.3	72.5		
	230.0	19.42	12.742	6.695	3265	781	36.09	0.336	7.7	73.1		
	230.0	19.16	12.558	6.568	3242	863	37.19	0.382	8.8	73.6		
	230.0 230.0	18.89 18.60	12.383 12.185	6.455 6.357	3223 3198	939 1011	38.36 39.99	0.429 0.481	9.9 11.2	74.2 74.7		
	230.0	18.29	11.976	6.277	3161	1078	40.86	0.524	12.4	75.2		
	230.0	17.94	11.751	6.218	3125	1139	41.61	0.564	13.5	75.7		
	230.0	17.59	11.511	6.189	3088	1196	42.21	0.601	14.5	76.3		
	230.0 230.0	17.23 16.85	11.268 11.019	6.186 6.211	3038 2987	1250 1299	42.05 41.91	0.626 0.648	15.4 16.2	76.6 77.1		
	230.0	16.48	10.768	6.276	2938	1345	40.99	0.656	16.7	77.5		
	230.0	16.09	10.510	6.364	2884	1388	39.94	0.660	17.1	77.9		
	230.0	15.70	10.248	6.478	2818	1426	38.33	0.651	17.2	78.0		
	230.0 230.0	15.30 14.91	9.984 9.715	6.625 6.797	2759 2696	1463 1495	36.30 33.96	0.632	17.1 16.7	78.4 78.6		
	230.0	14.52	9.460	6.980	2635	1527	31.31	0.569	16.1	78.9		
	230.0	14.13	9.187	7.181	2563	1556	28.27	0.524	15.2	78.9		
	230.0	13.76	8.946	7.387	2497	1583	25.06	0.472	14.1	78.9		
	230.0 230.0	13.40 13.04	8.700 8.461	7.597 7.830	2424 2359	1607 1630	21.49 17.77	0.411	12.7 10.9	78.7 78.6		
	230.0	12.71	8.244	8.045	2290	1652	13.94	0.274	8.9	78.3		
	230.0	12.38	8.043	8.278	2226	1671	9.87	0.196	6.6	78.2		
	230.0	12.02	7.787	8.537	2150	1691	4.86	0.098	3.4	77.8		
	230.0 230.0	11.72 11.68	7.567 7.533	8.766 8.798	2077 2072	1710 1711	0.31	0.006	0.2	77.1 77.1		
									DRAWING NO.	PAGE 5 of		
									2.3.411110110.	4K259		







REV.

4K259BG

4K259BG REV.

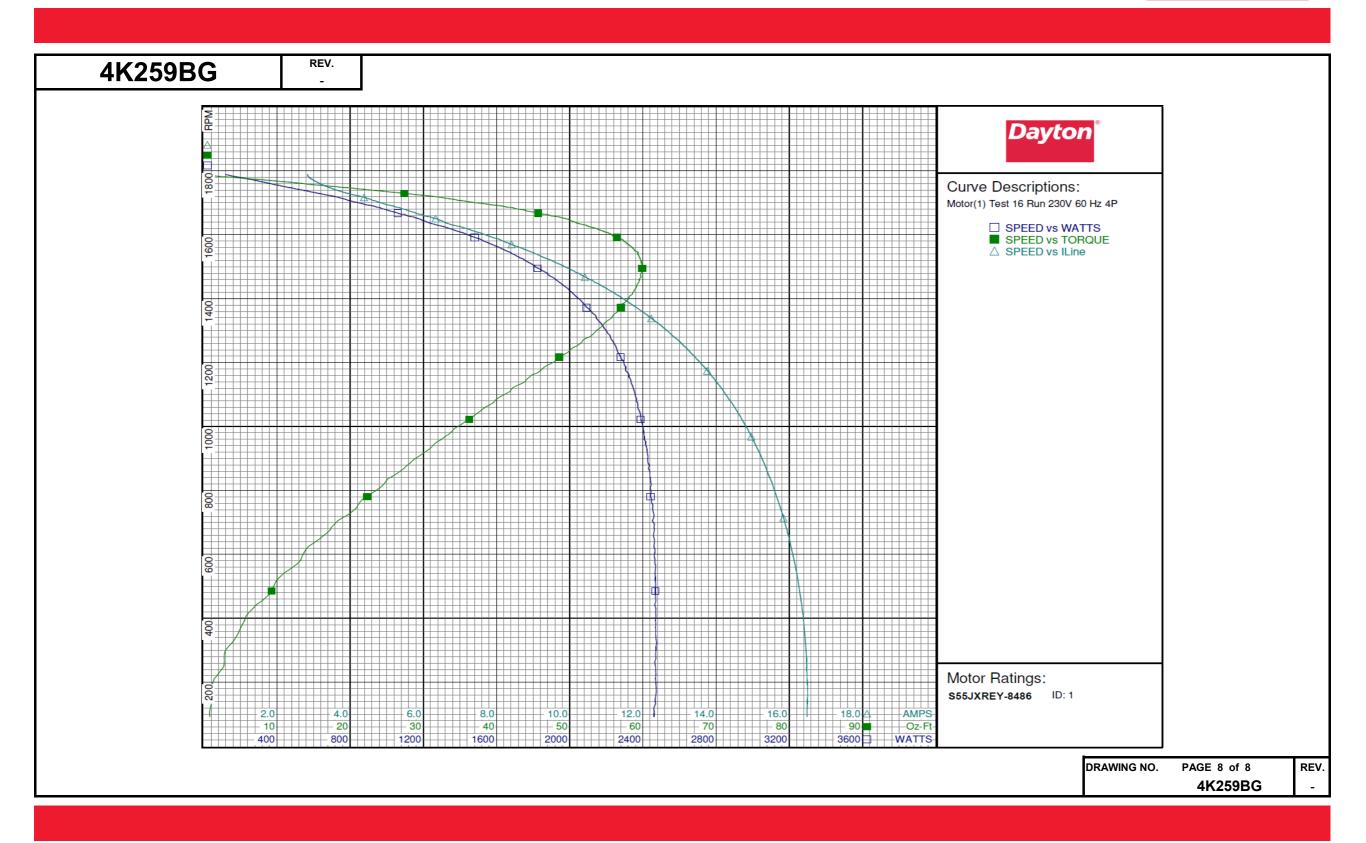
Motor Description

#### **Dayton Manufacturing Company**

**Test Conditions** 

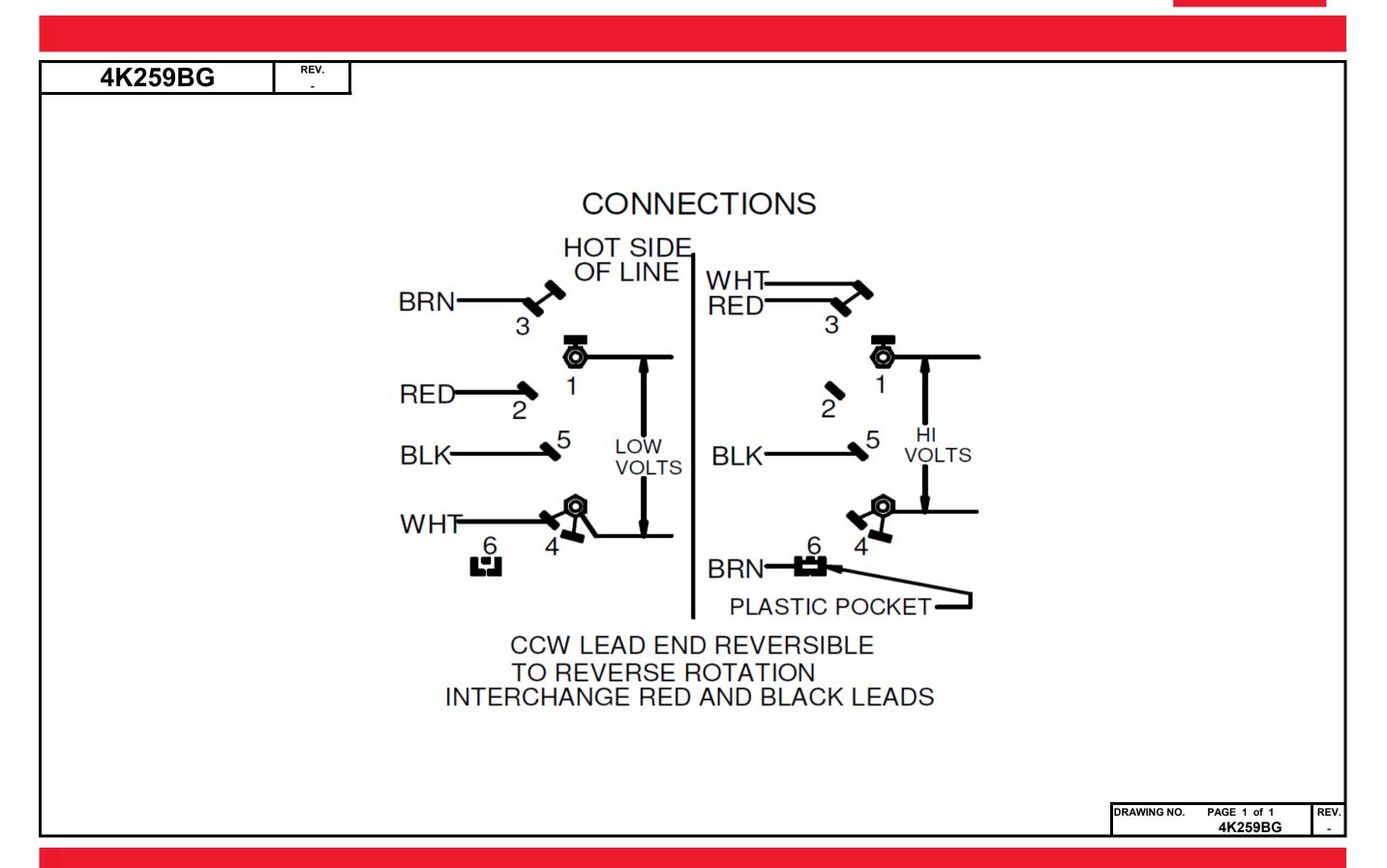
Model:	S55JXREY-8	8486		Test Type:	Run					
Motor ID:	1			Test Numbe	r: 16					
Poles:	4			Poles:	4		Enviro	nment:		
Volts:	115/208-230	)		Volts:	230		Tested:		2/17/2010 1:0	9·12 PM
Frequency:	60/ 50			Hz:	60		Tested		Sharp, Gerald	
					00		Testeu	By.	Sharp, Octain	L
HP:	1/2			Rotation:	_					
Speed:	1725			Special Con					-0.58 Oz-Ft	
Phase:	1			Speed Conn	:		Windag	ge Torque	:-1.53 Oz-Ft	
Protector:	MEJ55AR			TestBoard:	Amtps P	erformance	Fixture #3			
Special Points	Vline(V)	Iline(A)	Watts	RPM '	Tq(Oz-ft)	нр	Eff(%)	PF (%)		
_	230.0	2.832	118	1788	0.00	0.000	0.0	18.1		
	230.0	3.030	294	1768	9.59	0.202	51.3	42.1		
	230.0	3.413	462	1748	18.98	0.395	63.8	58.8		
0.5 HP	230.0	3.710	564	1736	24.19	0.500	66.2	66.1		
0 605 115	230.0	3.994	643	1727	28.24	0.581	67.3	70.0		
0.625 HP	230.0	4.200	693	1722	30.49	0.625	67.2	71.8		
	230.0 230.0	4.611 5.257	788 946	1707 1686	34.78 41.43	0.707 0.831	66.9 65.6	74.3 78.3		
	230.0	5.951	1096	1663	46.84	0.928	63.2	80.0		
	230.0	6.610	1232	1637	50.90	0.992	60.0	81.1		
	230.0	7.385	1385	1611	54.59	1.047	56.4	81.5		
	230.0	8.131	1523	1582	57.32	1.080	52.9	81.4		
	230.0	8.847	1649	1550	58.84	1.086	49.1	81.1		
	230.0	9.532	1761	1517	59.77	1.079	45.7	80.3		
BDT OZ-FT	230.0	9.818	1807	1503	59.90	1.072	44.2	80.0		
	230.0	10.231	1878	1479	59.75	1.052	41.8	79.8		
	230.0	10.874	1969	1440	59.13	1.013	38.4	78.7		
	230.0	11.512	2058	1396	57.87	0.961	34.9	77.7		
	230.0	12.121	2139	1348	55.97	0.898	31.3	76.7		
	230.0 230.0	12.690 13.221	2203 2257	1297 1241	53.51 50.13	0.826 0.741	28.0 24.5	75.5 74.2		
	230.0	13.718	2305	1180	46.25	0.650	21.0	73.1		
	230.0	14.174	2350	1115	42.01	0.558	17.7	72.1		
	230.0	14.591	2383	1044	37.51	0.466	14.6	71.0		
	230.0	14.965	2408	968	32.93	0.379	11.8	69.9		
	230.0	15.305	2428	886	28.21	0.298	9.1	69.0		
	230.0	15.597	2445	798	23.44	0.223	6.8	68.1		
	230.0	15.866	2451	705	18.30	0.154	4.7	67.2		
	230.0	16.087	2464	604	13.66	0.098	3.0	66.6		
	230.0	16.266	2468	496	9.45	0.056	1.7	66.0		
	230.0	16.398	2470 2464	382	5.32	0.024	0.7	65.5 65.1		
	230.0 230.0	16.471 16.492	2469	262 132	2.79 1.03	0.009	0.3	65.1		
	230.0	10.492	2409	132	1.03	0.002	0.0	33.1		
									DRAWING NO.	PAGE 7 of 8





## **Wiring Diagram**





#### **Dayton**® **BELT DRIVE FAN & BLOWER MOTOR**

**HP**: 1/2 VOLTS: 115/208-230

AMPS: 8.6/4.2-4.3

**RPM**: 1725

**DUTY: CONT** 

**ENCL: ODP** 



Part 4K259BG

BRN

PH: 1 **H7** · 60 Disconnect Power Before Making Any **Electrical Connections or Changes** 

INS CL: B SF: 1.25 KVA CODE: 1

AMB: 40 C SFA: 9.4/4.9-4.7

FR: 487

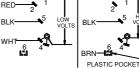
AVG FI

MFG. NO. PROT. CODE: 04390 FFF MTR REF: S55JXRFY-8486





THERMALLY PROTECTED: AUTO



CCW LEAD END REVERSIBLE TO REVERSE BOTATION INTERCHANGE RED AND BLACK LEADS

CONNECTIONS

WHT.

RED.

HOT SIDE. OF LINE

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

Made in Mexico