# Dimensional Drawing

**Dayton**®

| 4M184BH | REV. - |
|---------|--------|

| MODEL | REF | CUSTOMER | HP | VOLTS | AMPS | HZ | RPM | ROTATION | CUSTOMER PN | DESCRIPTION / REMARKS |
|-------|-----|----------|-----|-------|------|-----|------|----------|-------------|----------------------|
| K55HXSTR-2351 | | DAYTON | 3/4 | 208-230 | 4.6 | 60 | 1075 | C.CW. LEAD END REV | 4M184BH | SAB |

#16 GRN/YEL GROUND LEAD TO BE 12±.250 BETWEEN CENTERS OF TERMS. TERM. TO FIT #10 SCREW.

AUTOMATIC THERMAL PROTECTOR

5.604

WARNING LABEL TO BE ADJACENT TO REVERSING LEADS

NAMEPLATE

10.402

4.000

4.000 ±.047

3.500

TOP

TOP

.453 .469

.500 +.0000 -.0005

5.125 DIA B.C.

2.250

8-32 NC-2A, 4 STUDS

WARNING LABEL

1.625

INCLUDE KIT FOR 2.5 HUB RING ASSEMBLY

SEAM WELD

6.000

6 LEADS,#18,.031 THICK INSUL. TO EXTEND BEYOND MOTOR. WHT =30.000 +2 -0 ,BLK =30.000 +2 -0, BLU =30.000 +2 -0 ,RED =30.000 +2 -0, BRN 30.000 +2 -0 ,BRN/WHT =30.000 +2 -0

.750±.062 SKINNED

(2).250 FLAG TYPE Q.C. TERMS.

ROTATION: CCW VIEWING LEAD END WITH ORG-ORG AND YEL-YEL. TO REV. ROTATION INTERCHANGE ORG. AND YEL LEADS.

ROTATION: C.CW.LEAD END REV

MALE
FEMALE
CAP.
YEL
YEL
AUX.
ORG
ORG
BRN
BRN/WHT
M1
M2
M3
WHT
LACE LEADS TO WINDING
PROTECTOR
BLK
BLU
RED

DIMENSIONS UNITS,INCHES

| DRAWING NO. | PAGE 1 of 1 | REV. |
|-------------|-------------|------|
| 4M184BH | | - |

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

# Performance Data

**Dayton®**

| 4M184BH | REV. - | |
|---|---|---|

## SHADED-POLE & PSC MOTOR PERFORMANCE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **HP:** | 3/4 | | | | | | | |
| **Poles:** | 6 | | | | | | | |
| **Ambient (ºC):** | 40 | | | | | | | |
| **Altitude (FASL):** | 1000 | | | | | | | |
| **No. of Speeds:** | 3 | | | | | | | |
| **HIGH SPEED** | | | | | | | | |
| **Volts:** | 208~230 | 115 | 208 | 230 | 277 | 460 | 100 | 200 |
| **HZ:** | 60 | 60 | 60 | 60 | 60 | 60 | 50 | 50 |
| **Service Factor:** | 1.0 | | | | | | | |
| **Efficiency:** | @ Rated Load | | 64.6 | 64.3 | | | | |
| **Power Factor:** | @ Rated Load | | 89.8 | 87.7 | | | | |
| **Amps:** | @ No Load | | | | | | | |
| | @ Rated Load | | 4.4 | 5 | | | | |
| | @ Locked Rotor | | | 8.3 | | | | |
| **RPM:** | @ Rated Load | | 1075 | 1075 | | | | |
| **Torques:** Oz.Ft. | Breakdown | | 64.2 | 79.9 | | | | |
| | Locked Rotor | | | 11.1 | | | | |
| | Pull-Up | | | | | | | |
| | Rated Load | | 55.6 | 67.9 | | | | |
| | Service Factor | | 1.0 | 1.0 | | | | |
| **Watts:** | Rated Load | | 822 | 1008 | | | | |
| **Temperature Rise:** | @ Rated Load | | | | | | | |
| **Thermal Protector:** | Trip Temp (ºC) | | 125~135 | 125~135 | | | | |
| **Winding Material:** | Start (Auxiliary) | | Copper | Copper | | | | |
| | Run (Main) | | Copper | Copper | | | | |
| **Capacitor:** | Run (MFD / Volts) | 10.0 MFD  370V | | | | | | |
| | No. of Run Capacitors | 1 | | | | | | |
| **MEDIUM-HIGH SPEED** | | | | | | | | |
| **HP:** | 3/4 | | | | | | | |
| **Volts:** | 208~230 | 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 | | | | | | | |
| | @ Rated Load | | | | | | | |
| | @ Locked Rotor | | | | | | | |
| **Torques:** Oz.Ft. | Breakdown | | 44.7 | 56.2 | | | | |
| | Locked Rotor | | | | | | | |
| | Pull-Up | | | | | | | |
| | Rated Load | | | | | | | |
| **Watts:** | Rated Load | | | | | | | |
| **Temperature Rise:** | @ Rated Load | | | | | | | |

| DRAWING NO. | PAGE 1 | REV. |
|---|---|---|
| 4M184BH | | - |

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

# Performance Data

**Dayton®**

| 4M184BH | REV. - | |
|---------|--------|--|

## SHADED-POLE & PSC MOTOR PERFORMANCE

### MEDIUM-LOW SPEED

| | | | 115 | 208 | 230 | 277 | 460 | 100 | 200 |
|---|---|---|---|---|---|---|---|---|---|
| **HP:** | 3/4 | | | | | | | | |
| **Volts:** | 208~230 | | 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 | | | | | | | | |
| | @ Rated Load | | | | | | | | |
| **Torques:** | Breakdown | | | | | | | | |
| Oz.Ft. | Locked Rotor | | | | | | | | |
| | Pull-Up | | | | | | | | |
| | Rated Load | | | | | | | | |
| **Watts:** | Rated Load | | | | | | | | |
| **Temperature Rise:** | @ Rated Load | | | | | | | | |
| **Watts:** | Rated Load | | | | | | | | |
| **Temperature Rise:** | @ Rated Load | | | | | | | | |
| **Thermal Protector:** | Trip Temp (ºC) | | | | | | | | |
| **Winding Material:** | Start (Auxiliary) | | | | | | | | |
| | Run (Main) | | | | | | | | |

### LOW SPEED

| | | | 120 | 208 | 230 | 277 | 460 | 100 | 200 |
|---|---|---|---|---|---|---|---|---|---|
| **HP:** | 3/4 | | | | | | | | |
| **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 | | | | | | | | |
| | @ Rated Load | | | | | | | | |
| **Torques:** | Breakdown | | | 32.4 | 41.1 | | | | |
| Oz.Ft. | Locked Rotor | | | | | | | | |
| | Pull-Up | | | | | | | | |
| | Rated Load | | | | | | | | |
| **Watts:** | Rated Load | | | | | | | | |
| **Temperature Rise:** | @ Rated Load | | | | | | | | |

**Notes:**

| DRAWING NO. | PAGE 1 | REV. |
|-------------|--------|------|
| 4M184BH | | - |

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

# Performance Data

**Dayton**®

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | 4M184BH |
| Motor ID: | 1 OF 1 |
| Poles: | 6 |
| Volts: | 208/230 |
| Frequency: | 60 |
| HP: | 3/4 |
| Speed: | 1075/3SPD |
| Phase: | 1 |
| Protector: | |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 10 |
| Test Number: | 4 | Start Cap: | 0μfd |
| Poles: | 6 | Environment: | |
| Volts: | 230 | Tested: | 2/5/2007 10:13:32 AM |
| Hz: | 60 | Tested By: | Sharp, Gerald |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | | Bearing Friction: | -1.44 Oz-Ft |
| Speed Conn: | M1 | Windage Torque: | -1.63 Oz-Ft |
| TestBoard: | Amtps Performance Fixture #3 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Imain(A) | Iaux(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) | Cap |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 230.0 | 353.5 | 450.6 | 2.234 | 3.083 | 1.724 | 226.3 | 1193 | 0.00 | 0.000 | 0.0 | 44.0 | 10.1 |
| | 230.0 | 348.6 | 440.4 | 2.295 | 2.828 | 1.681 | 324.1 | 1181 | 10.80 | 0.152 | 35.0 | 61.4 | 10.1 |
| | 230.0 | 340.3 | 425.6 | 2.548 | 2.744 | 1.625 | 433.1 | 1167 | 22.51 | 0.313 | 53.9 | 73.9 | 10.1 |
| | 230.0 | 329.3 | 410.2 | 2.908 | 2.844 | 1.575 | 542.7 | 1154 | 33.33 | 0.458 | 63.0 | 81.1 | 10.2 |
| | 230.0 | 316.1 | 393.1 | 3.273 | 3.047 | 1.518 | 638.6 | 1141 | 42.04 | 0.571 | 66.7 | 84.8 | 10.2 |
| | 230.0 | 305.6 | 379.3 | 3.672 | 3.346 | 1.460 | 732.3 | 1125 | 49.64 | 0.665 | 67.7 | 86.7 | 10.2 |
| | 230.0 | 296.5 | 367.6 | 4.082 | 3.698 | 1.408 | 824.4 | 1109 | 56.72 | 0.749 | 67.8 | 87.8 | 10.2 |
| 0.75 HP | 230.0 | 296.4 | 367.5 | 4.088 | 3.703 | 1.407 | 825.7 | 1109 | 56.80 | 0.750 | 67.8 | 87.8 | 10.2 |
| | 230.0 | 284.9 | 354.6 | 4.499 | 4.094 | 1.357 | 914.5 | 1093 | 62.91 | 0.819 | 66.8 | 88.4 | 10.1 |
| | 230.0 | 270.2 | 340.3 | 4.955 | 4.562 | 1.302 | 1007.4 | 1075 | 67.86 | 0.868 | 64.3 | 88.4 | 10.1 |
| 1075 RPM | 230.0 | 270.2 | 340.3 | 4.956 | 4.563 | 1.302 | 1007.6 | 1075 | 67.87 | 0.869 | 64.3 | 88.4 | 10.1 |
| | 230.0 | 257.9 | 327.4 | 5.414 | 5.043 | 1.253 | 1099.8 | 1054 | 72.07 | 0.904 | 61.3 | 88.3 | 10.2 |
| | 230.0 | 245.7 | 315.6 | 5.860 | 5.519 | 1.206 | 1179.3 | 1033 | 75.42 | 0.928 | 58.7 | 87.5 | 10.1 |
| | 230.0 | 231.6 | 303.1 | 6.335 | 6.041 | 1.160 | 1261.6 | 1010 | 78.00 | 0.938 | 55.4 | 86.6 | 10.2 |
| | 230.0 | 217.4 | 291.6 | 6.804 | 6.564 | 1.118 | 1339.1 | 984 | 79.28 | 0.929 | 51.8 | 85.6 | 10.2 |
| BDT OZ-FT | 230.0 | 206.1 | 283.1 | 7.166 | 6.973 | 1.087 | 1395.0 | 962 | 79.85 | 0.915 | 48.9 | 84.6 | 10.2 |
| | 230.0 | 203.1 | 281.1 | 7.257 | 7.076 | 1.080 | 1407.3 | 957 | 79.21 | 0.902 | 47.8 | 84.3 | 10.2 |
| | 230.0 | 189.2 | 271.7 | 7.705 | 7.587 | 1.047 | 1472.1 | 927 | 78.43 | 0.865 | 43.9 | 83.1 | 10.2 |
| | 230.0 | 176.0 | 263.5 | 8.138 | 8.081 | 1.020 | 1529.0 | 893 | 76.90 | 0.818 | 39.9 | 81.7 | 10.3 |
| | 230.0 | 160.8 | 257.5 | 8.545 | 8.560 | 0.998 | 1578.6 | 858 | 72.90 | 0.745 | 35.2 | 80.3 | 10.3 |
| | 230.0 | 148.0 | 252.9 | 8.917 | 8.995 | 0.983 | 1619.6 | 819 | 69.23 | 0.675 | 31.1 | 79.0 | 10.3 |
| | 230.0 | 136.6 | 249.6 | 9.256 | 9.387 | 0.972 | 1653.2 | 777 | 65.20 | 0.603 | 27.2 | 77.7 | 10.3 |
| | 230.0 | 125.3 | 247.7 | 9.570 | 9.765 | 0.968 | 1676.2 | 734 | 60.37 | 0.528 | 23.5 | 76.1 | 10.4 |
| | 230.0 | 114.8 | 247.3 | 9.853 | 10.102 | 0.966 | 1701.3 | 685 | 54.99 | 0.449 | 19.7 | 75.1 | 10.4 |
| | 230.0 | 105.1 | 247.7 | 10.106 | 10.408 | 0.969 | 1719.3 | 632 | 49.41 | 0.372 | 16.1 | 74.0 | 10.4 |
| | 230.0 | 96.2 | 248.7 | 10.328 | 10.677 | 0.972 | 1731.5 | 577 | 43.87 | 0.301 | 13.0 | 72.9 | 10.4 |
| | 230.0 | 88.0 | 249.7 | 10.513 | 10.909 | 0.975 | 1738.5 | 518 | 38.50 | 0.238 | 10.2 | 71.9 | 10.4 |
| | 230.0 | 80.5 | 251.1 | 10.675 | 11.112 | 0.979 | 1743.5 | 455 | 33.39 | 0.181 | 7.7 | 71.0 | 10.3 |
| | 230.0 | 73.5 | 253.2 | 10.808 | 11.281 | 0.982 | 1747.7 | 387 | 29.06 | 0.134 | 5.7 | 70.3 | 10.3 |
| | 230.0 | 69.2 | 256.7 | 10.916 | 11.426 | 0.996 | 1752.9 | 313 | 24.49 | 0.091 | 3.9 | 69.8 | 10.3 |
| | 230.0 | 65.5 | 259.1 | 10.996 | 11.533 | 1.004 | 1756.2 | 237 | 22.00 | 0.062 | 2.6 | 69.4 | 10.3 |
| | 230.0 | 63.2 | 262.7 | 11.060 | 11.624 | 1.019 | 1757.7 | 154 | 18.35 | 0.034 | 1.4 | 69.1 | 10.3 |

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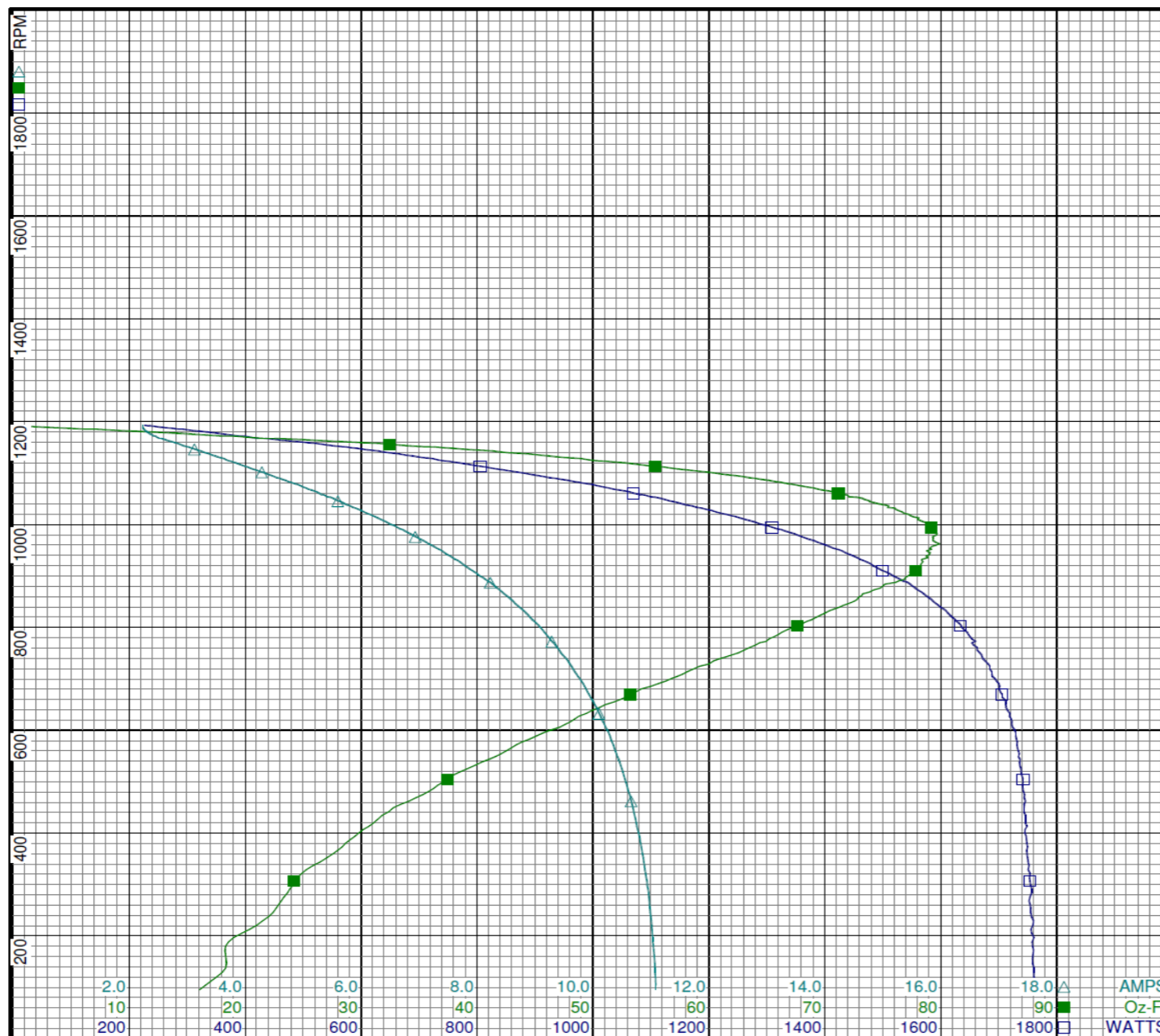
# Performance Data

**Dayton**®

| 4M184BH | REV. - |
|---------|--------|



**Dayton**®

Curve Descriptions:
Motor(1) Test 4 Run 230V 60 Hz 6P
M1 10ufd Run

□ SPEED vs WATTS
■ SPEED vs TORQUE
△ SPEED vs ILine

Motor Ratings:
4M184BH

| | AMPS | Oz-Ft | WATTS |
|---|---|---|---|
| | 2.0 | 10 | 200 |
| | 4.0 | 20 | 400 |
| | 6.0 | 30 | 600 |
| | 8.0 | 40 | 800 |
| | 10.0 | 50 | 1000 |
| | 12.0 | 60 | 1200 |
| | 14.0 | 70 | 1400 |
| | 16.0 | 80 | 1600 |
| | 18.0 | 90 | 1800 |

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

# Performance Data

**Dayton**®

| 4M184BH | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | 4M184BH |
| Motor ID: | 1 OF 1 |
| Poles: | 6 |
| Volts: | 208/230 |
| Frequency: | 60 |
| HP: | 3/4 |
| Speed: | 1075/3SPD |
| Phase: | 1 |
| Protector: | |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 10 |
| Test Number: | 8 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | |
| Volts: | 230 | Tested: | 2/5/2007 10:07:18 AM |
| Hz: | 60 | Tested By: | Sharp, Gerald |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | | Bearing Friction: | -1.51 Oz-Ft |
| Speed Conn: | M2 | Windage Torque: | -1.73 Oz-Ft |
| TestBoard: | Amtps Performance Fixture #3 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Imain(A) | Iaux(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) | Cap |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 230.0 | 320.5 | 402.9 | 1.214 | 1.970 | 1.538 | 164.0 | 1191 | 0.00 | 0.000 | 0.0 | 58.7 | 10.1 |
| | 230.0 | 314.5 | 389.5 | 1.391 | 1.750 | 1.485 | 247.0 | 1180 | 9.22 | 0.130 | 39.1 | 77.2 | 10.1 |
| | 230.0 | 302.5 | 368.4 | 1.737 | 1.730 | 1.407 | 342.4 | 1165 | 19.39 | 0.269 | 58.6 | 85.7 | 10.1 |
| | 230.0 | 283.8 | 345.0 | 2.014 | 1.839 | 1.326 | 408.6 | 1153 | 26.31 | 0.361 | 65.9 | 88.2 | 10.2 |
| | 230.0 | 269.2 | 322.3 | 2.375 | 2.096 | 1.243 | 483.8 | 1139 | 32.61 | 0.442 | 68.2 | 88.6 | 10.2 |
| | 230.0 | 256.7 | 307.0 | 2.703 | 2.382 | 1.186 | 553.0 | 1124 | 37.65 | 0.504 | 68.0 | 89.0 | 10.3 |
| | 230.0 | 247.9 | 298.3 | 3.009 | 2.671 | 1.147 | 618.1 | 1108 | 42.15 | 0.556 | 67.1 | 89.3 | 10.2 |
| | 230.0 | 238.6 | 288.2 | 3.338 | 3.000 | 1.105 | 685.3 | 1091 | 46.16 | 0.599 | 65.2 | 89.3 | 10.2 |
| 1075 RPM | 230.0 | 229.4 | 278.4 | 3.635 | 3.313 | 1.067 | 743.7 | 1075 | 49.06 | 0.628 | 63.0 | 89.0 | 10.2 |
| | 230.0 | 228.0 | 277.0 | 3.679 | 3.360 | 1.062 | 751.5 | 1073 | 49.41 | 0.631 | 62.6 | 88.8 | 10.2 |
| | 230.0 | 217.4 | 266.5 | 4.021 | 3.732 | 1.021 | 814.3 | 1052 | 52.29 | 0.655 | 60.0 | 88.0 | 10.2 |
| | 230.0 | 208.1 | 257.4 | 4.347 | 4.090 | 0.987 | 871.4 | 1032 | 54.37 | 0.668 | 57.2 | 87.2 | 10.2 |
| | 230.0 | 197.7 | 247.8 | 4.682 | 4.475 | 0.952 | 925.9 | 1009 | 55.80 | 0.670 | 54.0 | 86.0 | 10.2 |
| BDT OZ-FT | 230.0 | 186.0 | 239.0 | 4.958 | 4.800 | 0.920 | 970.1 | 988 | 56.22 | 0.661 | 50.9 | 85.1 | 10.2 |
| | 230.0 | 183.3 | 237.3 | 5.023 | 4.877 | 0.913 | 979.0 | 983 | 55.74 | 0.652 | 49.7 | 84.7 | 10.2 |
| | 230.0 | 171.1 | 228.8 | 5.342 | 5.252 | 0.883 | 1025.7 | 955 | 55.42 | 0.630 | 45.8 | 83.5 | 10.2 |
| | 230.0 | 159.0 | 221.8 | 5.656 | 5.622 | 0.857 | 1067.8 | 925 | 53.85 | 0.593 | 41.4 | 82.1 | 10.2 |
| | 230.0 | 148.1 | 216.4 | 5.940 | 5.959 | 0.839 | 1103.8 | 893 | 52.23 | 0.555 | 37.5 | 80.8 | 10.3 |
| | 230.0 | 137.1 | 212.0 | 6.217 | 6.289 | 0.822 | 1134.0 | 857 | 49.96 | 0.510 | 33.5 | 79.3 | 10.3 |
| | 230.0 | 126.7 | 209.0 | 6.470 | 6.593 | 0.813 | 1161.3 | 820 | 47.29 | 0.461 | 29.6 | 78.0 | 10.3 |
| | 230.0 | 116.0 | 207.0 | 6.707 | 6.880 | 0.806 | 1182.4 | 778 | 43.85 | 0.406 | 25.6 | 76.6 | 10.3 |
| | 230.0 | 106.0 | 206.2 | 6.920 | 7.141 | 0.801 | 1199.6 | 733 | 40.52 | 0.353 | 22.0 | 75.4 | 10.3 |
| | 230.0 | 97.0 | 206.2 | 7.111 | 7.378 | 0.803 | 1214.8 | 686 | 36.95 | 0.302 | 18.5 | 74.3 | 10.3 |
| | 230.0 | 88.3 | 207.0 | 7.282 | 7.592 | 0.806 | 1225.5 | 635 | 33.06 | 0.250 | 15.2 | 73.2 | 10.3 |
| | 230.0 | 80.1 | 208.3 | 7.432 | 7.780 | 0.811 | 1232.2 | 580 | 29.49 | 0.204 | 12.3 | 72.1 | 10.3 |
| | 230.0 | 72.3 | 209.6 | 7.567 | 7.953 | 0.816 | 1238.1 | 520 | 25.84 | 0.160 | 9.6 | 71.1 | 10.3 |
| | 230.0 | 64.6 | 211.0 | 7.680 | 8.098 | 0.819 | 1239.4 | 456 | 22.35 | 0.121 | 7.3 | 70.2 | 10.3 |
| | 230.0 | 57.4 | 213.6 | 7.773 | 8.226 | 0.827 | 1242.3 | 386 | 18.30 | 0.084 | 5.1 | 69.5 | 10.3 |
| | 230.0 | 51.1 | 216.1 | 7.845 | 8.325 | 0.835 | 1244.9 | 316 | 16.36 | 0.061 | 3.7 | 69.0 | 10.3 |
| | 230.0 | 46.1 | 219.3 | 7.905 | 8.408 | 0.845 | 1248.0 | 237 | 13.51 | 0.038 | 2.3 | 68.6 | 10.2 |
| | 230.0 | 41.7 | 221.9 | 7.943 | 8.470 | 0.857 | 1246.2 | 156 | 11.29 | 0.021 | 1.3 | 68.2 | 10.2 |

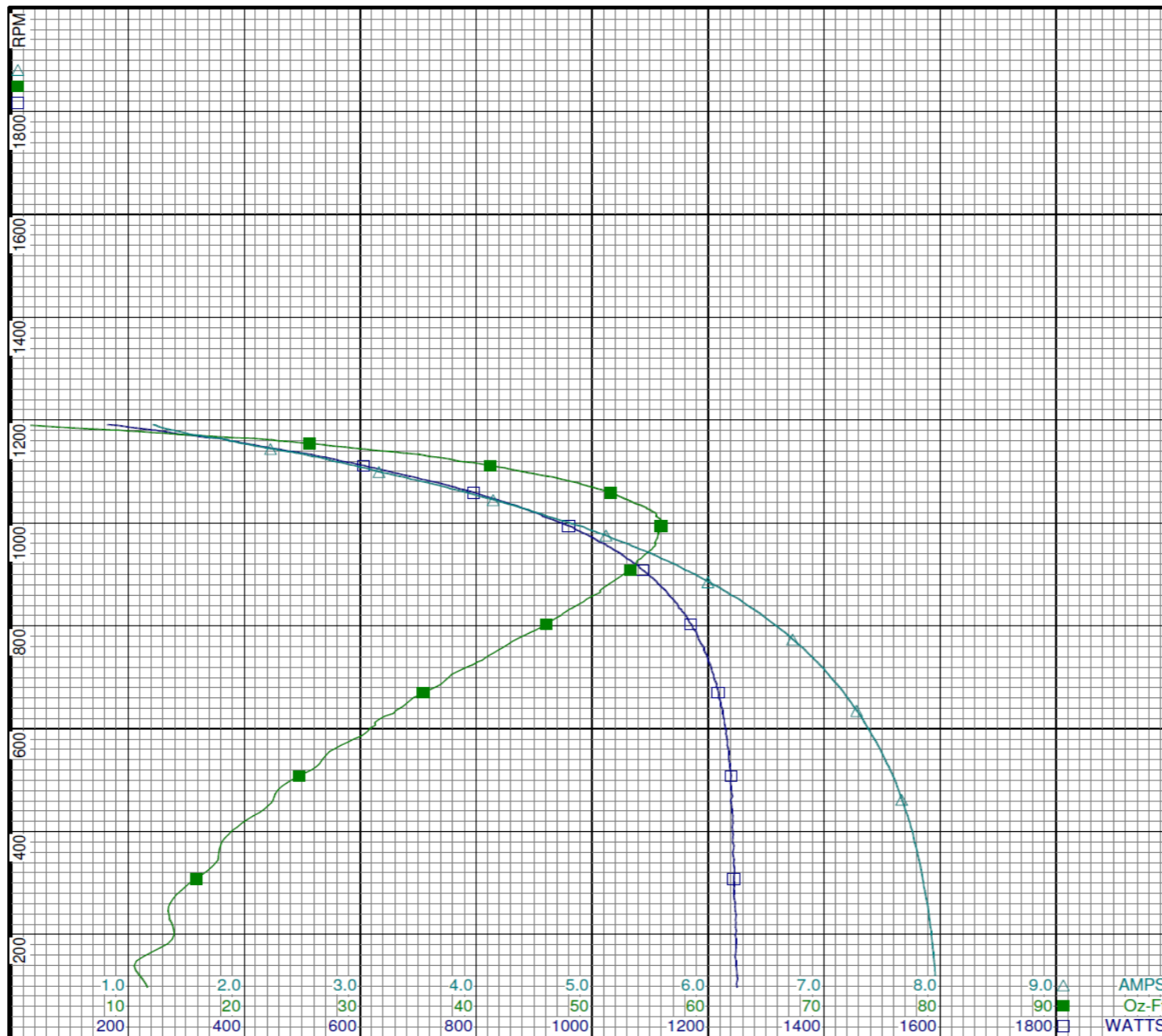| DRAWING NO. | PAGE 3 of 6 | REV. |
|---|---|---|
| 4M184BH | | - |

# Performance Data

| 4M184BH | REV. - |
|---------|--------|



**Curve Descriptions:**

Motor(1) Test 8 Run 230V 60 Hz 6P
M2 10ufd Run

□ SPEED vs WATTS
■ SPEED vs TORQUE
△ SPEED vs ILine

**Motor Ratings:**
4M184BH

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 △ | AMPS |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 ■ | Oz-Ft |
| 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 □ | WATTS |

| DRAWING NO. | PAGE 4 of 6 | REV. |
|-------------|-------------|------|
| | 4M184BH | - |

# Performance Data

**Dayton**®

| 4M184BH | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | 4M184BH |
| Motor ID: | 1 OF 1 |
| Poles: | 6 |
| Volts: | 208/230 |
| Frequency: | 60 |
| HP: | 3/4 |
| Speed: | 1075/3SPD |
| Phase: | 1 |
| Protector: | |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 10 |
| Test Number: | 12 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | |
| Volts: | 230 | Tested: | 2/5/2007 9:48:08 AM |
| Hz: | 60 | Tested By: | Sharp, Gerald |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | | Bearing Friction: | -1.86 Oz-Ft |
| Speed Conn: | M3 | Windage Torque: | -1.93 Oz-Ft |
| TestBoard: | Amtps Performance Fixture #3 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Imain(A) | Iaux(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) | Cap |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 230.0 | 290.6 | 359.6 | 0.795 | 1.447 | 1.370 | 132.2 | 1190 | 0.00 | 0.000 | 0.0 | 72.4 | 10.1 |
| | 230.0 | 285.1 | 343.8 | 1.005 | 1.277 | 1.312 | 197.4 | 1177 | 7.59 | 0.106 | 40.2 | 85.4 | 10.1 |
| | 230.0 | 272.4 | 319.0 | 1.332 | 1.272 | 1.216 | 274.7 | 1162 | 15.79 | 0.218 | 59.3 | 89.6 | 10.1 |
| | 230.0 | 253.7 | 296.4 | 1.556 | 1.393 | 1.134 | 321.3 | 1150 | 20.34 | 0.278 | 64.7 | 89.8 | 10.2 |
| | 230.0 | 243.2 | 277.4 | 1.835 | 1.596 | 1.065 | 376.9 | 1136 | 25.11 | 0.339 | 67.2 | 89.3 | 10.2 |
| | 230.0 | 232.3 | 264.0 | 2.093 | 1.823 | 1.015 | 430.4 | 1121 | 28.91 | 0.386 | 66.9 | 89.4 | 10.2 |
| | 230.0 | 223.8 | 255.0 | 2.334 | 2.055 | 0.977 | 481.1 | 1105 | 32.18 | 0.423 | 65.6 | 89.6 | 10.2 |
| | 230.0 | 215.4 | 245.4 | 2.585 | 2.313 | 0.939 | 530.0 | 1088 | 34.88 | 0.452 | 63.6 | 89.1 | 10.2 |
| 1075 RPM | 230.0 | 208.2 | 237.6 | 2.778 | 2.520 | 0.910 | 566.4 | 1075 | 36.76 | 0.470 | 62.0 | 88.6 | 10.2 |
| | 230.0 | 205.4 | 234.6 | 2.857 | 2.607 | 0.898 | 580.6 | 1069 | 37.24 | 0.474 | 60.9 | 88.3 | 10.2 |
| | 230.0 | 196.6 | 225.2 | 3.108 | 2.886 | 0.863 | 625.1 | 1049 | 39.04 | 0.488 | 58.2 | 87.4 | 10.2 |
| | 230.0 | 187.7 | 216.7 | 3.354 | 3.166 | 0.830 | 666.4 | 1029 | 40.32 | 0.494 | 55.3 | 86.4 | 10.2 |
| | 230.0 | 178.5 | 208.2 | 3.610 | 3.461 | 0.800 | 708.0 | 1005 | 41.08 | 0.491 | 51.8 | 85.3 | 10.2 |
| BDT OZ-FT | 230.0 | 177.3 | 207.3 | 3.639 | 3.495 | 0.797 | 712.9 | 1003 | 41.14 | 0.491 | 51.4 | 85.2 | 10.2 |
| | 230.0 | 167.9 | 199.9 | 3.859 | 3.758 | 0.770 | 744.5 | 979 | 40.76 | 0.475 | 47.6 | 83.9 | 10.2 |
| | 230.0 | 158.4 | 193.6 | 4.086 | 4.031 | 0.747 | 776.1 | 953 | 40.27 | 0.457 | 43.9 | 82.6 | 10.2 |
| | 230.0 | 148.7 | 188.0 | 4.314 | 4.306 | 0.726 | 805.5 | 922 | 39.05 | 0.429 | 39.7 | 81.2 | 10.2 |
| | 230.0 | 139.2 | 183.7 | 4.528 | 4.566 | 0.710 | 830.9 | 890 | 37.60 | 0.398 | 35.8 | 79.8 | 10.3 |
| | 230.0 | 129.7 | 180.6 | 4.716 | 4.813 | 0.701 | 848.8 | 854 | 35.54 | 0.361 | 31.7 | 78.3 | 10.3 |
| | 230.0 | 121.1 | 178.6 | 4.895 | 5.035 | 0.694 | 866.2 | 817 | 33.48 | 0.326 | 28.0 | 76.9 | 10.3 |
| | 230.0 | 112.6 | 177.6 | 5.068 | 5.253 | 0.692 | 882.0 | 774 | 30.93 | 0.285 | 24.1 | 75.7 | 10.3 |
| | 230.0 | 104.8 | 177.7 | 5.222 | 5.446 | 0.692 | 893.3 | 729 | 28.27 | 0.245 | 20.5 | 74.4 | 10.3 |
| | 230.0 | 97.1 | 178.2 | 5.358 | 5.618 | 0.695 | 901.9 | 681 | 25.85 | 0.210 | 17.3 | 73.2 | 10.3 |
| | 230.0 | 90.0 | 179.2 | 5.480 | 5.777 | 0.699 | 908.3 | 630 | 23.33 | 0.175 | 14.4 | 72.1 | 10.3 |
| | 230.0 | 83.3 | 180.4 | 5.588 | 5.917 | 0.704 | 913.0 | 574 | 20.62 | 0.141 | 11.5 | 71.0 | 10.3 |
| | 230.0 | 76.9 | 181.6 | 5.683 | 6.043 | 0.706 | 915.3 | 514 | 17.89 | 0.110 | 8.9 | 70.0 | 10.3 |
| | 230.0 | 70.9 | 182.6 | 5.762 | 6.150 | 0.707 | 915.3 | 449 | 15.23 | 0.081 | 6.6 | 69.1 | 10.3 |
| | 230.0 | 64.8 | 184.9 | 5.824 | 6.241 | 0.715 | 916.4 | 381 | 12.33 | 0.056 | 4.6 | 68.4 | 10.3 |
| | 230.0 | 59.4 | 187.4 | 5.874 | 6.313 | 0.722 | 917.7 | 309 | 11.95 | 0.044 | 3.6 | 67.9 | 10.2 |
| | 230.0 | 55.2 | 190.0 | 5.918 | 6.374 | 0.731 | 920.1 | 230 | 8.79 | 0.024 | 2.0 | 67.6 | 10.2 |
| | 230.0 | 50.7 | 192.8 | 5.949 | 6.423 | 0.742 | 920.3 | 148 | 9.29 | 0.016 | 1.3 | 67.3 | 10.2 |

| DRAWING NO. | PAGE 5 of 6 | REV. |
|---|---|---|
| 4M184BH | | - |

# Performance Data

**Dayton**®

**Dayton**®
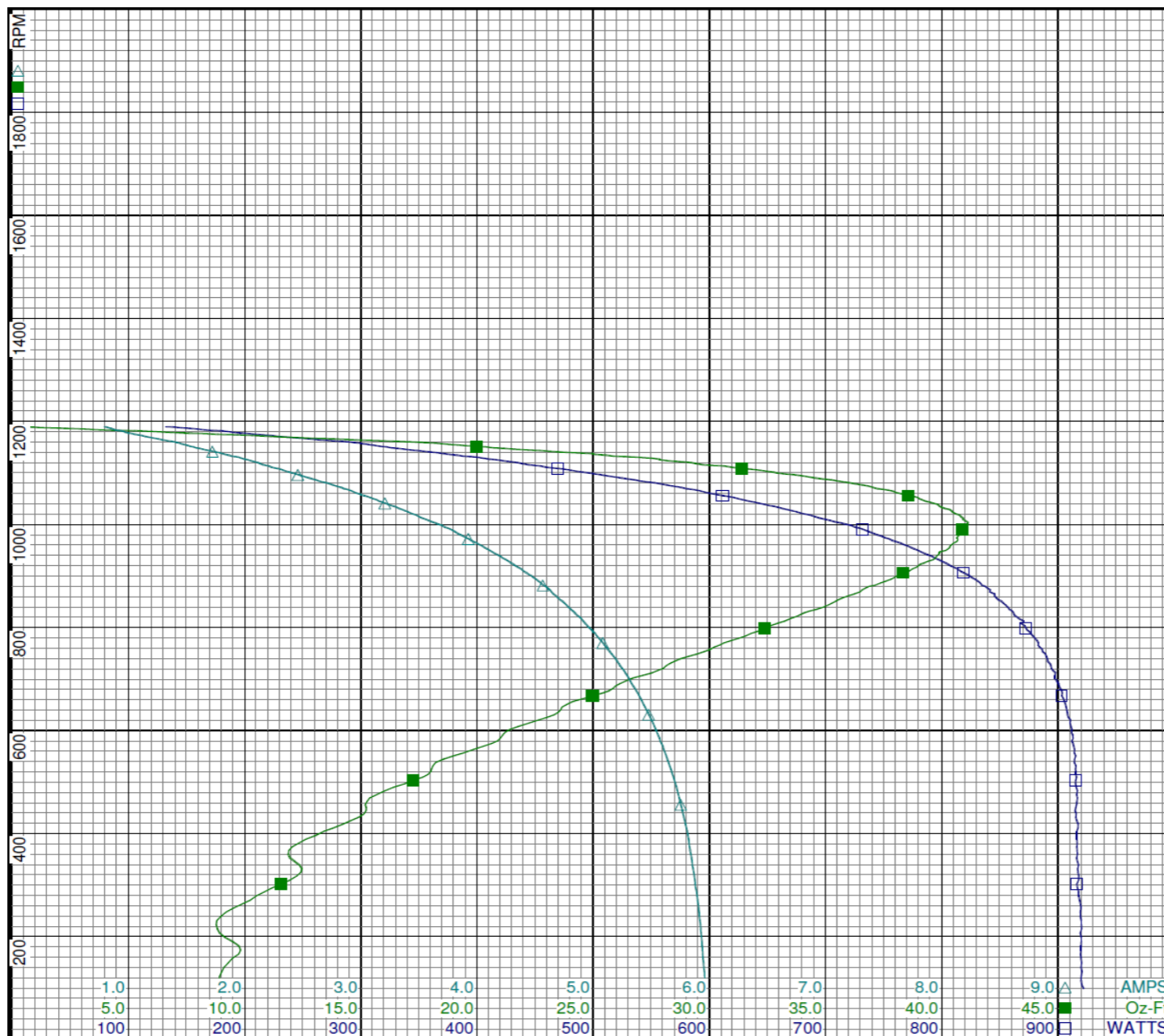
Curve Descriptions:

Motor(1) Test 12 Run 230V 60 Hz 6P
M3 10ufd Run
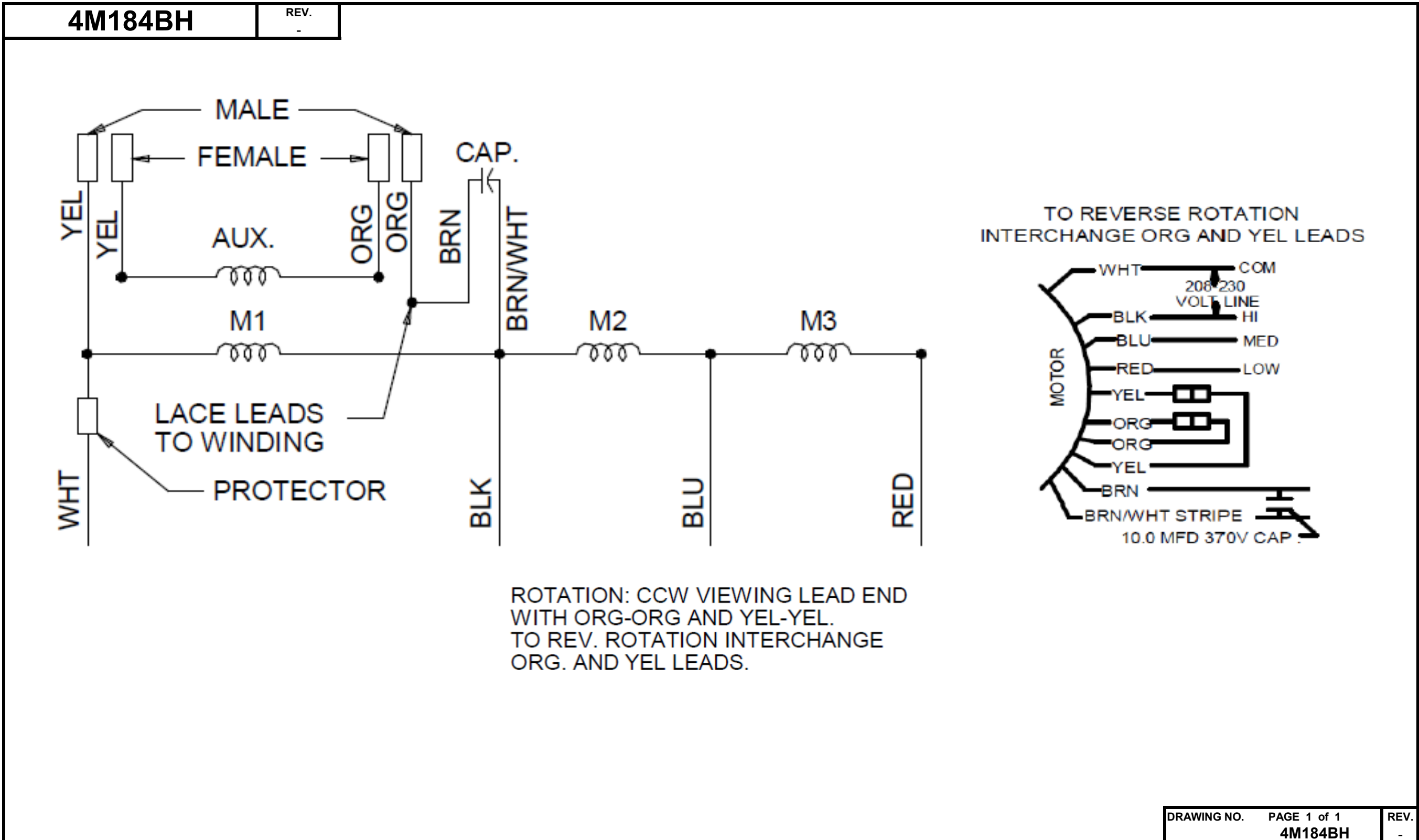□ SPEED vs WATTS
■ SPEED vs TORQUE
△ SPEED vs ILine



Motor Ratings:
4M184BH

| | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 △ | AMPS |
| | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 45.0 ■ | Oz-Ft |
| | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 □ | WATTS |

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

# Wiring Diagram

**4M184BH**

REV. -



MALE
FEMALE
CAP.
YEL
YEL
ORG
ORG
BRN
BRN/WHT
AUX.
M1
M2
M3
LACE LEADS TO WINDING
WHT
PROTECTOR
BLK
BLU
RED

ROTATION: CCW VIEWING LEAD END
WITH ORG-ORG AND YEL-YEL.
TO REV. ROTATION INTERCHANGE
ORG. AND YEL LEADS.

TO REVERSE ROTATION
INTERCHANGE ORG AND YEL LEADS

MOTOR
WHT — COM
208-230 VOLT LINE
BLK — HI
BLU — MED
RED — LOW
YEL
ORG
ORG
YEL
BRN
BRN/WHT STRIPE
10.0 MFD 370V CAP.

| DRAWING NO. | PAGE 1 of 1 | REV. |
|---|---|---|
| 4M184BH | | - |

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

# Dayton®

# DIRECT DRIVE BLOWER MOTOR

BAR CODE

Part No 4M184BH

**HP:** 3/4
**VOLTS:** 208-230
**AMPS**: 4.6
**RPM:** 1075 / 3SPD
**DUTY:** CONT
**SF:** 1.0
**KVA CODE:**
**ENCL:** OAO
**THERMALLY PROTECTED:** AUTO

**PH:** 1
**HZ:** 60
**FR:** 48YZ
**INS CL:** B
**AMB:** 40 ℃
**SFA:**
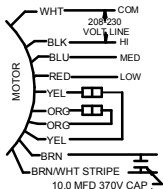
MFG. NO. [    ]   PROT. CODE : 7A000   AVG.F.L EFF.

**MTR REF: K55HXSTR-2351**

E37403        258501

**Disconnect Power Before Making Any Electrical Connections or Changes**

TO REVERSE ROTATION
INTERCHANGE ORG AND YEL LEADS

WHT — COM
BLK — HI
BLU — MED
RED — LOW
YEL
ORG
ORG
YEL
BRN
BRN/WHT STRIPE
208-230 VOLT LINE
MOTOR
10.0 MFD 370V CAP

**Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA**   Made in China