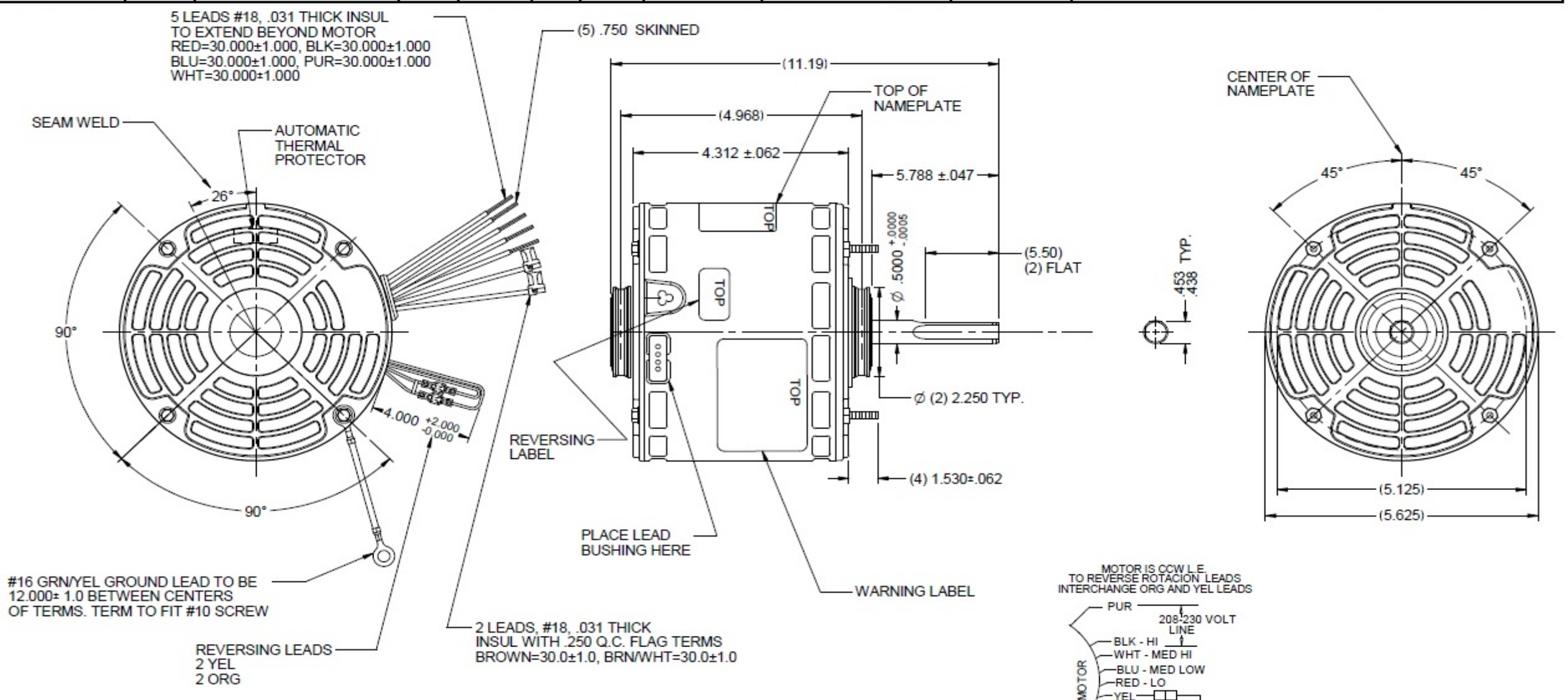
# Dimensional Drawing

## 3LU72BG

REV. -

| MODEL | REF | CUSTOMER | HP | VOLTS | AMPS | HZ | RPM | ROTATION | CUSTOMER PN | DESCRIPTION / REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| K55HXLNY-2516 | | GRAINGER | 1/6 | 208-230 | 1.2 | 60 | 1075/ 4SPD | CCW. LEAD END REV | 3LU72BG | DIRECT DRIVE BLOWER MOTOR, 48YZ, OPAO, SAB. |




NOTE:

-KIT - 2 1/2" RING CONVERSION SHIPPED IN CARTON

| DRAWING NO. | PAGE 1 of 1 | REV. |
|---|---|---|
| 3LU72BG | | - |

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

©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

| Line Voltage | 208 | 230 | VAC |
|---|---|---|---|
| **1ST SPEED** | | | |
| LRT | 5.998 | 6.849 | OZ-FT |
| LRA | 2.044 | 2.289 | AMP |
| PUT | 5.509 | 6.849 | OZ-FT |
| | | | |
| BDT | 16.47 | 20.03 | OZ-FT |
| | | | |
| FLT | 13.122 | 15.847 | OZ-FT |
| FLA | 1.025 | 1.1 | AMP |
| FLW | 201.2 | 240.1 | WATT |
| FL RPM | 1036 | 1048 | RPM |
| **2ND SPEED** | | | |
| LRT | 2.531 | 4.148 | OZ-FT |
| LRA | 1.359 | 1.523 | AMP |
| PUT | 2.531 | 4.047 | OZ-FT |
| | | | |
| BDT | 10.247 | 12.981 | OZ-FT |
| | | | |
| FLT | 7.552 | 9.192 | OZ-FT |
| FLA | 0.6 | 0.676 | AMP |
| FLW | 119.4 | 148.6 | WATT |
| FL RPM | 1066 | 1063 | RPM |
| **3RD SPEED** | | | |
| LRT | 1.601 | 2.549 | OZ-FT |
| LRA | 1.127 | 1.27 | AMP |
| PUT | 1.601 | 2.549 | OZ-FT |
| | | | |
| BDT | 8.322 | 10.733 | OZ-FT |
| | | | |
| FLT | 5.971 | 7.269 | OZ-FT |
| FLA | 0.53 | 0.529 | AMP |
| FLW | 104.42 | 116.5 | WATT |
| FL RPM | 1053 | 1076 | RPM |

| Line Voltage | 208 | 230 | VAC |
|---|---|---|---|
| **4TH SPEED** | | | |
| LRT | 1.019 | 1.834 | OZ-FT |
| LRA | 0.949 | 1.073 | AMP |
| PUT | 0.92 | 1.834 | OZ-FT |
| | | | |
| BDT | 6.953 | 9.227 | OZ-FT |
| | | | |
| FLT | 4.909 | 6.03 | OZ-FT |
| FLA | 0.429 | 0.439 | AMP |
| FLW | 84.59 | 96.46 | WATT |
| FL RPM | 1062 | 1079 | RPM |



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

©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Start | Run Cap: | 5 |
| Test Number: | 15 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.3 Deg C 51 % RH 963 hPa |
| Volts: | 208 | Tested: | 6/29/2016 4:13:27 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | M1 | Bearing Friction: | -0.57 Oz-Ft |
| Speed Conn: | M1 | Windage Torque: | -1.17 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

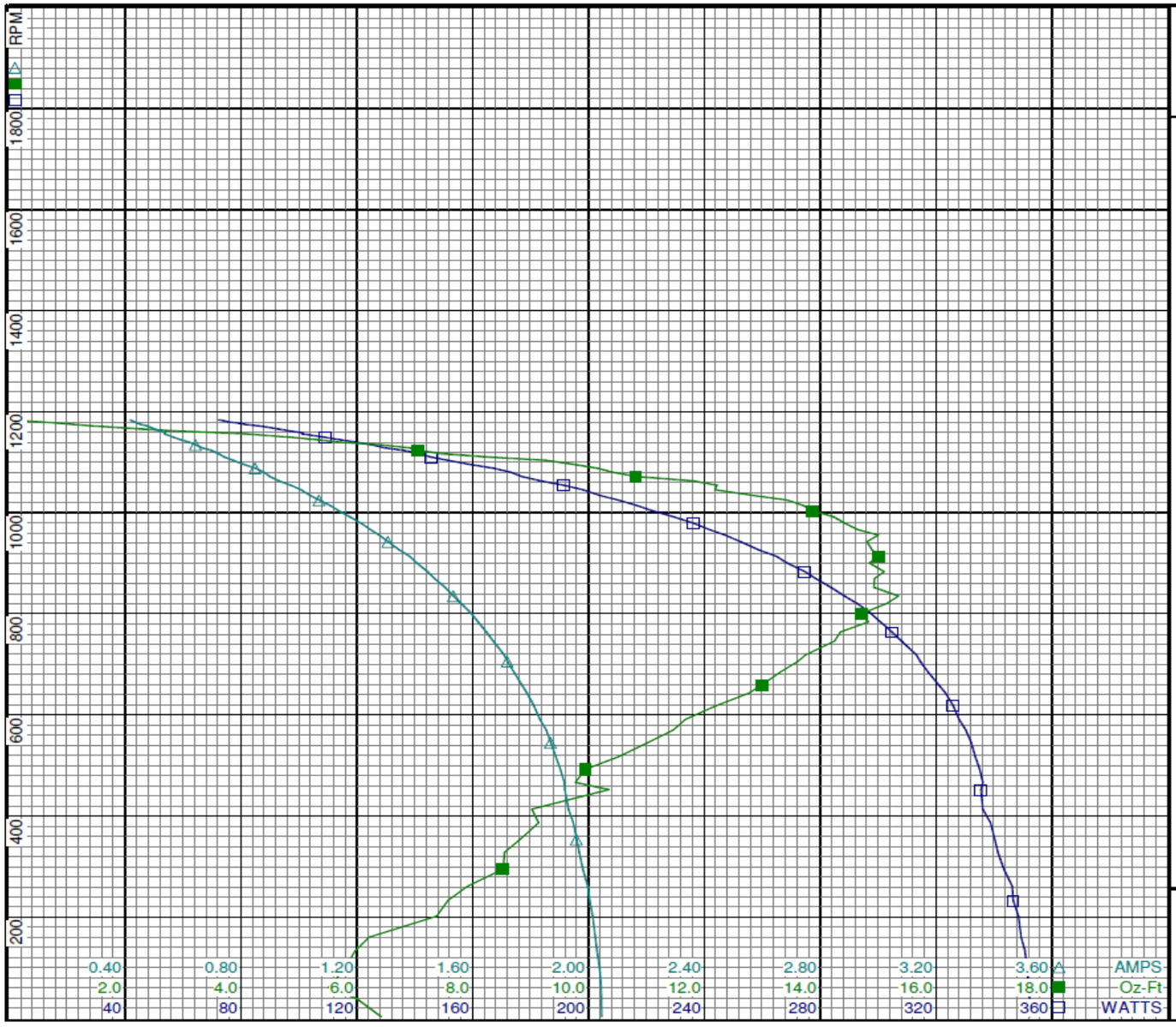
| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 208.0 | 64.5 | 252.0 | 2.044 | 352.3 | 38 | 5.998 | 0.003 | 0.6 | 82.8 |
| PUT OZ-FT | **208.0** | **64.8** | **251.1** | **2.044** | **352.1** | **60** | **5.509** | **0.004** | **0.8** | **82.8** |
| | 208.0 | 65.1 | 249.7 | 2.038 | 351.4 | 97 | 5.786 | 0.007 | 1.4 | 82.9 |
| | 208.0 | 66.6 | 247.3 | 2.023 | 349.4 | 160 | 6.215 | 0.012 | 2.5 | 83.0 |
| | 208.0 | 68.6 | 244.3 | 2.004 | 346.7 | 233 | 7.572 | 0.021 | 4.5 | 83.2 |
| | 208.0 | 70.7 | 241.8 | 1.980 | 343.4 | 295 | 8.527 | 0.030 | 6.5 | 83.4 |
| | 208.0 | 72.9 | 239.4 | 1.959 | 340.3 | 353 | 8.822 | 0.037 | 8.1 | 83.5 |
| | 208.0 | 76.4 | 237.3 | 1.931 | 336.1 | 413 | 9.021 | 0.044 | 9.8 | 83.7 |
| | 208.0 | 81.2 | 237.2 | 1.917 | 336.1 | 466 | 9.774 | 0.054 | 12.0 | 84.3 |
| | 208.0 | 86.5 | 237.5 | 1.888 | 333.6 | 517 | 10.516 | 0.065 | 14.5 | 85.0 |
| | 208.0 | 92.4 | 238.2 | 1.853 | 330.3 | 570 | 11.463 | 0.078 | 17.6 | 85.7 |
| | 208.0 | 98.8 | 238.8 | 1.811 | 325.9 | 618 | 12.203 | 0.090 | 20.5 | 86.5 |
| | 208.0 | 104.4 | 239.9 | 1.770 | 320.9 | 659 | 12.993 | 0.102 | 23.7 | 87.2 |
| | 208.0 | 111.1 | 241.4 | 1.720 | 314.5 | 706 | 13.611 | 0.114 | 27.1 | 87.9 |
| | 208.0 | 117.9 | 243.4 | 1.671 | 308.1 | 746 | 14.245 | 0.126 | 30.6 | 88.6 |
| | 208.0 | 124.7 | 245.9 | 1.619 | 300.8 | 784 | 14.832 | 0.138 | 34.3 | 89.3 |
| | 208.0 | 132.6 | 249.1 | 1.560 | 292.8 | 820 | 15.146 | 0.148 | 37.7 | 90.2 |
| | 208.0 | 139.5 | 252.5 | 1.504 | 283.7 | 852 | 14.927 | 0.151 | 39.8 | 90.7 |
| | 208.0 | 147.1 | 256.5 | 1.445 | 274.8 | 883 | 15.104 | 0.159 | 43.1 | 91.4 |
| | 208.0 | 155.2 | 261.4 | 1.382 | 264.8 | 914 | 15.009 | 0.163 | 46.0 | 92.1 |
| | 208.0 | 163.6 | 267.3 | 1.308 | 252.4 | 943 | 14.807 | 0.166 | 49.1 | 92.8 |
| | 208.0 | 172.1 | 272.7 | 1.248 | 241.9 | 966 | 14.652 | 0.169 | 52.0 | 93.2 |
| | 208.0 | 179.6 | 279.5 | 1.175 | 229.3 | 992 | 14.229 | 0.168 | 54.7 | 93.8 |
| | 208.0 | 187.6 | 285.5 | 1.107 | 216.5 | 1015 | 13.704 | 0.166 | 57.0 | 94.1 |
| | 208.0 | 195.8 | 293.0 | 1.038 | 203.9 | 1034 | 12.843 | 0.158 | 57.8 | 94.4 |
| | 208.0 | 203.3 | 299.9 | 0.972 | 191.5 | 1054 | 12.217 | 0.153 | 59.8 | 94.7 |
| | 208.0 | 211.8 | 307.8 | 0.900 | 176.9 | 1072 | 10.818 | 0.138 | 58.2 | 94.5 |
| | 208.0 | 217.4 | 313.9 | 0.849 | 167.2 | 1088 | 10.154 | 0.132 | 58.7 | 94.6 |
| | 208.0 | 224.4 | 322.8 | 0.773 | 151.4 | 1104 | 9.259 | 0.122 | 59.9 | 94.2 |
| | 208.0 | 231.5 | 329.7 | 0.723 | 141.5 | 1117 | 7.479 | 0.099 | 52.4 | 94.1 |
| | 208.0 | 236.3 | 336.4 | 0.666 | 129.8 | 1128 | 6.913 | 0.093 | 53.4 | 93.7 |
| | 208.0 | 243.9 | 346.1 | 0.620 | 119.8 | 1140 | 5.675 | 0.077 | 47.9 | 92.9 |
| | 208.0 | 249.2 | 356.7 | 0.568 | 109.1 | 1149 | 4.888 | 0.067 | 45.7 | 92.4 |
| | 208.0 | 255.3 | 366.2 | 0.539 | 101.3 | 1158 | 3.667 | 0.051 | 37.2 | 90.4 |
| | 208.0 | 259.7 | 372.4 | 0.502 | 93.0 | 1165 | 2.314 | 0.032 | 25.8 | 89.1 |
| | 208.0 | 262.6 | 376.7 | 0.476 | 86.1 | 1172 | 1.421 | 0.020 | 17.2 | 87.0 |
| | 208.0 | 264.7 | 380.4 | 0.442 | 79.2 | 1177 | 0.850 | 0.012 | 11.2 | 86.1 |
| | 208.0 | 266.5 | 383.4 | 0.421 | 73.6 | 1183 | 0.142 | 0.002 | 2.0 | 83.9 |
| | 208.0 | 266.8 | 383.9 | 0.417 | 72.3 | 1184 | 0.000 | 0.000 | 0.0 | 83.4 |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

**Curve Descriptions:**

Motor(1) Test 15 Start 208V 60 Hz 6P
M1 M1 5ufd Run

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

**Motor Ratings:**

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 2 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

**3LU72BG** | REV. -

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 5 |
| Test Number: | 1 | Start Cap: | 0ufd |
| Poles: | 6 | Environment: | 23.3 Deg C 51 % RH 963 hPa |
| Volts: | 208 | Tested: | 6/29/2016 3:58:58 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | REV | Gear Ratio: | 1:1 |
| Special Cond: | M1 - HIGH SPEED | Bearing Friction: | -0.60 Oz-Ft |
| Speed Conn: | M1 | Windage Torque: | -1.15 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 208.0 | 267.1 | 384.2 | 0.415 | 70.7 | 1182 | 0.000 | 0.000 | 0.0 | 81.8 |
| | 208.0 | 265.0 | 381.1 | 0.438 | 77.0 | 1178 | 0.860 | 0.012 | 11.7 | 84.6 |
| | 208.0 | 262.7 | 377.6 | 0.464 | 83.9 | 1172 | 1.825 | 0.025 | 22.6 | 86.9 |
| | 208.0 | 259.5 | 372.9 | 0.494 | 91.8 | 1165 | 2.867 | 0.040 | 32.3 | 89.3 |
| | 208.0 | 255.5 | 366.6 | 0.535 | 100.2 | 1158 | 3.620 | 0.050 | 37.2 | 90.0 |
| | 208.0 | 250.1 | 358.1 | 0.567 | 107.9 | 1149 | 4.881 | 0.067 | 46.2 | 91.5 |
| | 208.0 | 243.3 | 347.9 | 0.608 | 117.5 | 1139 | 5.995 | 0.081 | 51.6 | 92.9 |
| | 208.0 | 236.9 | 337.8 | 0.664 | 129.2 | 1128 | 6.589 | 0.088 | 51.1 | 93.5 |
| | 208.0 | 230.0 | 328.7 | 0.723 | 141.7 | 1114 | 8.038 | 0.107 | 56.1 | 94.3 |
| | 208.0 | 223.8 | 322.2 | 0.778 | 152.5 | 1103 | 9.079 | 0.119 | 58.3 | 94.3 |
| 10.006 OZ-FT | **208.0** | **221.8** | **318.9** | **0.805** | **157.9** | **1097** | **10.006** | **0.131** | **61.7** | **94.4** |
| | 208.0 | 218.3 | 315.5 | 0.831 | 163.4 | 1089 | 10.428 | 0.135 | 61.7 | 94.5 |
| | 208.0 | 211.6 | 308.7 | 0.891 | 175.3 | 1073 | 11.163 | 0.143 | 60.7 | 94.6 |
| | 208.0 | 203.9 | 300.6 | 0.963 | 189.4 | 1056 | 12.697 | 0.160 | 62.9 | 94.5 |
| 13.122 OZ-FT | **208.0** | **196.4** | **293.9** | **1.025** | **201.2** | **1036** | **13.122** | **0.162** | **60.0** | **94.3** |
| | 208.0 | 196.4 | 293.9 | 1.025 | 201.2 | 1036 | 13.122 | 0.162 | 60.0 | 94.3 |
| 14.42 OZ-FT | **208.0** | **187.5** | **286.5** | **1.096** | **214.7** | **1017** | **14.420** | **0.175** | **60.6** | **94.2** |
| | 208.0 | 187.1 | 286.3 | 1.098 | 215.1 | 1016 | 14.492 | 0.175 | 60.8 | 94.2 |
| | 208.0 | 179.9 | 280.1 | 1.165 | 227.8 | 994 | 14.662 | 0.174 | 56.8 | 94.0 |
| | 208.0 | 172.0 | 273.2 | 1.238 | 240.7 | 969 | 15.176 | 0.175 | 54.3 | 93.5 |
| | 208.0 | 163.7 | 267.6 | 1.298 | 251.1 | 944 | 15.861 | 0.178 | 53.0 | 93.0 |
| | 208.0 | 155.2 | 261.8 | 1.372 | 263.3 | 916 | 16.327 | 0.178 | 50.4 | 92.3 |
| BDT OZ-FT | **208.0** | **146.7** | **256.9** | **1.436** | **273.9** | **886** | **16.470** | **0.174** | **47.3** | **91.7** |
| | 208.0 | 146.7 | 256.9 | 1.436 | 273.9 | 886 | 16.470 | 0.174 | 47.3 | 91.7 |
| | 208.0 | 139.5 | 252.7 | 1.502 | 284.0 | 854 | 16.219 | 0.165 | 43.3 | 90.9 |
| | 208.0 | 132.2 | 248.8 | 1.563 | 293.4 | 822 | 15.775 | 0.154 | 39.2 | 90.2 |
| | 208.0 | 124.8 | 245.8 | 1.618 | 300.6 | 785 | 15.488 | 0.145 | 35.9 | 89.4 |
| | 208.0 | 117.7 | 243.4 | 1.673 | 308.5 | 747 | 15.195 | 0.135 | 32.7 | 88.7 |
| | 208.0 | 110.8 | 241.4 | 1.720 | 314.7 | 709 | 14.750 | 0.124 | 29.5 | 88.0 |
| | 208.0 | 104.6 | 239.9 | 1.767 | 321.3 | 665 | 14.063 | 0.111 | 25.8 | 87.4 |
| | 208.0 | 98.6 | 238.6 | 1.811 | 326.4 | 620 | 13.428 | 0.099 | 22.7 | 86.7 |
| | 208.0 | 92.9 | 238.2 | 1.848 | 330.4 | 576 | 12.680 | 0.087 | 19.6 | 85.9 |
| | 208.0 | 86.9 | 237.6 | 1.881 | 333.7 | 522 | 11.939 | 0.074 | 16.6 | 85.3 |
| | 208.0 | 81.2 | 237.0 | 1.906 | 335.4 | 471 | 11.152 | 0.062 | 13.9 | 84.6 |
| | 208.0 | 76.5 | 237.4 | 1.928 | 336.6 | 417 | 10.502 | 0.052 | 11.6 | 83.9 |
| | 208.0 | 73.3 | 239.0 | 1.945 | 338.3 | 358 | 10.068 | 0.043 | 9.5 | 83.6 |
| | 208.0 | 70.9 | 241.5 | 1.973 | 342.5 | 298 | 9.799 | 0.035 | 7.6 | 83.5 |
| | 208.0 | 68.9 | 244.1 | 1.997 | 346.7 | 235 | 9.192 | 0.026 | 5.5 | 83.5 |
| | 208.0 | 66.8 | 246.7 | 2.011 | 348.0 | 167 | 8.132 | 0.016 | 3.5 | 83.2 |
| | 208.0 | 65.5 | 249.6 | 2.022 | 350.2 | 98 | 7.297 | 0.009 | 1.8 | 83.3 |

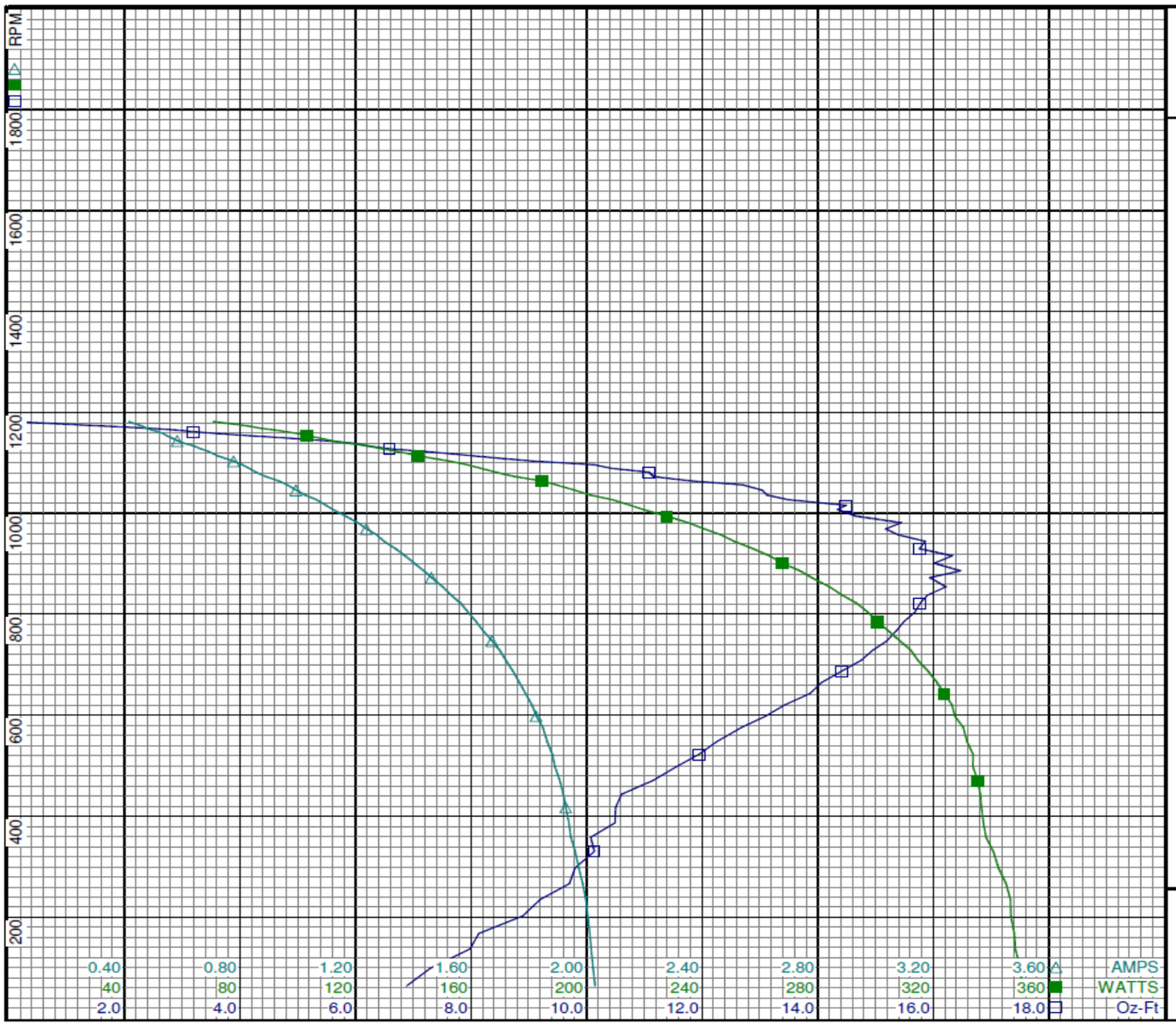




©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

Curve Descriptions:

Motor(1) Test 1 Run 208V 60 Hz 6P
M1 - HIGH SPEED M1 REV 5ufd Run
- SPEED vs TORQUE
- SPEED vs WATTS
- SPEED vs ILine

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 4 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Start | Run Cap: | 5 |
| Test Number: | 16 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.7 Deg C 54 % RH 963 hPa |
| Volts: | 208 | Tested: | 6/29/2016 4:22:45 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | M2 | Bearing Friction: | -0.53 Oz-Ft |
| Speed Conn: | M2 | Windage Torque: | -1.41 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

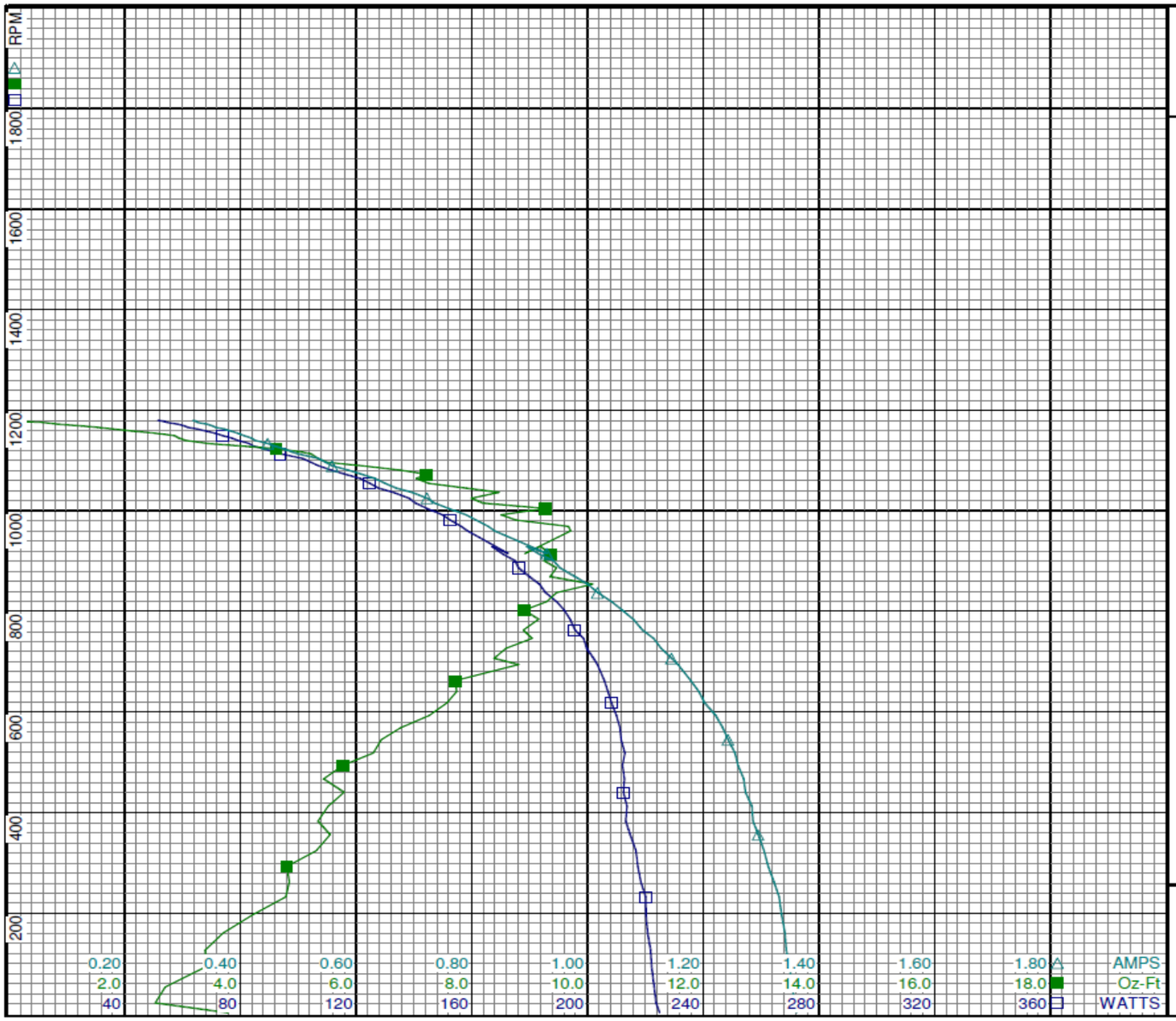
| Special Points PUT OZ-FT | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | **208.0** | **54.5** | **205.5** | **1.359** | **223.7** | **21** | **2.531** | **0.001** | **0.2** | **79.2** |
| | 208.0 | 54.5 | 205.5 | 1.359 | 223.7 | 21 | 2.531 | 0.001 | 0.2 | 79.2 |
| | 208.0 | 55.0 | 202.8 | 1.350 | 222.2 | 94 | 3.422 | 0.004 | 1.3 | 79.1 |
| | 208.0 | 55.8 | 200.2 | 1.342 | 220.7 | 160 | 3.706 | 0.007 | 2.4 | 79.1 |
| | 208.0 | 57.3 | 197.5 | 1.331 | 220.1 | 232 | 4.785 | 0.013 | 4.5 | 79.5 |
| | 208.0 | 58.2 | 195.3 | 1.312 | 217.4 | 293 | 4.807 | 0.017 | 5.7 | 79.6 |
| | 208.0 | 59.7 | 192.7 | 1.295 | 214.8 | 356 | 5.552 | 0.024 | 8.2 | 79.7 |
| | 208.0 | 61.7 | 190.9 | 1.284 | 213.6 | 412 | 5.517 | 0.027 | 9.5 | 80.0 |
| | 208.0 | 65.6 | 190.5 | 1.270 | 212.7 | 467 | 5.440 | 0.030 | 10.6 | 80.5 |
| | 208.0 | 70.1 | 191.3 | 1.255 | 212.9 | 518 | 6.298 | 0.039 | 13.6 | 81.6 |
| | 208.0 | 74.7 | 191.7 | 1.234 | 211.2 | 568 | 6.767 | 0.046 | 16.2 | 82.3 |
| | 208.0 | 79.6 | 191.9 | 1.203 | 208.3 | 618 | 7.568 | 0.056 | 19.9 | 83.3 |
| | 208.0 | 84.5 | 192.7 | 1.179 | 205.8 | 662 | 7.719 | 0.061 | 22.1 | 84.0 |
| | 208.0 | 89.6 | 193.7 | 1.145 | 202.1 | 706 | 8.384 | 0.071 | 26.0 | 84.8 |
| | 208.0 | 95.2 | 195.2 | 1.114 | 198.7 | 746 | 9.043 | 0.080 | 30.2 | 85.7 |
| | 208.0 | 100.8 | 197.0 | 1.079 | 194.0 | 784 | 9.156 | 0.085 | 32.9 | 86.4 |
| | 208.0 | 106.0 | 199.2 | 1.042 | 189.4 | 819 | 9.293 | 0.091 | 35.7 | 87.4 |
| | 208.0 | 112.6 | 202.4 | 1.001 | 183.4 | 854 | 10.088 | 0.103 | 41.7 | 88.1 |
| | 208.0 | 118.8 | 205.8 | 0.952 | 176.2 | 886 | 9.464 | 0.100 | 42.3 | 88.9 |
| | 208.0 | 125.4 | 209.4 | 0.916 | 170.7 | 914 | 9.366 | 0.102 | 44.5 | 89.6 |
| | 208.0 | 127.1 | 209.3 | 0.930 | 172.5 | 915 | 8.922 | 0.097 | 42.0 | 89.2 |
| | 208.0 | 138.4 | 218.4 | 0.829 | 156.3 | 969 | 9.672 | 0.112 | 53.2 | 90.7 |
| | 208.0 | 144.6 | 223.1 | 0.790 | 149.9 | 992 | 8.505 | 0.100 | 50.0 | 91.2 |
| | 208.0 | 151.6 | 229.4 | 0.736 | 140.6 | 1015 | 8.195 | 0.099 | 52.6 | 91.8 |
| | 208.0 | 158.2 | 234.7 | 0.697 | 132.9 | 1037 | 8.467 | 0.104 | 58.7 | 91.7 |
| | 208.0 | 164.5 | 240.5 | 0.651 | 124.8 | 1054 | 7.257 | 0.091 | 54.4 | 92.2 |
| | 208.0 | 170.4 | 246.3 | 0.609 | 116.2 | 1073 | 7.220 | 0.092 | 59.2 | 91.7 |
| | 208.0 | 176.9 | 253.8 | 0.559 | 107.1 | 1089 | 6.119 | 0.079 | 55.3 | 92.1 |
| | 208.0 | 180.9 | 258.2 | 0.535 | 101.6 | 1104 | 5.344 | 0.070 | 51.6 | 91.3 |
| | 208.0 | 186.8 | 265.5 | 0.489 | 91.5 | 1117 | 5.048 | 0.067 | 54.7 | 90.0 |
| | 208.0 | 192.3 | 272.2 | 0.459 | 84.4 | 1129 | 4.010 | 0.054 | 47.6 | 88.5 |
| | 208.0 | 197.8 | 279.4 | 0.425 | 79.0 | 1140 | 3.050 | 0.041 | 39.1 | 89.3 |
| | 208.0 | 203.6 | 288.9 | 0.406 | 73.9 | 1150 | 2.864 | 0.039 | 39.6 | 87.4 |
| | 208.0 | 211.2 | 299.6 | 0.383 | 68.0 | 1158 | 2.123 | 0.029 | 32.1 | 85.4 |
| | 208.0 | 216.1 | 307.1 | 0.357 | 61.9 | 1166 | 1.535 | 0.021 | 25.7 | 83.3 |
| | 208.0 | 219.2 | 311.8 | 0.343 | 58.5 | 1172 | 0.856 | 0.012 | 15.2 | 81.9 |
| | 208.0 | 221.6 | 315.3 | 0.324 | 53.7 | 1178 | 0.224 | 0.003 | 4.4 | 79.7 |
| | 208.0 | 222.4 | 316.4 | 0.318 | 51.5 | 1180 | 0.042 | 0.001 | 0.9 | 77.9 |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

Curve Descriptions:

Motor(1) Test 16 Start 208V 60 Hz 6P
M2 M2 5ufd Run

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 6 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 5 |
| Test Number: | 2 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.7 Deg C 54 % RH 963 hPa |
| Volts: | 208 | Tested: | 6/29/2016 5:07:22 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | REV | Gear Ratio: | 1:1 |
| Special Cond: | M2 - MEDIUM-HIGH SPEED | Bearing Friction: | -0.55 Oz-Ft |
| Speed Conn: | M2 | Windage Torque: | -1.00 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 208.0 | 221.9 | 316.9 | 0.254 | 50.5 | 1179 | 0.000 | 0.000 | 0.0 | 95.7 |
| | 208.0 | 221.3 | 314.5 | 0.270 | 54.1 | 1175 | 0.434 | 0.006 | 8.4 | 96.1 |
| | 208.0 | 217.4 | 310.2 | 0.295 | 59.2 | 1169 | 1.091 | 0.015 | 19.1 | 96.3 |
| | 208.0 | 213.5 | 304.2 | 0.321 | 64.6 | 1162 | 1.762 | 0.024 | 28.1 | 96.8 |
| | 208.0 | 207.9 | 296.4 | 0.343 | 69.4 | 1154 | 2.433 | 0.033 | 35.9 | 97.2 |
| | 208.0 | 200.9 | 286.8 | 0.365 | 74.0 | 1145 | 3.349 | 0.046 | 46.0 | 97.6 |
| | 208.0 | 195.3 | 276.4 | 0.400 | 80.9 | 1134 | 3.573 | 0.048 | 44.5 | 97.3 |
| | 208.0 | 189.0 | 268.1 | 0.439 | 88.5 | 1123 | 4.269 | 0.057 | 48.1 | 97.0 |
| | 208.0 | 184.0 | 262.5 | 0.472 | 94.9 | 1111 | 5.393 | 0.071 | 56.1 | 96.7 |
| 5.711 OZ-FT | **208.0** | **181.6** | **259.8** | **0.489** | **98.2** | **1105** | **5.711** | **0.075** | **57.1** | **96.6** |
| | 208.0 | 178.4 | 256.8 | 0.509 | 102.1 | 1097 | 6.206 | 0.081 | 59.2 | 96.4 |
| | 208.0 | 173.2 | 250.0 | 0.561 | 112.0 | 1081 | 6.435 | 0.083 | 55.2 | 96.0 |
| 7.552 OZ-FT | **208.0** | **167.5** | **244.0** | **0.600** | **119.4** | **1066** | **7.552** | **0.096** | **59.8** | **95.6** |
| | 208.0 | 167.4 | 243.8 | 0.602 | 119.7 | 1065 | 7.609 | 0.096 | 60.2 | 95.6 |
| | 208.0 | 161.1 | 238.0 | 0.647 | 127.9 | 1046 | 7.785 | 0.097 | 56.5 | 95.0 |
| 8.354 OZ-FT | **208.0** | **155.8** | **233.2** | **0.685** | **134.9** | **1032** | **8.354** | **0.103** | **56.7** | **94.7** |
| | 208.0 | 154.3 | 232.0 | 0.694 | 136.5 | 1027 | 8.770 | 0.107 | 58.6 | 94.6 |
| | 208.0 | 148.8 | 226.7 | 0.737 | 144.0 | 1006 | 8.804 | 0.105 | 54.6 | 93.9 |
| | 208.0 | 141.0 | 221.0 | 0.787 | 152.5 | 982 | 9.725 | 0.114 | 55.6 | 93.1 |
| | 208.0 | 134.4 | 215.2 | 0.842 | 161.6 | 956 | 9.517 | 0.108 | 50.0 | 92.3 |
| | 208.0 | 128.1 | 211.1 | 0.884 | 168.1 | 930 | 9.626 | 0.107 | 47.3 | 91.4 |
| | 208.0 | 121.8 | 207.0 | 0.926 | 174.6 | 901 | 9.714 | 0.104 | 44.5 | 90.6 |
| BDT OZ-FT | **208.0** | **118.6** | **205.2** | **0.948** | **177.9** | **886** | **10.247** | **0.108** | **45.3** | **90.2** |
| | 208.0 | 115.3 | 203.4 | 0.970 | 180.9 | 871 | 9.791 | 0.102 | 41.9 | 89.7 |
| | 208.0 | 108.8 | 200.4 | 1.011 | 186.9 | 840 | 9.837 | 0.098 | 39.2 | 88.9 |
| | 208.0 | 103.0 | 197.8 | 1.049 | 191.9 | 803 | 10.105 | 0.097 | 37.6 | 87.9 |
| | 208.0 | 97.3 | 195.7 | 1.088 | 196.7 | 766 | 9.498 | 0.087 | 32.8 | 86.9 |
| | 208.0 | 92.0 | 194.1 | 1.123 | 201.1 | 728 | 9.082 | 0.079 | 29.2 | 86.1 |
| | 208.0 | 86.9 | 193.0 | 1.154 | 204.5 | 687 | 8.943 | 0.073 | 26.7 | 85.2 |
| | 208.0 | 82.0 | 192.2 | 1.184 | 207.5 | 643 | 8.384 | 0.064 | 23.1 | 84.3 |
| | 208.0 | 76.8 | 191.6 | 1.211 | 210.2 | 596 | 8.136 | 0.058 | 20.5 | 83.4 |
| | 208.0 | 72.2 | 191.4 | 1.235 | 212.1 | 547 | 7.418 | 0.048 | 17.0 | 82.5 |
| | 208.0 | 67.7 | 191.1 | 1.255 | 213.2 | 496 | 6.891 | 0.041 | 14.2 | 81.7 |
| | 208.0 | 63.5 | 190.6 | 1.269 | 213.2 | 446 | 6.219 | 0.033 | 11.6 | 80.8 |
| | 208.0 | 60.2 | 191.4 | 1.280 | 213.7 | 387 | 6.273 | 0.029 | 10.1 | 80.2 |
| | 208.0 | 58.7 | 193.5 | 1.295 | 215.8 | 329 | 6.153 | 0.024 | 8.3 | 80.1 |
| | 208.0 | 57.6 | 196.1 | 1.312 | 218.5 | 267 | 5.835 | 0.019 | 6.3 | 80.1 |
| | 208.0 | 56.5 | 198.7 | 1.328 | 220.8 | 204 | 5.443 | 0.013 | 4.5 | 79.9 |
| | 208.0 | 55.6 | 201.3 | 1.339 | 222.4 | 135 | 4.853 | 0.008 | 2.6 | 79.8 |
| | 208.0 | 54.9 | 203.9 | 1.346 | 223.0 | 64 | 4.438 | 0.003 | 1.1 | 79.7 |

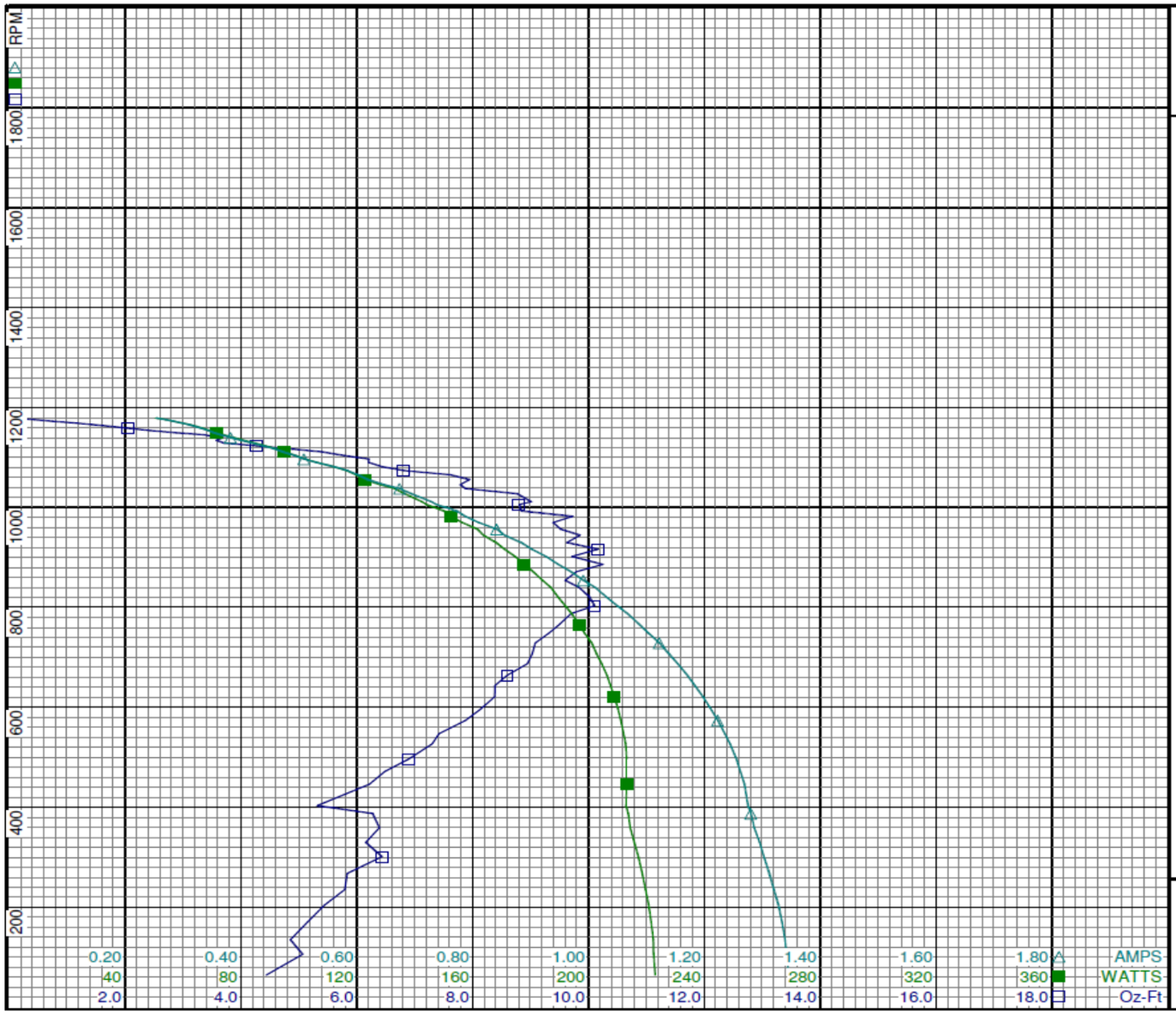





©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

Curve Descriptions:

Motor(1) Test 2 Run 208V 60 Hz 6P
M2 - MEDIUM-HIGH SPEED M2 REV 5ufd Run

- SPEED vs TORQUE
- SPEED vs WATTS
- SPEED vs ILine

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1



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

©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Start | Run Cap: | 5 |
| Test Number: | 17 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.2 Deg C 50 % RH 963 hPa |
| Volts: | 208 | Tested: | 6/29/2016 5:25:15 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | M3 | Bearing Friction: | -0.56 Oz-Ft |
| Speed Conn: | M3 | Windage Torque: | -1.67 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

| Special Points PUT OZ-FT | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | **208.0** | **51.0** | **188.1** | **1.127** | **183.65** | **22** | **1.601** | **0.000** | **0.2** | **78.3** |
| | 208.0 | 51.0 | 188.1 | 1.127 | 183.65 | 22 | 1.601 | 0.000 | 0.2 | 78.3 |
| | 208.0 | 51.3 | 185.7 | 1.121 | 182.57 | 91 | 1.959 | 0.002 | 0.9 | 78.3 |
| | 208.0 | 52.1 | 182.5 | 1.111 | 181.25 | 178 | 3.436 | 0.007 | 3.0 | 78.4 |
| | 208.0 | 53.0 | 180.2 | 1.099 | 179.83 | 244 | 4.100 | 0.012 | 4.9 | 78.6 |
| | 208.0 | 53.7 | 178.3 | 1.088 | 178.23 | 293 | 4.225 | 0.015 | 6.2 | 78.7 |
| | 208.0 | 54.7 | 175.9 | 1.072 | 175.79 | 354 | 4.018 | 0.017 | 7.2 | 78.8 |
| | 208.0 | 56.4 | 174.2 | 1.060 | 174.07 | 412 | 4.017 | 0.020 | 8.4 | 79.0 |
| | 208.0 | 59.8 | 174.2 | 1.051 | 174.28 | 465 | 4.235 | 0.023 | 10.0 | 79.7 |
| | 208.0 | 64.8 | 174.7 | 1.034 | 174.21 | 531 | 4.981 | 0.031 | 13.5 | 81.0 |
| | 208.0 | 68.3 | 174.9 | 1.018 | 173.16 | 573 | 5.362 | 0.037 | 15.7 | 81.8 |
| | 208.0 | 72.4 | 175.3 | 0.998 | 171.55 | 617 | 5.747 | 0.042 | 18.3 | 82.6 |
| | 208.0 | 76.9 | 175.7 | 0.974 | 169.34 | 664 | 6.131 | 0.048 | 21.3 | 83.6 |
| | 208.0 | 81.7 | 176.5 | 0.946 | 166.31 | 707 | 6.442 | 0.054 | 24.3 | 84.5 |
| | 208.0 | 86.2 | 177.6 | 0.920 | 163.48 | 745 | 6.727 | 0.060 | 27.2 | 85.4 |
| | 208.0 | 92.5 | 179.5 | 0.883 | 159.34 | 792 | 7.522 | 0.071 | 33.2 | 86.7 |
| | 208.0 | 97.2 | 181.2 | 0.858 | 155.80 | 819 | 6.938 | 0.068 | 32.4 | 87.3 |
| | 208.0 | 102.4 | 183.9 | 0.822 | 151.04 | 853 | 7.329 | 0.074 | 36.8 | 88.3 |
| | 208.0 | 108.3 | 186.8 | 0.789 | 146.33 | 885 | 7.235 | 0.076 | 38.8 | 89.2 |
| | 208.0 | 113.8 | 190.2 | 0.753 | 141.17 | 914 | 7.197 | 0.078 | 41.4 | 90.1 |
| | 208.0 | 120.1 | 194.3 | 0.714 | 135.11 | 942 | 7.291 | 0.082 | 45.2 | 91.0 |
| | 208.0 | 126.3 | 198.5 | 0.676 | 129.15 | 968 | 6.947 | 0.080 | 46.3 | 91.9 |
| | 208.0 | 131.7 | 203.4 | 0.636 | 122.59 | 992 | 7.260 | 0.086 | 52.2 | 92.7 |
| | 208.0 | 137.8 | 207.1 | 0.607 | 118.06 | 1014 | 6.320 | 0.076 | 48.2 | 93.5 |
| | 208.0 | 143.6 | 213.1 | 0.563 | 110.17 | 1034 | 5.992 | 0.074 | 49.9 | 94.1 |
| | 208.0 | 150.7 | 220.7 | 0.508 | 100.39 | 1059 | 6.035 | 0.076 | 56.5 | 95.0 |
| | 208.0 | 154.4 | 223.3 | 0.492 | 97.57 | 1072 | 5.132 | 0.065 | 50.1 | 95.4 |
| | 208.0 | 160.6 | 230.4 | 0.444 | 88.49 | 1089 | 5.036 | 0.065 | 55.1 | 95.8 |
| | 208.0 | 165.3 | 235.0 | 0.418 | 83.65 | 1103 | 3.882 | 0.051 | 45.4 | 96.2 |
| | 208.0 | 169.5 | 239.8 | 0.388 | 77.91 | 1116 | 3.549 | 0.047 | 45.2 | 96.6 |
| | 208.0 | 174.6 | 246.8 | 0.351 | 70.65 | 1129 | 3.182 | 0.043 | 45.1 | 96.9 |
| | 208.0 | 179.8 | 255.1 | 0.321 | 65.11 | 1140 | 2.996 | 0.041 | 46.6 | 97.4 |
| | 208.0 | 186.7 | 263.6 | 0.303 | 61.48 | 1149 | 1.740 | 0.024 | 28.9 | 97.5 |
| | 208.0 | 192.4 | 271.6 | 0.287 | 58.14 | 1158 | 0.861 | 0.012 | 15.2 | 97.2 |
| | 208.0 | 197.7 | 280.2 | 0.264 | 53.22 | 1166 | 1.051 | 0.015 | 20.4 | 96.7 |
| | 208.0 | 201.2 | 285.9 | 0.243 | 48.78 | 1172 | 0.650 | 0.009 | 13.9 | 96.5 |
| | 208.0 | 203.5 | 289.6 | 0.224 | 44.95 | 1178 | 0.116 | 0.002 | 2.7 | 96.3 |
| | 208.0 | 204.2 | 290.4 | 0.218 | 43.62 | 1179 | 0.000 | 0.000 | 0.0 | 96.1 |

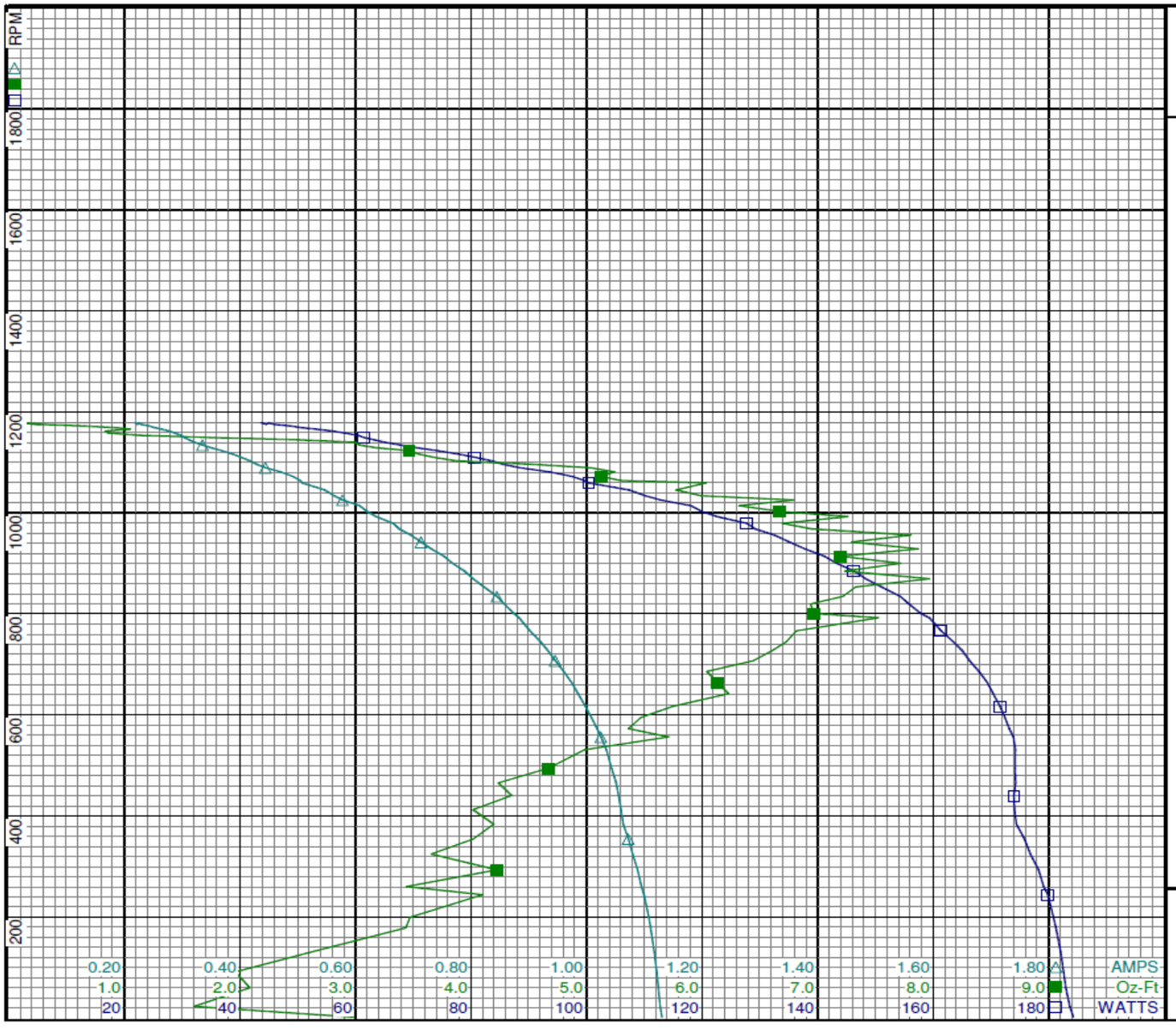





©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Curve Descriptions:

Motor(1) Test 17 Start 208V 60 Hz 6P
M3 M3 5ufd Run

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

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 10 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 5 |
| Test Number: | 13 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.2 Deg C 50 % RH 963 hPa |
| Volts: | 208 | Tested: | 6/29/2016 5:23:35 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | REV | Gear Ratio: | 1:1 |
| Special Cond: | M3 - MEDIUM-LOW SPEED | Bearing Friction: | -0.59 Oz-Ft |
| Speed Conn: | M3 | Windage Torque: | -0.73 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

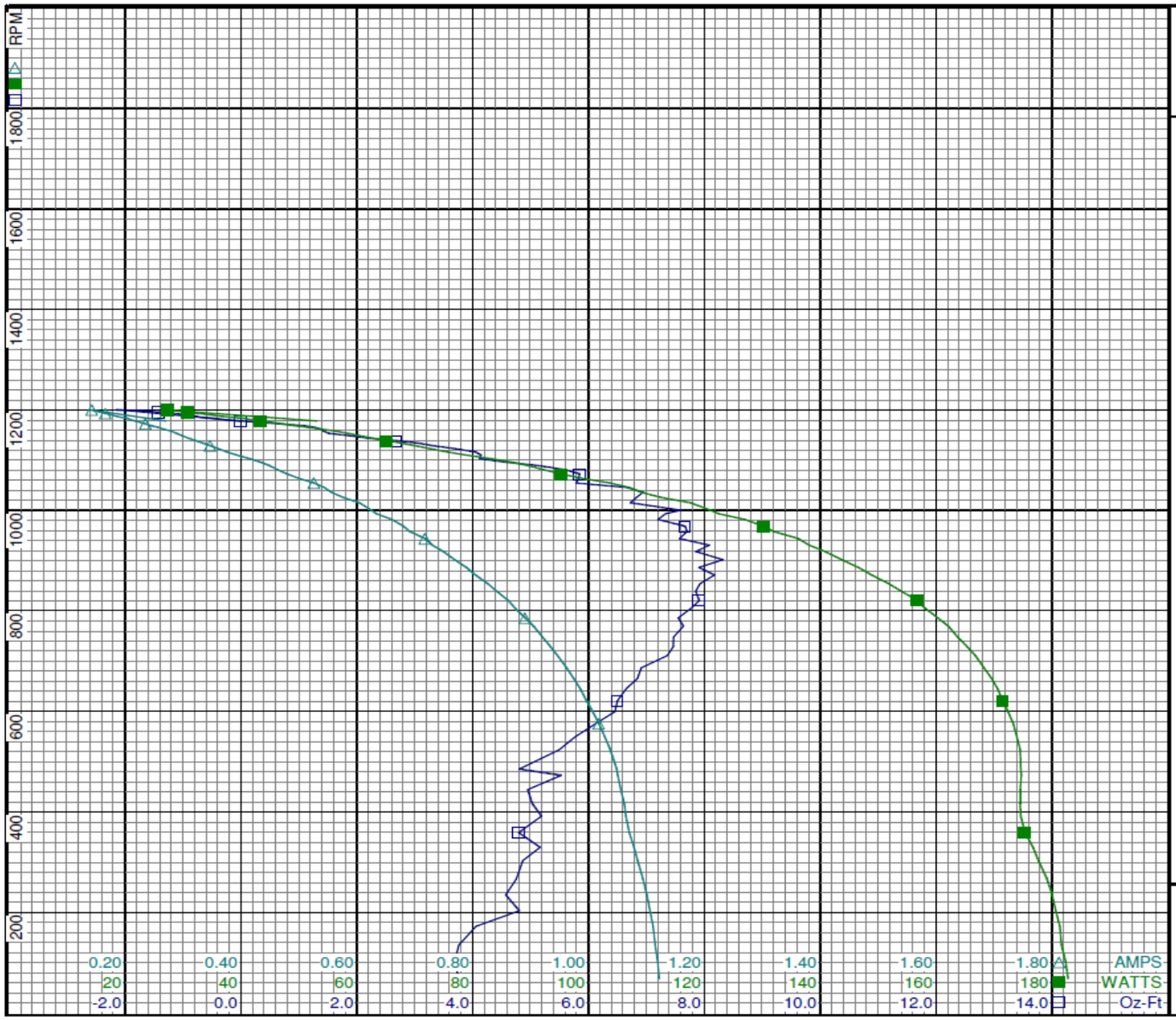
| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 208.0 | 198.0 | 278.2 | 0.270 | 53.07 | 1178 | 0.000 | 0.000 | 0.0 | 94.6 |
| | 208.0 | 210.7 | 300.9 | 0.143 | 27.45 | 1200 | -2.161 | -0.031 | 0.0 | 92.5 |
| | 208.0 | 210.8 | 300.9 | 0.143 | 27.45 | 1200 | -2.164 | -0.031 | 0.0 | 92.5 |
| | 208.0 | 210.8 | 300.9 | 0.143 | 27.45 | 1200 | -2.143 | -0.031 | 0.0 | 92.6 |
| | 208.0 | 210.8 | 300.9 | 0.143 | 27.46 | 1200 | -2.148 | -0.031 | 0.0 | 92.5 |
| | 208.0 | 210.6 | 300.4 | 0.146 | 28.16 | 1199 | -1.788 | -0.026 | 0.0 | 92.8 |
| | 208.0 | 210.0 | 299.6 | 0.153 | 29.67 | 1197 | -1.592 | -0.023 | 0.0 | 93.3 |
| | 208.0 | 209.3 | 298.5 | 0.161 | 31.48 | 1195 | -1.299 | -0.018 | 0.0 | 93.9 |
| | 208.0 | 208.1 | 296.7 | 0.175 | 34.40 | 1190 | -1.011 | -0.014 | 0.0 | 94.7 |
| | 208.0 | 206.5 | 294.3 | 0.193 | 38.23 | 1185 | -0.681 | -0.010 | 0.0 | 95.3 |
| | 208.0 | 204.1 | 290.5 | 0.217 | 43.48 | 1178 | -0.005 | 0.000 | 0.0 | 96.2 |
| | 208.0 | 199.9 | 285.4 | 0.245 | 49.22 | 1169 | 1.081 | 0.015 | 22.8 | 96.6 |
| | 208.0 | 193.5 | 275.4 | 0.280 | 56.48 | 1157 | 1.427 | 0.020 | 26.0 | 97.1 |
| | 208.0 | 182.9 | 259.3 | 0.309 | 62.75 | 1144 | 2.190 | 0.030 | 35.5 | 97.6 |
| | 208.0 | 174.7 | 247.5 | 0.347 | 70.02 | 1129 | 3.305 | 0.044 | 47.3 | 97.0 |
| | 208.0 | 167.8 | 238.9 | 0.393 | 78.80 | 1110 | 4.142 | 0.055 | 51.8 | 96.5 |
| **4.496 OZ-FT** | **208.0** | **162.7** | **232.6** | **0.430** | **86.09** | **1097** | **4.496** | **0.059** | **50.9** | **96.2** |
| | 208.0 | 160.0 | 229.4 | 0.449 | 89.62 | 1089 | 5.139 | 0.067 | 55.5 | 95.9 |
| | 208.0 | 152.2 | 221.8 | 0.501 | 99.10 | 1063 | 5.826 | 0.074 | 55.5 | 95.1 |
| **5.971 OZ-FT** | **208.0** | **148.3** | **217.7** | **0.530** | **104.42** | **1053** | **5.971** | **0.075** | **53.4** | **94.8** |
| **6.596 OZ-FT** | **208.0** | **146.6** | **215.7** | **0.542** | **106.73** | **1046** | **6.596** | **0.082** | **57.4** | **94.6** |
| | 208.0 | 143.5 | 213.7 | 0.556 | 109.11 | 1036 | 6.941 | 0.086 | 58.5 | 94.3 |
| | 208.0 | 133.3 | 204.6 | 0.625 | 121.02 | 1000 | 7.598 | 0.090 | 55.8 | 93.1 |
| | 208.0 | 125.4 | 198.1 | 0.680 | 130.21 | 968 | 7.666 | 0.088 | 50.6 | 92.0 |
| | 208.0 | 116.8 | 192.4 | 0.731 | 138.12 | 931 | 8.088 | 0.090 | 48.4 | 90.9 |
| **BDT OZ-FT** | **208.0** | **110.7** | **188.5** | **0.769** | **143.75** | **902** | **8.322** | **0.089** | **46.4** | **89.9** |
| | 208.0 | 107.9 | 186.8 | 0.789 | 146.57 | 886 | 7.907 | 0.083 | 42.5 | 89.3 |
| | 208.0 | 99.6 | 182.3 | 0.842 | 154.04 | 839 | 7.848 | 0.078 | 37.9 | 88.0 |
| | 208.0 | 91.5 | 179.1 | 0.891 | 160.30 | 786 | 7.548 | 0.071 | 32.9 | 86.5 |
| | 208.0 | 84.1 | 177.0 | 0.935 | 165.37 | 728 | 7.460 | 0.065 | 29.2 | 85.1 |
| | 208.0 | 77.1 | 175.6 | 0.974 | 169.61 | 665 | 6.844 | 0.054 | 23.8 | 83.7 |
| | 208.0 | 70.9 | 175.1 | 1.007 | 172.41 | 599 | 6.458 | 0.046 | 19.9 | 82.3 |
| | 208.0 | 64.2 | 174.6 | 1.038 | 174.54 | 523 | 5.491 | 0.034 | 14.6 | 80.9 |
| | 208.0 | 58.3 | 174.2 | 1.056 | 174.53 | 444 | 4.951 | 0.026 | 11.2 | 79.5 |
| | 208.0 | 54.6 | 175.4 | 1.070 | 175.34 | 358 | 4.794 | 0.020 | 8.7 | 78.8 |
| | 208.0 | 53.3 | 179.2 | 1.094 | 179.15 | 266 | 4.753 | 0.015 | 6.3 | 78.7 |
| | 208.0 | 52.0 | 182.7 | 1.111 | 181.37 | 172 | 4.056 | 0.008 | 3.4 | 78.5 |
| | 208.0 | 51.3 | 186.5 | 1.122 | 182.78 | 67 | 3.765 | 0.003 | 1.2 | 78.3 |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

Curve Descriptions:

Motor(1) Test 13 Run 208V 60 Hz 6P
M3 - MEDIUM-LOW SPEED M3 REV 5ufd Run

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

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 12 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |

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

©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Start | Run Cap: | 5 |
| Test Number: | 21 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.7 Deg C 54 % RH 963 hPa |
| Volts: | 208 | Tested: | 6/29/2016 4:51:11 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | M4 | Bearing Friction: | -0.59 Oz-Ft |
| Speed Conn: | M4 | Windage Torque: | -1.52 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

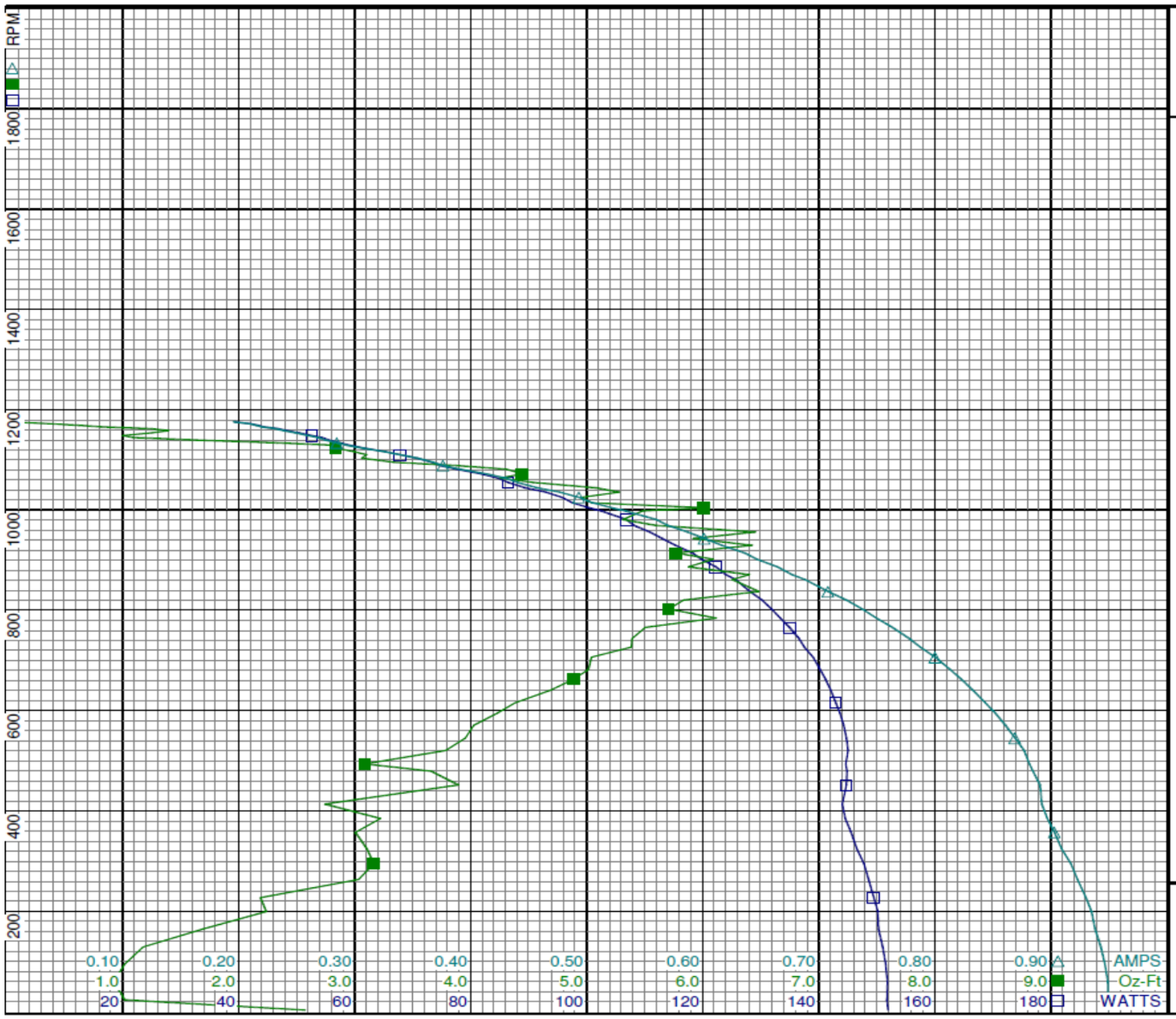
| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 208.0 | 48.1 | 173.6 | 0.949 | 151.71 | 23 | 1.019 | 0.000 | 0.1 | 76.8 |
| **PUT OZ-FT** | **208.0** | **48.1** | **172.4** | **0.949** | **151.82** | **59** | **0.920** | **0.001** | **0.3** | **76.9** |
| | 208.0 | 48.1 | 171.2 | 0.946 | 151.51 | 95 | 1.018 | 0.001 | 0.6 | 77.0 |
| | 208.0 | 48.6 | 168.7 | 0.938 | 150.30 | 164 | 1.692 | 0.003 | 1.6 | 77.0 |
| | 208.0 | 49.2 | 166.7 | 0.930 | 149.50 | 227 | 2.188 | 0.006 | 2.9 | 77.3 |
| | 208.0 | 50.1 | 164.1 | 0.917 | 147.79 | 294 | 3.164 | 0.011 | 5.6 | 77.5 |
| | 208.0 | 50.7 | 161.7 | 0.903 | 145.57 | 357 | 3.007 | 0.013 | 6.5 | 77.5 |
| | 208.0 | 52.2 | 160.2 | 0.892 | 144.05 | 413 | 2.743 | 0.013 | 7.0 | 77.6 |
| | 208.0 | 56.2 | 160.4 | 0.885 | 144.85 | 479 | 3.658 | 0.021 | 10.7 | 78.7 |
| | 208.0 | 59.1 | 160.8 | 0.877 | 145.06 | 520 | 3.784 | 0.023 | 12.1 | 79.5 |
| | 208.0 | 63.1 | 161.1 | 0.861 | 144.27 | 570 | 4.026 | 0.027 | 14.1 | 80.6 |
| | 208.0 | 66.8 | 161.2 | 0.844 | 142.93 | 615 | 4.381 | 0.032 | 16.7 | 81.5 |
| | 208.0 | 71.1 | 161.6 | 0.823 | 141.13 | 663 | 4.889 | 0.039 | 20.4 | 82.5 |
| | 208.0 | 75.3 | 162.3 | 0.800 | 139.01 | 706 | 5.040 | 0.042 | 22.7 | 83.5 |
| | 208.0 | 79.4 | 163.3 | 0.778 | 136.60 | 743 | 5.391 | 0.048 | 26.1 | 84.4 |
| | 208.0 | 84.1 | 164.9 | 0.750 | 133.35 | 784 | 6.114 | 0.057 | 31.9 | 85.5 |
| | 208.0 | 89.1 | 166.5 | 0.724 | 130.24 | 820 | 5.834 | 0.057 | 32.6 | 86.5 |
| | 208.0 | 95.0 | 169.3 | 0.688 | 125.70 | 861 | 6.253 | 0.064 | 38.0 | 87.8 |
| | 208.0 | 99.1 | 171.6 | 0.664 | 122.27 | 886 | 5.876 | 0.062 | 37.8 | 88.5 |
| | 208.0 | 104.4 | 174.5 | 0.636 | 118.23 | 914 | 5.770 | 0.063 | 39.6 | 89.3 |
| | 208.0 | 110.2 | 178.4 | 0.601 | 112.99 | 943 | 5.918 | 0.066 | 43.9 | 90.3 |
| | 208.0 | 116.1 | 182.2 | 0.570 | 108.14 | 969 | 5.598 | 0.065 | 44.5 | 91.2 |
| | 208.0 | 121.9 | 187.1 | 0.533 | 102.49 | 998 | 5.481 | 0.065 | 47.4 | 92.4 |
| | 208.0 | 126.6 | 191.0 | 0.505 | 97.55 | 1014 | 5.042 | 0.061 | 46.5 | 92.8 |
| | 208.0 | 131.5 | 195.0 | 0.477 | 92.93 | 1036 | 5.280 | 0.065 | 52.3 | 93.7 |
| | 208.0 | 137.5 | 200.7 | 0.440 | 86.47 | 1055 | 4.538 | 0.057 | 49.2 | 94.4 |
| | 208.0 | 141.7 | 204.7 | 0.414 | 81.73 | 1072 | 4.444 | 0.057 | 51.8 | 95.0 |
| | 208.0 | 147.0 | 211.2 | 0.376 | 74.67 | 1089 | 3.876 | 0.050 | 50.2 | 95.5 |
| | 208.0 | 151.4 | 215.1 | 0.354 | 70.75 | 1103 | 3.060 | 0.040 | 42.4 | 96.1 |
| | 208.0 | 155.6 | 220.0 | 0.326 | 65.30 | 1116 | 2.995 | 0.040 | 45.5 | 96.4 |
| | 208.0 | 160.2 | 227.3 | 0.293 | 59.16 | 1129 | 2.857 | 0.038 | 48.4 | 96.9 |
| | 208.0 | 165.5 | 233.7 | 0.275 | 55.54 | 1139 | 1.639 | 0.022 | 29.9 | 97.3 |
| | 208.0 | 170.1 | 239.7 | 0.259 | 52.61 | 1148 | 1.002 | 0.014 | 19.4 | 97.6 |
| | 208.0 | 177.9 | 252.2 | 0.239 | 48.28 | 1158 | 1.397 | 0.019 | 29.8 | 97.2 |
| | 208.0 | 183.9 | 261.3 | 0.220 | 44.25 | 1166 | 0.818 | 0.011 | 19.1 | 96.9 |
| | 208.0 | 186.2 | 264.5 | 0.209 | 42.13 | 1172 | 0.386 | 0.005 | 9.5 | 96.8 |
| | 208.0 | 188.2 | 267.5 | 0.195 | 39.26 | 1176 | 0.000 | 0.000 | 0.0 | 96.7 |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

Curve Descriptions:

Motor(1) Test 21 Start 208V 60 Hz 6P
M4 M4 5ufd Run

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 14 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

Dayton®

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 5 |
| Test Number: | 3 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.7 Deg C 54 % RH 963 hPa |
| Volts: | 208 | Tested: | 6/29/2016 4:49:52 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | REV | Gear Ratio: | 1:1 |
| Special Cond: | M4 - LOW SPEED | Bearing Friction: | -0.53 Oz-Ft |
| Speed Conn: | M4 | Windage Torque: | -1.20 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 208.0 | 188.5 | 267.7 | 0.194 | 38.96 | 1175 | 0.000 | 0.000 | 0.0 | 96.6 |
| | 208.0 | 185.2 | 263.8 | 0.212 | 42.76 | 1169 | 0.450 | 0.006 | 10.9 | 96.8 |
| | 208.0 | 181.9 | 257.7 | 0.230 | 46.40 | 1162 | 0.634 | 0.009 | 14.1 | 97.1 |
| | 208.0 | 175.7 | 248.5 | 0.244 | 49.42 | 1154 | 1.415 | 0.019 | 29.3 | 97.4 |
| | 208.0 | 168.8 | 238.9 | 0.260 | 52.65 | 1144 | 2.217 | 0.030 | 42.8 | 97.4 |
| | 208.0 | 163.3 | 231.4 | 0.277 | 56.09 | 1135 | 2.725 | 0.037 | 49.0 | 97.3 |
| | 208.0 | 157.7 | 224.3 | 0.306 | 61.53 | 1122 | 2.897 | 0.039 | 46.9 | 96.7 |
| | 208.0 | 153.6 | 218.0 | 0.337 | 67.49 | 1110 | 3.211 | 0.042 | 46.9 | 96.3 |
| **3.646 OZ-FT** | **208.0** | **151.5** | **215.4** | **0.350** | **69.95** | **1103** | **3.646** | **0.048** | **51.1** | **96.1** |
| | 208.0 | 149.5 | 213.5 | 0.360 | 71.82 | 1097 | 4.105 | 0.054 | 55.7 | 95.8 |
| | 208.0 | 145.1 | 209.0 | 0.388 | 76.97 | 1081 | 4.357 | 0.056 | 54.4 | 95.4 |
| | 208.0 | 139.4 | 202.7 | 0.426 | 84.05 | 1064 | 4.743 | 0.060 | 53.3 | 94.8 |
| **4.909 OZ-FT** | **208.0** | **138.8** | **202.2** | **0.429** | **84.59** | **1062** | **4.909** | **0.062** | **54.7** | **94.7** |
| **5.463 OZ-FT** | **208.0** | **134.9** | **199.4** | **0.447** | **87.72** | **1049** | **5.463** | **0.068** | **58.0** | **94.4** |
| | 208.0 | 134.3 | 199.0 | 0.450 | 88.18 | 1047 | 5.476 | 0.068 | 57.7 | 94.3 |
| | 208.0 | 128.8 | 192.8 | 0.493 | 95.75 | 1026 | 5.411 | 0.066 | 51.5 | 93.4 |
| | 208.0 | 124.1 | 188.9 | 0.519 | 100.09 | 1004 | 5.783 | 0.069 | 51.5 | 92.7 |
| | 208.0 | 116.8 | 183.0 | 0.565 | 107.55 | 976 | 5.715 | 0.066 | 46.1 | 91.6 |
| **BDT OZ-FT** | **208.0** | **115.3** | **182.2** | **0.570** | **108.46** | **970** | **6.953** | **0.080** | **55.2** | **91.5** |
| | 208.0 | 113.1 | 180.3 | 0.584 | 110.57 | 957 | 6.462 | 0.074 | 49.7 | 91.0 |
| | 208.0 | 106.3 | 175.7 | 0.625 | 116.73 | 924 | 6.286 | 0.069 | 44.2 | 89.9 |
| | 208.0 | 101.7 | 173.0 | 0.650 | 120.57 | 901 | 6.797 | 0.073 | 45.1 | 89.1 |
| | 208.0 | 96.5 | 170.1 | 0.680 | 124.72 | 871 | 6.608 | 0.069 | 41.0 | 88.2 |
| | 208.0 | 91.5 | 167.5 | 0.710 | 128.74 | 839 | 6.524 | 0.065 | 37.7 | 87.2 |
| | 208.0 | 86.7 | 165.6 | 0.736 | 132.09 | 806 | 6.532 | 0.063 | 35.4 | 86.3 |
| | 208.0 | 81.5 | 163.7 | 0.766 | 135.71 | 767 | 6.436 | 0.059 | 32.3 | 85.2 |
| | 208.0 | 77.2 | 162.8 | 0.790 | 138.12 | 727 | 6.119 | 0.053 | 28.6 | 84.1 |
| | 208.0 | 72.2 | 161.7 | 0.817 | 140.73 | 677 | 5.349 | 0.043 | 22.9 | 82.8 |
| | 208.0 | 69.0 | 161.3 | 0.834 | 142.36 | 642 | 5.600 | 0.043 | 22.4 | 82.1 |
| | 208.0 | 65.2 | 161.1 | 0.852 | 143.87 | 599 | 5.374 | 0.038 | 19.9 | 81.2 |
| | 208.0 | 61.1 | 160.9 | 0.869 | 144.97 | 548 | 4.923 | 0.032 | 16.5 | 80.2 |
| | 208.0 | 55.4 | 160.7 | 0.882 | 145.28 | 497 | 4.494 | 0.027 | 13.7 | 79.2 |
| | 208.0 | 53.7 | 160.3 | 0.893 | 145.05 | 446 | 4.041 | 0.021 | 11.0 | 78.1 |
| | 208.0 | 51.1 | 160.6 | 0.897 | 144.66 | 386 | 4.113 | 0.019 | 9.7 | 77.5 |
| | 208.0 | 50.3 | 162.6 | 0.908 | 146.46 | 327 | 4.446 | 0.017 | 8.8 | 77.5 |
| | 208.0 | 49.8 | 164.9 | 0.923 | 148.59 | 267 | 4.346 | 0.014 | 6.9 | 77.4 |
| | 208.0 | 49.1 | 167.4 | 0.934 | 150.19 | 201 | 3.681 | 0.009 | 4.4 | 77.3 |
| | 208.0 | 48.5 | 169.9 | 0.943 | 151.22 | 133 | 3.326 | 0.005 | 2.6 | 77.1 |
| | 208.0 | 48.2 | 172.1 | 0.948 | 151.82 | 68 | 2.912 | 0.002 | 1.2 | 77.0 |

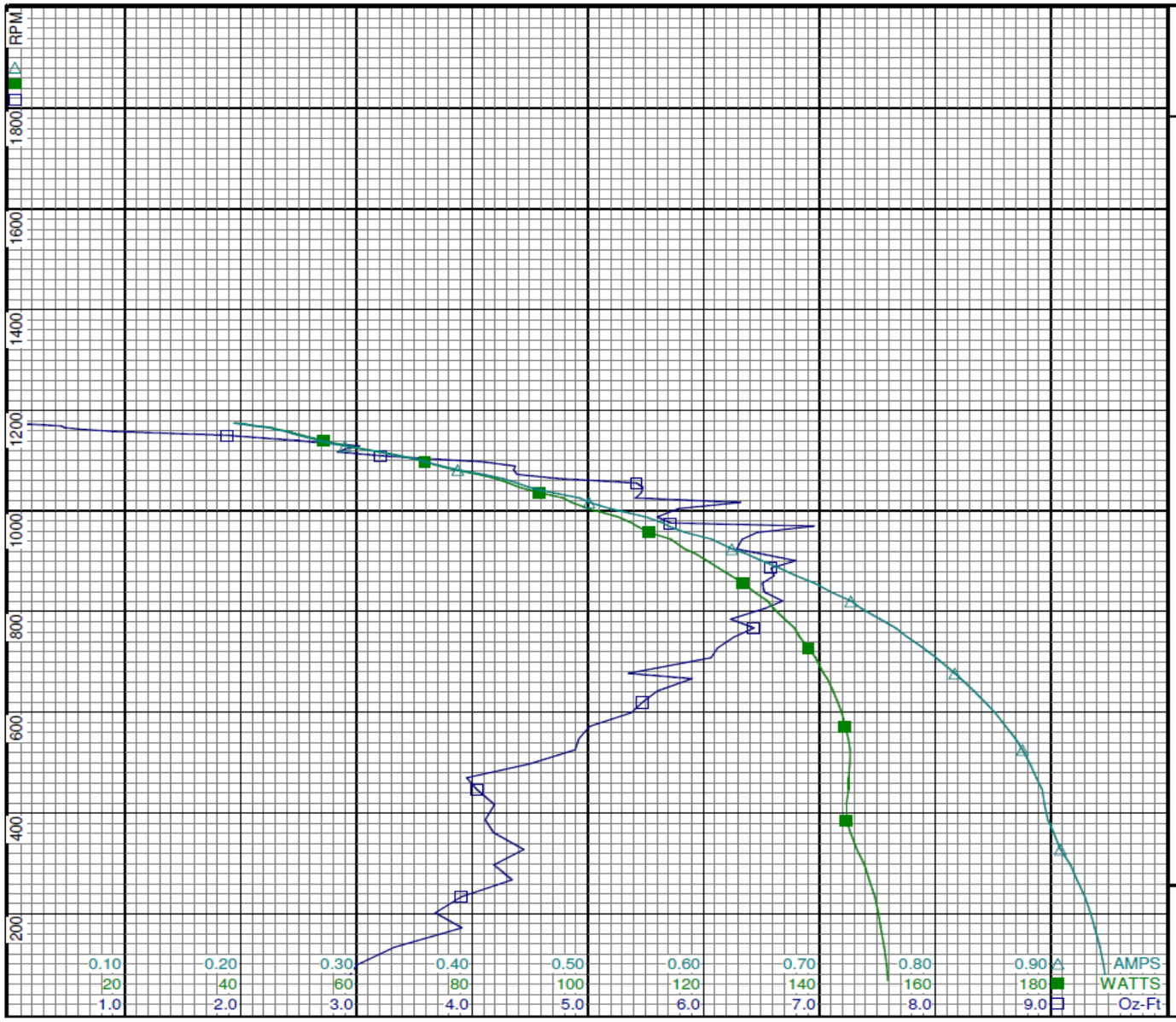





©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

Curve Descriptions:

Motor(1) Test 3 Run 208V 60 Hz 6P
M4 - LOW SPEED M4 REV 5ufd Run
- SPEED vs TORQUE
- SPEED vs WATTS
- SPEED vs ILine

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 16 of 32 | REV. |
|---|---|---|
| | 3LU72BG | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Start | Run Cap: | 5 |
| Test Number: | 18 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.3 Deg C 51 % RH 963 hPa |
| Volts: | 230 | Tested: | 6/29/2016 4:08:07 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | M1 | Bearing Friction: | -0.59 Oz-Ft |
| Speed Conn: | M1 | Windage Torque: | -1.56 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

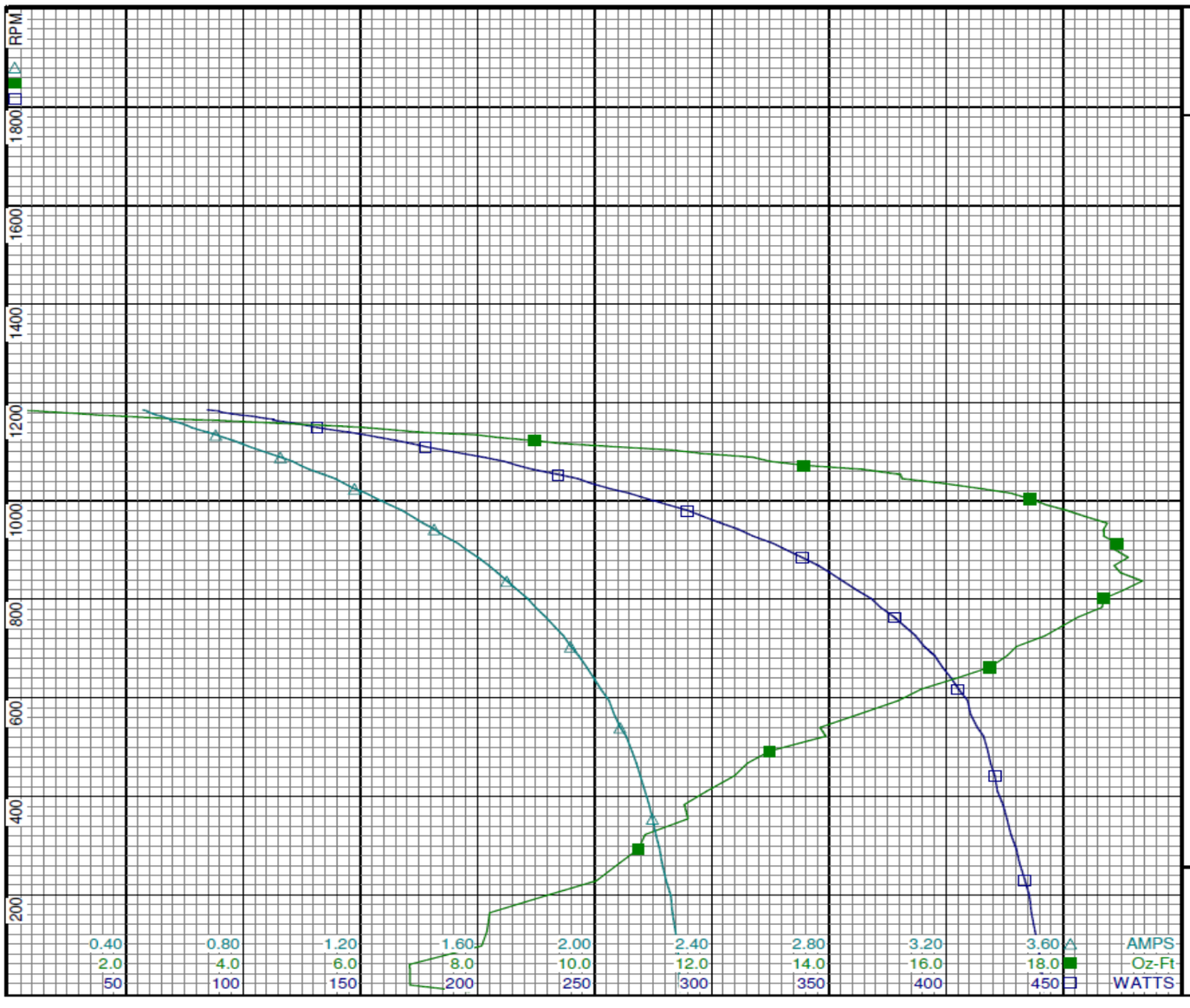
| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 230.0 | 69.2 | 278.4 | 2.289 | 441.6 | 16 | 6.849 | 0.001 | 0.2 | 83.9 |
| PUT OZ-FT | **230.0** | **69.9** | **276.1** | **2.288** | **440.4** | **58** | **6.841** | **0.005** | **0.8** | **83.7** |
| | 230.0 | 70.7 | 274.3 | 2.283 | 439.3 | 96 | 8.070 | 0.009 | 1.6 | 83.7 |
| | 230.0 | 72.6 | 271.7 | 2.266 | 436.4 | 163 | 8.208 | 0.016 | 2.7 | 83.7 |
| | 230.0 | 74.8 | 268.8 | 2.244 | 433.7 | 228 | 10.032 | 0.027 | 4.7 | 84.0 |
| | 230.0 | 77.6 | 266.0 | 2.222 | 429.9 | 293 | 10.748 | 0.037 | 6.5 | 84.1 |
| | 230.0 | 80.5 | 263.6 | 2.198 | 425.9 | 354 | 11.594 | 0.049 | 8.6 | 84.3 |
| | 230.0 | 84.4 | 261.5 | 2.171 | 421.9 | 410 | 11.915 | 0.058 | 10.3 | 84.5 |
| | 230.0 | 90.0 | 261.1 | 2.142 | 419.0 | 467 | 12.605 | 0.070 | 12.5 | 85.0 |
| | 230.0 | 96.3 | 261.7 | 2.107 | 416.0 | 522 | 13.946 | 0.087 | 15.5 | 85.8 |
| | 230.0 | 102.5 | 262.4 | 2.066 | 410.4 | 567 | 14.517 | 0.098 | 17.8 | 86.4 |
| | 230.0 | 109.5 | 263.2 | 2.021 | 405.3 | 618 | 15.576 | 0.115 | 21.1 | 87.2 |
| | 230.0 | 116.4 | 264.7 | 1.973 | 398.4 | 662 | 16.749 | 0.132 | 24.7 | 87.8 |
| | 230.0 | 123.4 | 266.4 | 1.918 | 390.6 | 704 | 17.202 | 0.144 | 27.5 | 88.5 |
| | 230.0 | 131.2 | 268.8 | 1.862 | 382.3 | 745 | 17.975 | 0.160 | 31.1 | 89.3 |
| | 230.0 | 139.2 | 271.9 | 1.798 | 372.0 | 784 | 18.660 | 0.174 | 34.9 | 89.9 |
| | 230.0 | 146.8 | 275.2 | 1.739 | 362.2 | 818 | 19.009 | 0.185 | 38.1 | 90.6 |
| | 230.0 | 155.8 | 279.8 | 1.667 | 350.4 | 854 | 18.973 | 0.193 | 41.1 | 91.4 |
| | 230.0 | 163.7 | 284.3 | 1.602 | 338.6 | 885 | 19.107 | 0.201 | 44.4 | 91.9 |
| | 230.0 | 172.5 | 289.6 | 1.533 | 326.1 | 914 | 18.918 | 0.206 | 47.1 | 92.5 |
| | 230.0 | 181.8 | 296.1 | 1.452 | 311.2 | 943 | 18.690 | 0.210 | 50.3 | 93.2 |
| | 230.0 | 191.0 | 302.7 | 1.375 | 296.1 | 969 | 18.365 | 0.212 | 53.4 | 93.6 |
| | 230.0 | 199.6 | 309.5 | 1.301 | 281.5 | 992 | 17.717 | 0.209 | 55.4 | 94.1 |
| | 230.0 | 208.3 | 317.1 | 1.219 | 264.7 | 1016 | 17.107 | 0.207 | 58.3 | 94.4 |
| | 230.0 | 217.2 | 324.8 | 1.144 | 248.6 | 1035 | 15.967 | 0.197 | 59.1 | 94.5 |
| | 230.0 | 224.9 | 331.9 | 1.074 | 234.4 | 1054 | 15.220 | 0.191 | 60.8 | 94.9 |
| | 230.0 | 233.5 | 340.6 | 0.994 | 216.9 | 1072 | 13.574 | 0.173 | 59.6 | 94.9 |
| | 230.0 | 241.0 | 347.8 | 0.928 | 202.4 | 1089 | 12.694 | 0.165 | 60.7 | 94.9 |
| | 230.0 | 247.2 | 356.4 | 0.854 | 185.4 | 1103 | 11.325 | 0.149 | 59.9 | 94.3 |
| | 230.0 | 254.2 | 363.7 | 0.793 | 171.6 | 1117 | 9.420 | 0.125 | 54.4 | 94.1 |
| | 230.0 | 259.7 | 370.6 | 0.734 | 158.2 | 1129 | 8.362 | 0.112 | 53.0 | 93.7 |
| | 230.0 | 265.4 | 379.4 | 0.680 | 145.5 | 1139 | 7.049 | 0.096 | 49.0 | 93.0 |
| | 230.0 | 271.1 | 389.8 | 0.623 | 131.5 | 1149 | 6.055 | 0.083 | 47.0 | 91.8 |
| | 230.0 | 275.7 | 398.3 | 0.586 | 121.5 | 1158 | 4.570 | 0.063 | 38.7 | 90.2 |
| | 230.0 | 279.8 | 404.1 | 0.553 | 113.0 | 1166 | 3.009 | 0.042 | 27.6 | 88.9 |
| | 230.0 | 282.6 | 408.4 | 0.522 | 104.1 | 1172 | 1.966 | 0.027 | 19.7 | 86.6 |
| | 230.0 | 284.6 | 411.7 | 0.491 | 94.8 | 1177 | 1.207 | 0.017 | 13.3 | 83.8 |
| | 230.0 | 285.4 | 414.8 | 0.471 | 89.3 | 1183 | 0.431 | 0.006 | 5.1 | 82.4 |
| | 230.0 | 287.0 | 416.2 | 0.457 | 84.6 | 1185 | 0.000 | 0.000 | 0.0 | 80.5 |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

**Curve Descriptions:**

Motor(1) Test 18 Start 230V 60 Hz 6P
M1 M1 5ufd Run

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

**Motor Ratings:**

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 18 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 5 |
| Test Number: | 4 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.3 Deg C 51 % RH 963 hPa |
| Volts: | 230 | Tested: | 6/29/2016 4:06:54 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | REV | Gear Ratio: | 1:1 |
| Special Cond: | M1 - HIGH SPEED | Bearing Friction: | -0.60 Oz-Ft |
| Speed Conn: | M1 | Windage Torque: | -1.15 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 230.0 | 285.9 | 415.5 | 0.459 | 84.8 | 1182 | 0.00 | 0.000 | 0.0 | 80.3 |
| | 230.0 | 284.1 | 412.3 | 0.485 | 93.0 | 1178 | 0.90 | 0.013 | 10.1 | 83.3 |
| | 230.0 | 282.0 | 408.5 | 0.509 | 100.2 | 1172 | 1.98 | 0.028 | 20.6 | 85.5 |
| | 230.0 | 278.8 | 403.5 | 0.544 | 110.5 | 1165 | 3.50 | 0.049 | 32.8 | 88.4 |
| | 230.0 | 275.5 | 398.6 | 0.575 | 118.8 | 1159 | 4.63 | 0.064 | 40.1 | 89.9 |
| | 230.0 | 270.9 | 390.8 | 0.615 | 128.8 | 1150 | 5.69 | 0.078 | 45.1 | 91.1 |
| | 230.0 | 263.5 | 377.2 | 0.689 | 147.8 | 1137 | 7.15 | 0.097 | 48.9 | 93.3 |
| | 230.0 | 259.8 | 371.6 | 0.721 | 155.4 | 1129 | 8.65 | 0.116 | 55.8 | 93.7 |
| | 230.0 | 253.3 | 363.3 | 0.782 | 169.1 | 1116 | 10.06 | 0.134 | 59.0 | 94.0 |
| | 230.0 | 247.3 | 356.4 | 0.849 | 184.3 | 1103 | 11.23 | 0.147 | 59.7 | 94.3 |
| 12.012 OZ-FT | **230.0** | **243.6** | **352.0** | **0.889** | **193.6** | **1096** | **12.01** | **0.157** | **60.4** | **94.7** |
| | 230.0 | 240.3 | 347.9 | 0.921 | 200.9 | 1089 | 12.59 | 0.163 | 60.6 | 94.9 |
| | 230.0 | 233.1 | 340.9 | 0.979 | 214.3 | 1074 | 14.18 | 0.181 | 63.1 | 95.2 |
| | 230.0 | 224.3 | 332.2 | 1.071 | 233.8 | 1054 | 15.52 | 0.195 | 62.1 | 94.9 |
| 15.847 OZ-FT | **230.0** | **221.5** | **328.8** | **1.100** | **240.1** | **1048** | **15.85** | **0.198** | **61.4** | **94.9** |
| | 230.0 | 216.0 | 324.2 | 1.141 | 248.9 | 1036 | 16.64 | 0.205 | 61.5 | 94.8 |
| 17.393 OZ-FT | **230.0** | **209.1** | **318.0** | **1.209** | **263.3** | **1019** | **17.39** | **0.211** | **59.8** | **94.6** |
| | 230.0 | 207.5 | 316.8 | 1.224 | 266.3 | 1015 | 17.61 | 0.213 | 59.6 | 94.6 |
| | 230.0 | 199.0 | 309.0 | 1.300 | 281.8 | 992 | 18.28 | 0.216 | 57.2 | 94.2 |
| | 230.0 | 190.1 | 302.3 | 1.374 | 296.4 | 970 | 19.33 | 0.223 | 56.2 | 93.8 |
| | 230.0 | 181.0 | 295.1 | 1.460 | 313.4 | 943 | 19.38 | 0.218 | 51.8 | 93.3 |
| | 230.0 | 171.7 | 289.0 | 1.539 | 328.1 | 914 | 19.73 | 0.215 | 48.8 | 92.7 |
| | 230.0 | 163.4 | 284.0 | 1.606 | 340.0 | 887 | 19.95 | 0.211 | 46.2 | 92.0 |
| | 230.0 | 154.2 | 278.7 | 1.685 | 354.2 | 853 | 19.90 | 0.202 | 42.6 | 91.4 |
| BDT OZ-FT | **230.0** | **146.2** | **274.7** | **1.742** | **363.2** | **820** | **20.03** | **0.195** | **40.1** | **90.6** |
| | 230.0 | 146.2 | 274.7 | 1.742 | 363.2 | 820 | 20.03 | 0.195 | 40.1 | 90.6 |
| | 230.0 | 138.5 | 271.4 | 1.809 | 374.5 | 786 | 19.44 | 0.182 | 36.2 | 90.0 |
| | 230.0 | 130.3 | 268.3 | 1.871 | 384.0 | 746 | 18.94 | 0.168 | 32.7 | 89.2 |
| | 230.0 | 122.8 | 266.1 | 1.929 | 392.9 | 705 | 18.37 | 0.154 | 29.3 | 88.5 |
| | 230.0 | 116.3 | 264.3 | 1.980 | 400.2 | 666 | 17.58 | 0.139 | 26.0 | 87.9 |
| | 230.0 | 108.9 | 263.0 | 2.030 | 406.9 | 618 | 16.84 | 0.124 | 22.7 | 87.1 |
| | 230.0 | 102.3 | 262.2 | 2.074 | 412.5 | 570 | 15.79 | 0.107 | 19.4 | 86.5 |
| | 230.0 | 95.5 | 261.5 | 2.116 | 416.6 | 520 | 14.76 | 0.091 | 16.4 | 85.6 |
| | 230.0 | 89.8 | 261.3 | 2.147 | 420.1 | 470 | 14.01 | 0.078 | 13.9 | 85.1 |
| | 230.0 | 84.5 | 261.5 | 2.174 | 423.0 | 415 | 13.00 | 0.064 | 11.3 | 84.6 |
| | 230.0 | 80.4 | 263.1 | 2.197 | 426.2 | 359 | 12.93 | 0.055 | 9.7 | 84.4 |
| | 230.0 | 77.5 | 266.1 | 2.223 | 430.6 | 295 | 12.27 | 0.043 | 7.5 | 84.2 |
| | 230.0 | 75.0 | 268.6 | 2.244 | 433.8 | 232 | 11.18 | 0.031 | 5.3 | 84.1 |
| | 230.0 | 72.6 | 271.2 | 2.259 | 435.6 | 170 | 10.20 | 0.021 | 3.5 | 83.8 |
| | 230.0 | 70.9 | 274.3 | 2.274 | 438.7 | 99 | 9.46 | 0.011 | 1.9 | 83.9 |

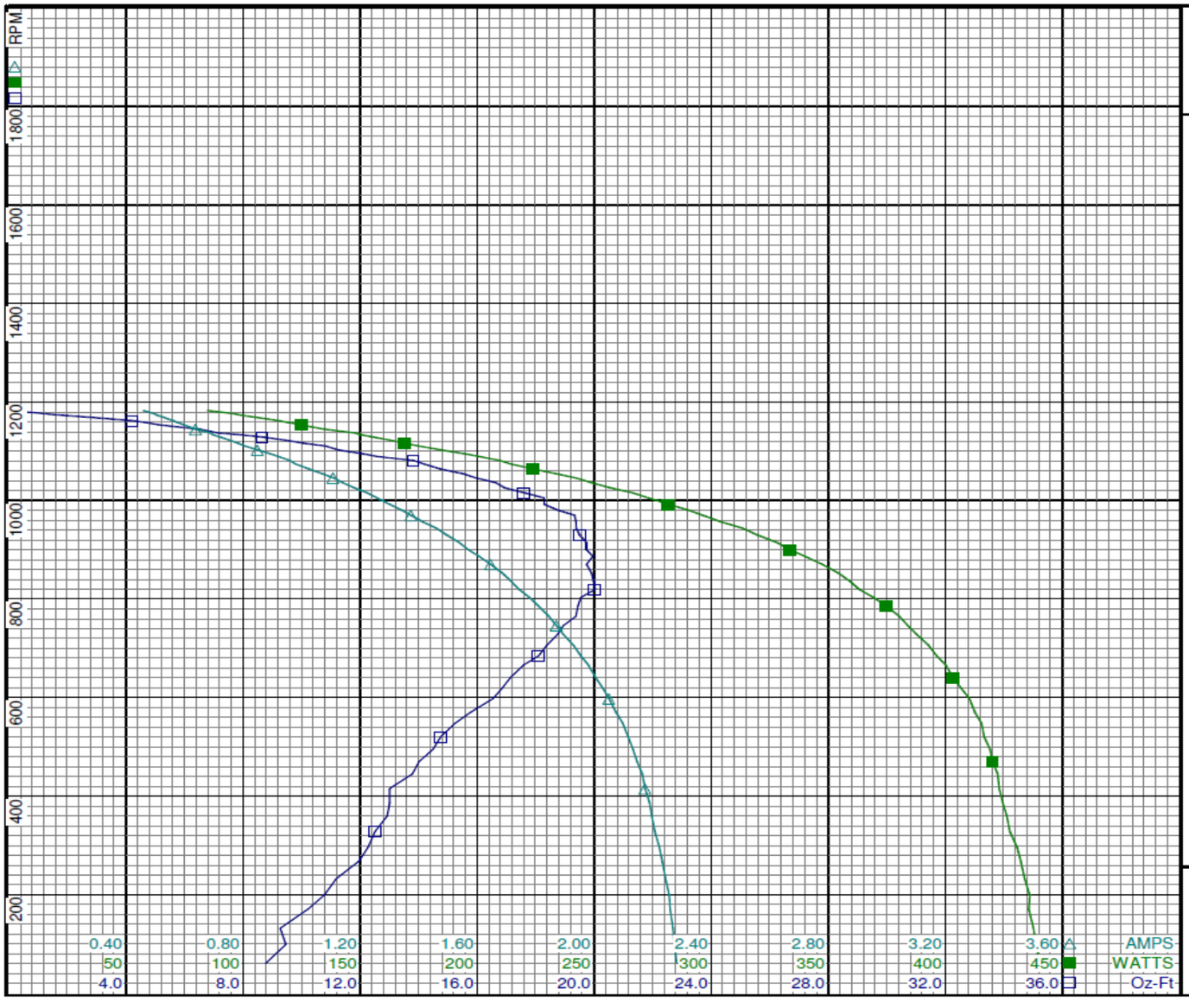




©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

Curve Descriptions:

Motor(1) Test 4 Run 230V 60 Hz 6P
M1 - HIGH SPEED M1 REV 5ufd Run

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

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 20 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |

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

©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Start | Run Cap: | 5 |
| Test Number: | 19 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.7 Deg C 54 % RH 963 hPa |
| Volts: | 230 | Tested: | 6/29/2016 4:25:28 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | M2 | Bearing Friction: | -0.49 Oz-Ft |
| Speed Conn: | M2 | Windage Torque: | -1.47 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 230.0 | 58.8 | 225.8 | 1.523 | 280.9 | 22 | 4.148 | 0.001 | 0.3 | 80.2 |
| PUT OZ-FT | **230.0** | **59.1** | **224.1** | **1.518** | **280.1** | **58** | **4.047** | **0.003** | **0.7** | **80.2** |
| | 230.0 | 59.6 | 222.7 | 1.515 | 279.3 | 94 | 4.386 | 0.005 | 1.3 | 80.1 |
| | 230.0 | 60.8 | 219.8 | 1.508 | 278.4 | 165 | 5.906 | 0.012 | 3.1 | 80.3 |
| | 230.0 | 62.2 | 217.2 | 1.491 | 275.4 | 230 | 5.713 | 0.016 | 4.2 | 80.3 |
| | 230.0 | 63.7 | 214.8 | 1.474 | 273.3 | 293 | 6.563 | 0.023 | 6.3 | 80.6 |
| | 230.0 | 65.6 | 212.0 | 1.455 | 270.4 | 352 | 6.775 | 0.028 | 7.8 | 80.8 |
| | 230.0 | 68.3 | 210.0 | 1.432 | 266.6 | 412 | 7.235 | 0.036 | 9.9 | 81.0 |
| | 230.0 | 72.6 | 209.4 | 1.418 | 265.9 | 467 | 7.632 | 0.042 | 11.9 | 81.5 |
| | 230.0 | 77.7 | 210.1 | 1.397 | 264.8 | 520 | 8.127 | 0.050 | 14.2 | 82.4 |
| | 230.0 | 83.0 | 210.6 | 1.376 | 263.2 | 570 | 9.128 | 0.062 | 17.6 | 83.2 |
| | 230.0 | 88.6 | 211.3 | 1.345 | 260.3 | 618 | 9.782 | 0.072 | 20.6 | 84.2 |
| | 230.0 | 94.1 | 212.1 | 1.318 | 256.9 | 663 | 10.073 | 0.080 | 23.1 | 84.8 |
| | 230.0 | 99.6 | 213.2 | 1.282 | 252.2 | 704 | 10.764 | 0.090 | 26.7 | 85.6 |
| | 230.0 | 106.0 | 215.1 | 1.235 | 246.1 | 747 | 11.379 | 0.101 | 30.7 | 86.6 |
| | 230.0 | 112.0 | 217.2 | 1.200 | 240.9 | 785 | 11.723 | 0.110 | 33.9 | 87.3 |
| | 230.0 | 118.7 | 220.1 | 1.155 | 233.9 | 819 | 11.928 | 0.116 | 37.1 | 88.0 |
| | 230.0 | 125.8 | 223.4 | 1.107 | 226.7 | 855 | 12.190 | 0.124 | 40.8 | 89.1 |
| | 230.0 | 132.5 | 227.2 | 1.062 | 218.7 | 886 | 12.173 | 0.128 | 43.8 | 89.5 |
| | 230.0 | 139.6 | 231.5 | 1.015 | 210.1 | 914 | 12.163 | 0.132 | 47.0 | 90.0 |
| | 230.0 | 147.3 | 236.6 | 0.963 | 200.9 | 943 | 11.831 | 0.133 | 49.3 | 90.7 |
| | 230.0 | 154.3 | 241.8 | 0.919 | 193.3 | 968 | 11.650 | 0.134 | 51.8 | 91.5 |
| | 230.0 | 160.8 | 246.9 | 0.872 | 184.3 | 992 | 11.633 | 0.137 | 55.6 | 91.8 |
| | 230.0 | 168.3 | 253.6 | 0.819 | 173.4 | 1015 | 10.583 | 0.128 | 55.0 | 92.0 |
| | 230.0 | 175.6 | 260.2 | 0.763 | 162.4 | 1035 | 10.398 | 0.128 | 58.9 | 92.5 |
| | 230.0 | 182.2 | 265.8 | 0.720 | 153.4 | 1056 | 9.142 | 0.115 | 55.9 | 92.7 |
| | 230.0 | 190.1 | 274.6 | 0.656 | 139.1 | 1074 | 8.910 | 0.114 | 61.1 | 92.2 |
| | 230.0 | 195.1 | 279.2 | 0.625 | 132.2 | 1089 | 7.668 | 0.099 | 56.1 | 92.0 |
| | 230.0 | 201.1 | 285.7 | 0.581 | 122.5 | 1103 | 7.145 | 0.094 | 57.2 | 91.7 |
| | 230.0 | 207.1 | 293.8 | 0.533 | 111.5 | 1117 | 6.083 | 0.081 | 54.1 | 91.1 |
| | 230.0 | 212.3 | 299.3 | 0.506 | 105.0 | 1129 | 4.829 | 0.065 | 46.1 | 90.3 |
| | 230.0 | 217.8 | 307.7 | 0.464 | 95.8 | 1140 | 4.389 | 0.060 | 46.4 | 89.7 |
| | 230.0 | 224.2 | 318.6 | 0.434 | 88.8 | 1149 | 3.921 | 0.054 | 45.1 | 88.8 |
| | 230.0 | 230.8 | 328.5 | 0.407 | 81.8 | 1157 | 2.901 | 0.040 | 36.4 | 87.3 |
| | 230.0 | 235.6 | 335.5 | 0.385 | 75.9 | 1165 | 1.693 | 0.023 | 23.1 | 85.7 |
| | 230.0 | 238.6 | 339.5 | 0.367 | 71.4 | 1172 | 0.956 | 0.013 | 13.9 | 84.5 |
| | 230.0 | 240.9 | 343.5 | 0.341 | 64.4 | 1177 | 0.597 | 0.008 | 9.7 | 82.0 |
| | 230.0 | 242.5 | 346.4 | 0.323 | 58.7 | 1183 | 0.025 | 0.000 | 0.4 | 78.9 |





©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|


Dayton

Curve Descriptions:

Motor(1) Test 19 Start 230V 60 Hz 6P
M2 M2 5ufd Run

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 22 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 5 |
| Test Number: | 5 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.7 Deg C 54 % RH 963 hPa |
| Volts: | 230 | Tested: | 6/29/2016 5:09:48 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | REV | Gear Ratio: | 1:1 |
| Special Cond: | M2 - MEDIUM-HIGH SPEED | Bearing Friction: | -0.57 Oz-Ft |
| Speed Conn: | M2 | Windage Torque: | -0.92 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

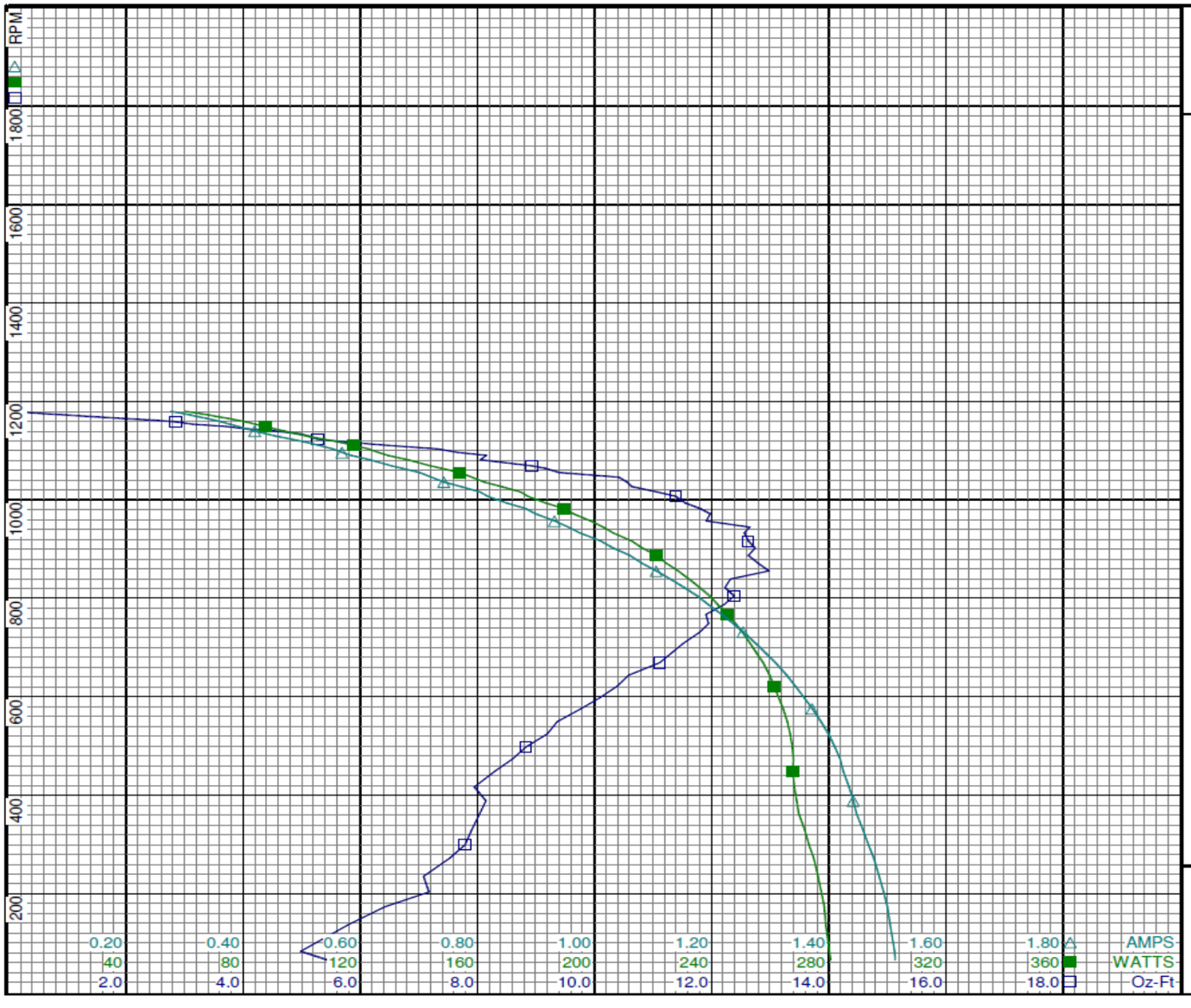
| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 230.0 | 241.7 | 345.6 | 0.276 | 60.2 | 1179 | 0.000 | 0.000 | 0.0 | 94.8 |
| | 230.0 | 239.7 | 342.6 | 0.298 | 65.3 | 1175 | 0.575 | 0.008 | 9.2 | 95.4 |
| | 230.0 | 237.0 | 338.4 | 0.322 | 71.1 | 1169 | 1.413 | 0.020 | 20.6 | 96.0 |
| | 230.0 | 233.0 | 332.7 | 0.350 | 77.8 | 1162 | 2.461 | 0.034 | 32.6 | 96.6 |
| | 230.0 | 228.6 | 324.9 | 0.377 | 84.1 | 1154 | 3.130 | 0.043 | 38.1 | 97.0 |
| | 230.0 | 221.1 | 315.0 | 0.403 | 90.2 | 1145 | 3.995 | 0.054 | 45.0 | 97.3 |
| | 230.0 | 214.3 | 305.3 | 0.438 | 98.0 | 1134 | 4.968 | 0.067 | 51.0 | 97.2 |
| | 230.0 | 209.3 | 296.8 | 0.483 | 107.7 | 1123 | 5.265 | 0.070 | 48.8 | 96.9 |
| | 230.0 | 203.1 | 289.1 | 0.529 | 117.6 | 1111 | 6.479 | 0.086 | 54.3 | 96.7 |
| **6.938 OZ-FT** | **230.0** | **201.5** | **287.1** | **0.542** | **120.4** | **1107** | **6.938** | **0.091** | **56.6** | **96.6** |
| | 230.0 | 198.1 | 283.0 | 0.569 | 126.2 | 1096 | 7.664 | 0.100 | 59.2 | 96.4 |
| | 230.0 | 191.9 | 276.9 | 0.616 | 136.2 | 1081 | 8.050 | 0.104 | 56.8 | 96.1 |
| | 230.0 | 185.5 | 269.7 | 0.670 | 147.6 | 1064 | 9.151 | 0.116 | 58.6 | 95.7 |
| **9.192 OZ-FT** | **230.0** | **184.8** | **269.0** | **0.676** | **148.6** | **1063** | **9.192** | **0.116** | **58.4** | **95.7** |
| **10.172 OZ-FT** | **230.0** | **178.8** | **263.5** | **0.717** | **157.1** | **1048** | **10.172** | **0.127** | **60.2** | **95.4** |
| | 230.0 | 178.1 | 262.9 | 0.721 | 158.1 | 1046 | 10.415 | 0.130 | 61.2 | 95.3 |
| | 230.0 | 172.3 | 256.9 | 0.772 | 168.2 | 1027 | 10.634 | 0.130 | 57.7 | 94.7 |
| | 230.0 | 164.5 | 251.1 | 0.818 | 177.2 | 1007 | 11.390 | 0.137 | 57.5 | 94.2 |
| | 230.0 | 157.1 | 243.8 | 0.883 | 189.7 | 982 | 11.806 | 0.138 | 54.3 | 93.4 |
| | 230.0 | 150.1 | 238.7 | 0.932 | 198.6 | 957 | 11.905 | 0.136 | 50.9 | 92.7 |
| | 230.0 | 143.8 | 234.2 | 0.975 | 206.4 | 933 | 12.558 | 0.139 | 50.4 | 92.0 |
| | 230.0 | 135.7 | 228.9 | 1.032 | 216.3 | 902 | 12.740 | 0.137 | 47.2 | 91.2 |
| | 230.0 | 128.7 | 224.8 | 1.080 | 224.4 | 871 | 12.789 | 0.133 | 44.1 | 90.3 |
| **BDT OZ-FT** | **230.0** | **124.9** | **222.8** | **1.106** | **228.5** | **856** | **12.981** | **0.132** | **43.2** | **89.9** |
| | 230.0 | 121.6 | 221.1 | 1.129 | 232.2 | 839 | 12.322 | 0.123 | 39.5 | 89.4 |
| | 230.0 | 114.8 | 218.1 | 1.176 | 239.4 | 804 | 12.385 | 0.119 | 37.0 | 88.5 |
| | 230.0 | 108.5 | 215.7 | 1.217 | 245.3 | 767 | 11.902 | 0.109 | 33.1 | 87.6 |
| | 230.0 | 102.8 | 214.0 | 1.254 | 250.4 | 731 | 11.800 | 0.103 | 30.6 | 86.8 |
| | 230.0 | 96.6 | 212.4 | 1.293 | 255.5 | 687 | 11.301 | 0.092 | 27.0 | 85.9 |
| | 230.0 | 90.9 | 211.4 | 1.328 | 259.8 | 644 | 10.580 | 0.081 | 23.3 | 85.0 |
| | 230.0 | 85.5 | 210.6 | 1.358 | 262.9 | 598 | 10.087 | 0.072 | 20.4 | 84.2 |
| | 230.0 | 80.1 | 210.3 | 1.387 | 265.8 | 549 | 9.365 | 0.061 | 17.2 | 83.3 |
| | 230.0 | 74.8 | 209.9 | 1.411 | 267.5 | 498 | 8.827 | 0.052 | 14.6 | 82.5 |
| | 230.0 | 70.6 | 209.4 | 1.425 | 267.7 | 449 | 8.301 | 0.044 | 12.4 | 81.7 |
| | 230.0 | 66.3 | 210.4 | 1.442 | 269.0 | 388 | 8.143 | 0.038 | 10.4 | 81.1 |
| | 230.0 | 64.3 | 212.7 | 1.458 | 271.8 | 329 | 7.903 | 0.031 | 8.5 | 81.0 |
| | 230.0 | 62.8 | 215.2 | 1.477 | 274.9 | 272 | 7.527 | 0.024 | 6.6 | 80.9 |
| | 230.0 | 61.2 | 218.1 | 1.494 | 277.5 | 203 | 7.170 | 0.017 | 4.7 | 80.8 |
| | 230.0 | 60.0 | 220.8 | 1.505 | 279.0 | 137 | 5.804 | 0.009 | 2.5 | 80.6 |
| | 230.0 | 59.1 | 223.8 | 1.514 | 280.6 | 65 | 5.438 | 0.004 | 1.1 | 80.6 |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

**Curve Descriptions:**

Motor(1) Test 5 Run 230V 60 Hz 6P
M2 - MEDIUM-HIGH SPEED M2 REV 5ufd Run

- SPEED vs TORQUE
- SPEED vs WATTS
- SPEED vs ILine

**Motor Ratings:**

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 24 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Start | Run Cap: | 5 |
| Test Number: | 20 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.2 Deg C 50 % RH 963 hPa |
| Volts: | 230 | Tested: | 6/29/2016 5:35:28 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | M3 | Bearing Friction: | -0.56 Oz-Ft |
| Speed Conn: | M3 | Windage Torque: | -1.52 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

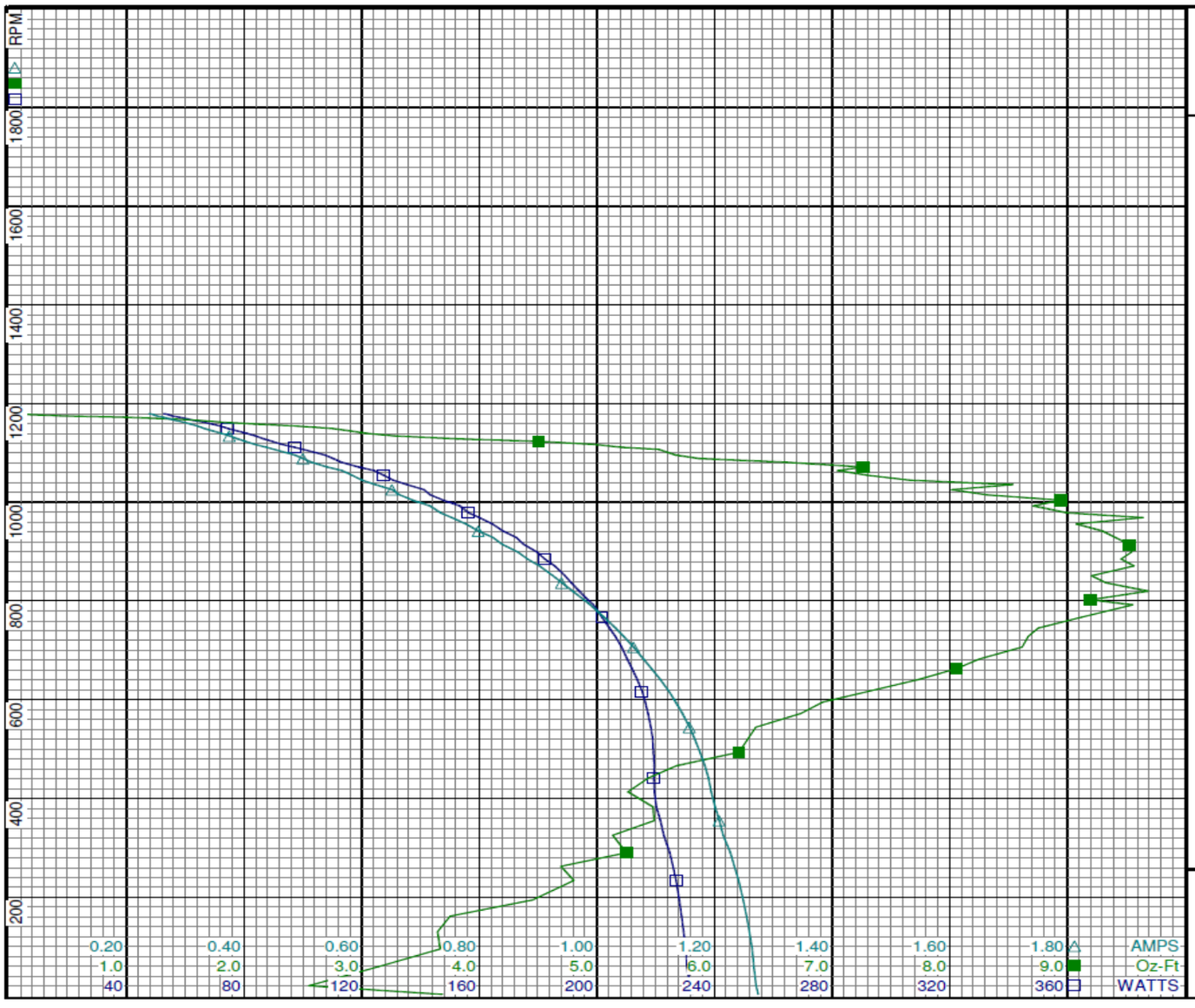
| Special Points PUT OZ-FT | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | **230.0** | **54.7** | **206.6** | **1.270** | **231.7** | **20** | **2.549** | **0.001** | **0.2** | **79.3** |
| | 230.0 | 54.7 | 206.6 | 1.270 | 231.7 | 20 | 2.549 | 0.001 | 0.2 | 79.3 |
| | 230.0 | 55.4 | 203.6 | 1.264 | 230.3 | 95 | 3.667 | 0.004 | 1.3 | 79.2 |
| | 230.0 | 56.1 | 201.1 | 1.254 | 228.8 | 161 | 3.751 | 0.007 | 2.3 | 79.3 |
| | 230.0 | 57.3 | 198.2 | 1.241 | 226.9 | 233 | 4.803 | 0.013 | 4.4 | 79.5 |
| | 230.0 | 58.4 | 195.9 | 1.227 | 224.7 | 290 | 5.251 | 0.018 | 6.0 | 79.6 |
| | 230.0 | 59.8 | 193.2 | 1.208 | 221.6 | 355 | 5.486 | 0.023 | 7.8 | 79.7 |
| | 230.0 | 62.2 | 191.3 | 1.194 | 219.5 | 413 | 5.263 | 0.026 | 8.8 | 79.9 |
| | 230.0 | 66.0 | 191.2 | 1.184 | 219.4 | 466 | 5.676 | 0.031 | 10.7 | 80.6 |
| | 230.0 | 70.6 | 191.5 | 1.166 | 218.9 | 521 | 6.286 | 0.039 | 13.3 | 81.6 |
| | 230.0 | 75.3 | 192.0 | 1.145 | 217.4 | 572 | 6.733 | 0.046 | 15.7 | 82.5 |
| | 230.0 | 80.0 | 192.4 | 1.122 | 215.3 | 617 | 7.312 | 0.054 | 18.6 | 83.4 |
| | 230.0 | 85.7 | 193.1 | 1.093 | 211.9 | 663 | 8.059 | 0.064 | 22.4 | 84.3 |
| | 230.0 | 90.9 | 194.1 | 1.062 | 208.4 | 706 | 8.616 | 0.072 | 25.9 | 85.3 |
| | 230.0 | 95.7 | 195.6 | 1.032 | 204.3 | 745 | 8.751 | 0.078 | 28.3 | 86.1 |
| | 230.0 | 102.9 | 197.8 | 0.989 | 198.8 | 792 | 9.558 | 0.090 | 33.8 | 87.4 |
| | 230.0 | 107.8 | 199.9 | 0.959 | 193.9 | 820 | 9.687 | 0.095 | 36.4 | 88.0 |
| | 230.0 | 113.3 | 202.4 | 0.925 | 189.1 | 851 | 9.206 | 0.093 | 36.8 | 88.9 |
| | 230.0 | 118.0 | 206.0 | 0.882 | 182.2 | 885 | 9.456 | 0.100 | 40.8 | 89.8 |
| | 230.0 | 127.2 | 210.0 | 0.839 | 175.1 | 915 | 9.529 | 0.104 | 44.2 | 90.7 |
| | 230.0 | 133.4 | 214.4 | 0.798 | 168.0 | 942 | 9.298 | 0.104 | 46.3 | 91.5 |
| | 230.0 | 139.8 | 219.4 | 0.753 | 160.0 | 969 | 9.642 | 0.111 | 51.9 | 92.4 |
| | 230.0 | 146.4 | 223.9 | 0.716 | 153.4 | 993 | 8.711 | 0.103 | 50.1 | 93.2 |
| | 230.0 | 153.6 | 230.4 | 0.664 | 143.3 | 1015 | 8.319 | 0.101 | 52.3 | 93.8 |
| | 230.0 | 159.3 | 235.9 | 0.623 | 135.4 | 1036 | 8.534 | 0.105 | 58.0 | 94.4 |
| | 230.0 | 165.9 | 241.7 | 0.583 | 127.4 | 1055 | 7.298 | 0.092 | 53.6 | 95.0 |
| | 230.0 | 171.2 | 247.3 | 0.541 | 118.9 | 1071 | 7.267 | 0.093 | 58.2 | 95.5 |
| | 230.0 | 177.9 | 253.9 | 0.500 | 110.3 | 1089 | 5.870 | 0.076 | 51.5 | 95.9 |
| | 230.0 | 184.3 | 261.1 | 0.451 | 99.9 | 1107 | 5.523 | 0.073 | 54.3 | 96.4 |
| | 230.0 | 188.3 | 267.0 | 0.418 | 92.8 | 1117 | 4.974 | 0.066 | 53.2 | 96.5 |
| | 230.0 | 193.3 | 273.0 | 0.389 | 86.7 | 1128 | 3.822 | 0.051 | 44.2 | 96.9 |
| | 230.0 | 198.4 | 279.5 | 0.361 | 80.8 | 1140 | 3.036 | 0.041 | 38.0 | 97.3 |
| | 230.0 | 204.9 | 289.3 | 0.332 | 74.5 | 1150 | 2.753 | 0.038 | 37.7 | 97.5 |
| | 230.0 | 211.6 | 300.1 | 0.309 | 69.0 | 1159 | 2.089 | 0.029 | 31.1 | 97.3 |
| | 230.0 | 216.7 | 308.1 | 0.282 | 62.7 | 1166 | 1.613 | 0.022 | 26.6 | 96.6 |
| | 230.0 | 219.7 | 312.8 | 0.262 | 57.8 | 1173 | 0.971 | 0.014 | 17.5 | 96.0 |
| | 230.0 | 222.2 | 316.1 | 0.245 | 54.1 | 1178 | 0.152 | 0.002 | 2.9 | 96.0 |
| | 230.0 | 222.8 | 317.1 | 0.238 | 52.6 | 1180 | 0.000 | 0.000 | 0.0 | 96.0 |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Dayton

Curve Descriptions:

Motor(1) Test 20 Start 230V 60 Hz 6P
M3 M3 5ufd Run

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 26 of 32 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 5 |
| Test Number: | 14 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.2 Deg C 50 % RH 963 hPa |
| Volts: | 230 | Tested: | 6/29/2016 5:26:40 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | REV | Gear Ratio: | 1:1 |
| Special Cond: | M3 - MEDIUM-LOW SPEED | Bearing Friction: | -0.59 Oz-Ft |
| Speed Conn: | M3 | Windage Torque: | -1.17 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 230.0 | 223.3 | 317.8 | 0.232 | 51.1 | 1179 | 0.000 | 0.000 | 0.0 | 95.7 |
| | 230.0 | 221.5 | 315.0 | 0.249 | 54.9 | 1175 | 0.548 | 0.008 | 10.4 | 96.0 |
| | 230.0 | 217.8 | 310.9 | 0.268 | 59.2 | 1169 | 1.411 | 0.020 | 24.7 | 96.1 |
| | 230.0 | 215.0 | 306.2 | 0.290 | 64.5 | 1162 | 2.143 | 0.030 | 34.3 | 96.9 |
| | 230.0 | 209.7 | 298.3 | 0.314 | 70.3 | 1154 | 2.716 | 0.037 | 39.6 | 97.3 |
| | 230.0 | 202.3 | 286.2 | 0.340 | 76.3 | 1144 | 2.812 | 0.038 | 37.5 | 97.5 |
| | 230.0 | 195.7 | 276.2 | 0.371 | 82.9 | 1134 | 3.706 | 0.050 | 45.0 | 97.2 |
| | 230.0 | 190.6 | 269.8 | 0.400 | 89.0 | 1123 | 4.716 | 0.063 | 52.8 | 96.7 |
| **5.487 OZ-FT** | **230.0** | **185.8** | **264.2** | **0.431** | **95.7** | **1111** | **5.487** | **0.073** | **56.5** | **96.6** |
| | 230.0 | 185.6 | 264.0 | 0.432 | 96.0 | 1110 | 5.514 | 0.073 | 56.6 | 96.6 |
| | 230.0 | 180.3 | 257.0 | 0.479 | 105.9 | 1095 | 5.777 | 0.075 | 53.1 | 96.2 |
| | 230.0 | 174.7 | 250.5 | 0.519 | 114.4 | 1081 | 6.968 | 0.090 | 58.5 | 95.8 |
| **7.269 OZ-FT** | **230.0** | **172.8** | **248.9** | **0.529** | **116.5** | **1076** | **7.269** | **0.093** | **59.6** | **95.7** |
| | 230.0 | 169.0 | 245.7 | 0.552 | 121.3 | 1064 | 7.794 | 0.099 | 60.7 | 95.5 |
| | 230.0 | 162.1 | 238.1 | 0.607 | 132.4 | 1045 | 7.798 | 0.097 | 54.7 | 94.8 |
| **8.048 OZ-FT** | **230.0** | **160.3** | **236.2** | **0.620** | **135.1** | **1040** | **8.048** | **0.100** | **55.0** | **94.6** |
| | 230.0 | 156.4 | 233.2 | 0.641 | 139.1 | 1026 | 8.999 | 0.110 | 59.0 | 94.3 |
| | 230.0 | 149.6 | 226.9 | 0.692 | 149.0 | 1004 | 8.960 | 0.107 | 53.6 | 93.6 |
| | 230.0 | 143.6 | 222.1 | 0.730 | 155.9 | 981 | 9.505 | 0.111 | 53.1 | 92.9 |
| | 230.0 | 137.0 | 217.3 | 0.771 | 163.5 | 958 | 10.039 | 0.114 | 52.2 | 92.2 |
| **BDT OZ-FT** | **230.0** | **130.1** | **212.3** | **0.816** | **171.4** | **931** | **10.733** | **0.119** | **51.8** | **91.3** |
| | 230.0 | 130.1 | 212.3 | 0.816 | 171.4 | 931 | 10.733 | 0.119 | 51.8 | 91.3 |
| | 230.0 | 123.3 | 207.8 | 0.861 | 179.2 | 902 | 10.605 | 0.114 | 47.4 | 90.5 |
| | 230.0 | 117.2 | 204.3 | 0.900 | 185.4 | 872 | 10.703 | 0.111 | 44.7 | 89.6 |
| | 230.0 | 111.1 | 201.3 | 0.940 | 191.5 | 839 | 10.390 | 0.104 | 40.4 | 88.6 |
| | 230.0 | 104.8 | 198.5 | 0.978 | 197.2 | 804 | 10.436 | 0.100 | 37.8 | 87.7 |
| | 230.0 | 99.2 | 196.5 | 1.013 | 202.1 | 768 | 9.982 | 0.091 | 33.7 | 86.7 |
| | 230.0 | 93.3 | 194.6 | 1.048 | 206.8 | 727 | 9.537 | 0.083 | 29.8 | 85.8 |
| | 230.0 | 88.1 | 193.4 | 1.079 | 210.6 | 686 | 9.224 | 0.075 | 26.7 | 84.9 |
| | 230.0 | 83.5 | 192.6 | 1.104 | 213.5 | 646 | 9.102 | 0.070 | 24.5 | 84.1 |
| | 230.0 | 78.1 | 192.0 | 1.134 | 216.8 | 597 | 8.560 | 0.061 | 20.9 | 83.2 |
| | 230.0 | 73.4 | 191.8 | 1.155 | 218.6 | 549 | 8.046 | 0.053 | 17.9 | 82.3 |
| | 230.0 | 68.6 | 191.4 | 1.175 | 219.7 | 497 | 7.049 | 0.042 | 14.2 | 81.3 |
| | 230.0 | 64.0 | 191.3 | 1.190 | 220.1 | 445 | 6.890 | 0.036 | 12.4 | 80.4 |
| | 230.0 | 60.8 | 191.7 | 1.200 | 220.2 | 387 | 6.363 | 0.029 | 9.9 | 79.8 |
| | 230.0 | 59.2 | 193.9 | 1.212 | 222.3 | 331 | 6.545 | 0.026 | 8.7 | 79.7 |
| | 230.0 | 58.0 | 196.7 | 1.231 | 225.6 | 267 | 6.182 | 0.020 | 6.5 | 79.7 |
| | 230.0 | 56.7 | 199.4 | 1.245 | 227.8 | 200 | 5.595 | 0.013 | 4.4 | 79.5 |
| | 230.0 | 55.8 | 201.8 | 1.255 | 229.1 | 139 | 5.237 | 0.009 | 2.8 | 79.4 |
| | 230.0 | 55.2 | 204.9 | 1.262 | 230.4 | 62 | 4.392 | 0.003 | 1.0 | 79.3 |

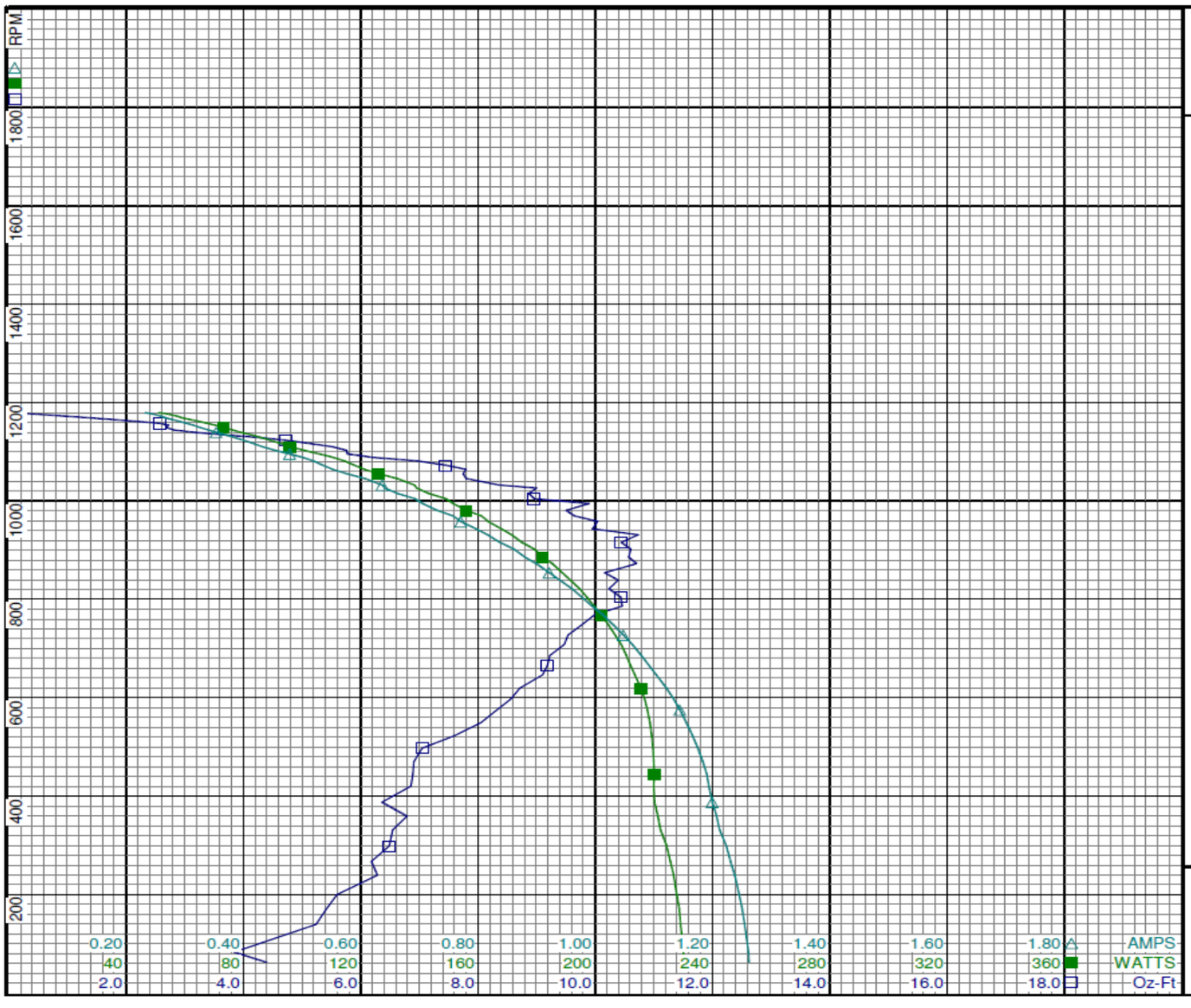




©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|




Curve Descriptions:

Motor(1) Test 14 Run 230V 60 Hz 6P
M3 - MEDIUM-LOW SPEED M3 REV 5ufd Run

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

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 28 of 32 | REV. |
|---|---|---|
| 3LU72BG | | 0 |

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

©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. - |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Start | Run Cap: | 5 |
| Test Number: | 22 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.7 Deg C 54 % RH 963 hPa |
| Volts: | 230 | Tested: | 6/29/2016 4:53:54 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | | Gear Ratio: | 1:1 |
| Special Cond: | M4 | Bearing Friction: | -0.60 Oz-Ft |
| Speed Conn: | M4 | Windage Torque: | -1.37 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

| Special Points PUT OZ-FT | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | **230.0** | **51.4** | **190.5** | **1.073** | **192.34** | **21** | **1.834** | **0.000** | **0.2** | **77.9** |
| | 230.0 | 51.4 | 190.5 | 1.073 | 192.34 | 21 | 1.834 | 0.000 | 0.2 | 77.9 |
| | 230.0 | 51.8 | 188.1 | 1.068 | 191.43 | 89 | 1.917 | 0.002 | 0.8 | 77.9 |
| | 230.0 | 52.5 | 185.3 | 1.060 | 190.23 | 161 | 3.211 | 0.006 | 2.4 | 78.1 |
| | 230.0 | 53.3 | 182.9 | 1.049 | 188.83 | 225 | 3.498 | 0.009 | 3.7 | 78.2 |
| | 230.0 | 54.5 | 179.6 | 1.030 | 185.93 | 307 | 4.796 | 0.018 | 7.0 | 78.5 |
| | 230.0 | 55.5 | 177.6 | 1.018 | 183.72 | 356 | 4.037 | 0.017 | 6.9 | 78.5 |
| | 230.0 | 57.3 | 175.8 | 1.006 | 182.11 | 413 | 4.412 | 0.022 | 8.9 | 78.7 |
| | 230.0 | 60.5 | 175.7 | 0.998 | 182.11 | 468 | 4.390 | 0.024 | 10.0 | 79.3 |
| | 230.0 | 65.2 | 176.3 | 0.985 | 182.33 | 522 | 5.137 | 0.032 | 13.1 | 80.5 |
| | 230.0 | 69.6 | 176.6 | 0.967 | 181.21 | 571 | 5.667 | 0.039 | 15.9 | 81.5 |
| | 230.0 | 73.9 | 176.9 | 0.947 | 179.51 | 617 | 6.155 | 0.045 | 18.8 | 82.4 |
| | 230.0 | 78.6 | 177.4 | 0.923 | 176.98 | 663 | 6.569 | 0.052 | 21.9 | 83.3 |
| | 230.0 | 84.6 | 178.5 | 0.892 | 173.49 | 715 | 7.449 | 0.063 | 27.3 | 84.6 |
| | 230.0 | 85.8 | 179.6 | 0.871 | 170.56 | 744 | 7.346 | 0.065 | 28.5 | 85.2 |
| | 230.0 | 93.7 | 181.3 | 0.841 | 166.74 | 784 | 7.473 | 0.070 | 31.2 | 86.2 |
| | 230.0 | 98.8 | 183.3 | 0.812 | 162.81 | 819 | 7.571 | 0.074 | 33.8 | 87.2 |
| | 230.0 | 104.7 | 186.2 | 0.777 | 157.40 | 852 | 7.901 | 0.080 | 38.0 | 88.1 |
| | 230.0 | 110.8 | 189.0 | 0.744 | 152.55 | 885 | 7.386 | 0.078 | 38.1 | 89.1 |
| | 230.0 | 116.7 | 192.7 | 0.709 | 146.74 | 915 | 7.484 | 0.081 | 41.4 | 90.0 |
| | 230.0 | 122.4 | 196.9 | 0.672 | 140.61 | 942 | 7.758 | 0.087 | 46.1 | 90.9 |
| | 230.0 | 128.5 | 201.2 | 0.635 | 134.07 | 969 | 8.246 | 0.095 | 52.9 | 91.8 |
| | 230.0 | 134.3 | 205.2 | 0.605 | 128.94 | 992 | 6.928 | 0.082 | 47.4 | 92.6 |
| | 230.0 | 140.8 | 210.7 | 0.565 | 121.21 | 1013 | 6.756 | 0.082 | 50.2 | 93.3 |
| | 230.0 | 146.3 | 216.0 | 0.528 | 114.08 | 1035 | 7.097 | 0.087 | 57.2 | 94.0 |
| | 230.0 | 152.5 | 221.3 | 0.493 | 107.35 | 1054 | 5.957 | 0.075 | 51.9 | 94.6 |
| | 230.0 | 159.1 | 229.3 | 0.442 | 96.91 | 1076 | 5.684 | 0.073 | 56.0 | 95.4 |
| | 230.0 | 162.6 | 232.2 | 0.424 | 93.40 | 1089 | 4.791 | 0.062 | 49.6 | 95.7 |
| | 230.0 | 168.2 | 238.8 | 0.384 | 84.95 | 1105 | 4.569 | 0.060 | 52.8 | 96.1 |
| | 230.0 | 173.1 | 245.0 | 0.354 | 78.44 | 1117 | 3.887 | 0.052 | 49.2 | 96.4 |
| | 230.0 | 177.3 | 249.8 | 0.330 | 73.63 | 1128 | 2.896 | 0.039 | 39.4 | 96.9 |
| | 230.0 | 182.5 | 256.9 | 0.303 | 67.81 | 1140 | 2.680 | 0.036 | 40.0 | 97.4 |
| | 230.0 | 188.3 | 266.2 | 0.281 | 62.99 | 1149 | 2.213 | 0.030 | 35.9 | 97.6 |
| | 230.0 | 195.6 | 277.8 | 0.260 | 58.07 | 1159 | 2.009 | 0.028 | 35.6 | 97.3 |
| | 230.0 | 200.6 | 284.8 | 0.244 | 54.26 | 1166 | 1.013 | 0.014 | 19.3 | 96.8 |
| | 230.0 | 203.7 | 288.6 | 0.230 | 51.25 | 1172 | 0.397 | 0.006 | 8.1 | 96.7 |
| | 230.0 | 205.9 | 292.3 | 0.212 | 47.05 | 1177 | 0.021 | 0.000 | 0.5 | 96.6 |

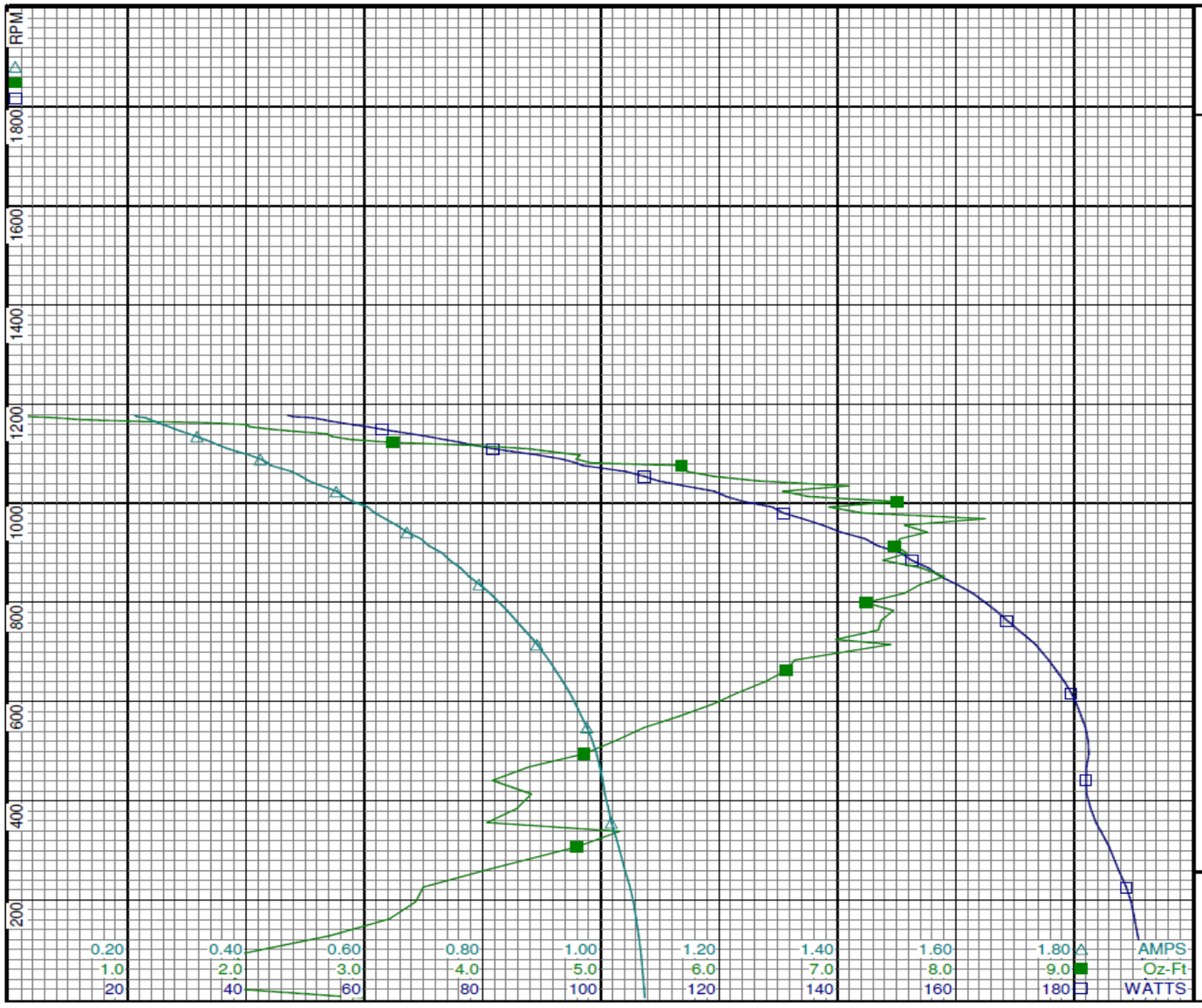
| DRAWING NO. | PAGE 29 of 32 | REV. |
|---|---|---|
| 3LU72BG | | 0 |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. 0 |
|---|---|




Curve Descriptions:

Motor(1) Test 22 Start 230V 60 Hz 6P
M4 M4 5ufd Run

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

Motor Ratings:

(1) K55HXHXLNY-2516 ID: 1

| DRAWING NO. | PAGE 30 of 32 | REV. |
|---|---|---|
| | 3LU72BG | 0 |

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

©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. 0 |
|---|---|

## Dayton Manufacturing Company

### Motor Description

| | |
|---|---|
| Model: | K55HXHXLNY-2516 |
| Motor ID: | 1 |
| Poles: | 6 |
| Volts: | 208-230 |
| Frequency: | 60 |
| HP: | 1/6 |
| Speed: | 1075 |
| Phase: | 1 |
| Protector: | 7AM036-A5 |

### Test Conditions

| | | | |
|---|---|---|---|
| Test Type: | Run | Run Cap: | 5 |
| Test Number: | 6 | Start Cap: | 0µfd |
| Poles: | 6 | Environment: | 23.7 Deg C 54 % RH 963 hPa |
| Volts: | 230 | Tested: | 6/29/2016 4:52:33 PM |
| Hz: | 60 | Tested By: | Bribiesca, Griselda |
| Rotation: | REV | Gear Ratio: | 1:1 |
| Special Cond: | M4 - LOW SPEED | Bearing Friction: | -0.52 Oz-Ft |
| Speed Conn: | M4 | Windage Torque: | -1.09 Oz-Ft |
| TestBoard: | CMD InLine Three Phase #2 Fixture #1 | | |

| Special Points | Vline(V) | Vaux(V) | Vcap(V) | Iline(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 230.0 | 206.9 | 294.1 | 0.200 | 44.23 | 1179 | 0.000 | 0.000 | 0.0 | 96.3 |
| | 230.0 | 205.3 | 291.9 | 0.211 | 46.86 | 1175 | 0.434 | 0.006 | 9.7 | 96.5 |
| | 230.0 | 202.4 | 288.3 | 0.227 | 50.47 | 1169 | 1.128 | 0.016 | 23.2 | 96.6 |
| | 230.0 | 198.7 | 283.2 | 0.247 | 54.98 | 1162 | 1.747 | 0.024 | 32.8 | 96.9 |
| | 230.0 | 193.1 | 274.4 | 0.268 | 60.00 | 1153 | 1.992 | 0.027 | 34.0 | 97.4 |
| | 230.0 | 185.8 | 262.7 | 0.288 | 64.62 | 1144 | 2.298 | 0.031 | 36.1 | 97.6 |
| | 230.0 | 179.8 | 253.9 | 0.312 | 69.64 | 1134 | 3.169 | 0.043 | 45.8 | 97.2 |
| | 230.0 | 174.9 | 247.2 | 0.339 | 75.46 | 1123 | 3.897 | 0.052 | 51.5 | 96.7 |
| **4.508 OZ-FT** | **230.0** | **170.5** | **242.1** | **0.366** | **81.16** | **1110** | **4.508** | **0.060** | **54.8** | **96.5** |
| | 230.0 | 170.2 | 241.8 | 0.368 | 81.58 | 1109 | 4.537 | 0.060 | 54.8 | 96.4 |
| | 230.0 | 165.3 | 235.6 | 0.403 | 89.12 | 1097 | 4.709 | 0.061 | 51.5 | 96.0 |
| | 230.0 | 160.4 | 230.1 | 0.435 | 95.63 | 1081 | 5.917 | 0.076 | 59.4 | 95.5 |
| **6.03 OZ-FT** | **230.0** | **159.6** | **229.4** | **0.439** | **96.46** | **1079** | **6.030** | **0.077** | **59.9** | **95.5** |
| | 230.0 | 155.1 | 225.0 | 0.468 | 102.25 | 1063 | 6.224 | 0.079 | 57.5 | 95.0 |
| **6.691 OZ-FT** | **230.0** | **149.2** | **218.7** | **0.510** | **110.77** | **1046** | **6.691** | **0.083** | **56.1** | **94.5** |
| | 230.0 | 149.0 | 218.4 | 0.512 | 111.21 | 1046 | 6.727 | 0.084 | 56.2 | 94.5 |
| | 230.0 | 143.9 | 214.0 | 0.540 | 116.61 | 1026 | 7.121 | 0.087 | 55.6 | 93.8 |
| | 230.0 | 137.2 | 208.1 | 0.583 | 124.85 | 1005 | 8.060 | 0.096 | 57.6 | 93.1 |
| | 230.0 | 131.1 | 203.4 | 0.620 | 131.58 | 981 | 7.715 | 0.090 | 51.1 | 92.3 |
| | 230.0 | 125.2 | 198.5 | 0.658 | 138.60 | 957 | 8.028 | 0.091 | 49.2 | 91.5 |
| | 230.0 | 119.5 | 195.0 | 0.688 | 143.42 | 931 | 8.480 | 0.094 | 48.9 | 90.6 |
| | 230.0 | 113.2 | 190.8 | 0.726 | 149.75 | 901 | 8.529 | 0.092 | 45.6 | 89.7 |
| **BDT OZ-FT** | **230.0** | **110.1** | **189.0** | **0.744** | **152.77** | **887** | **9.227** | **0.097** | **47.6** | **89.3** |
| | 230.0 | 107.7 | 187.7 | 0.758 | 154.98 | 873 | 8.582 | 0.089 | 42.9 | 88.9 |
| | 230.0 | 101.6 | 184.7 | 0.794 | 160.20 | 839 | 8.590 | 0.086 | 39.9 | 87.7 |
| | 230.0 | 95.8 | 181.9 | 0.829 | 165.63 | 804 | 8.411 | 0.081 | 36.3 | 86.9 |
| | 230.0 | 91.0 | 180.3 | 0.857 | 169.23 | 768 | 8.261 | 0.076 | 33.3 | 85.9 |
| | 230.0 | 86.1 | 178.9 | 0.884 | 172.63 | 728 | 7.995 | 0.069 | 30.0 | 84.9 |
| | 230.0 | 81.2 | 177.7 | 0.912 | 175.97 | 687 | 7.713 | 0.063 | 26.7 | 83.9 |
| | 230.0 | 76.7 | 177.0 | 0.935 | 178.55 | 647 | 7.544 | 0.058 | 24.3 | 83.0 |
| | 230.0 | 71.8 | 176.5 | 0.959 | 180.78 | 598 | 6.841 | 0.049 | 20.1 | 82.0 |
| | 230.0 | 67.3 | 176.4 | 0.979 | 182.48 | 548 | 6.556 | 0.043 | 17.5 | 81.1 |
| | 230.0 | 63.5 | 176.1 | 0.993 | 183.07 | 501 | 6.113 | 0.036 | 14.9 | 80.2 |
| | 230.0 | 59.0 | 175.6 | 1.005 | 182.96 | 445 | 5.880 | 0.031 | 12.7 | 79.1 |
| | 230.0 | 56.1 | 176.1 | 1.012 | 182.76 | 389 | 5.417 | 0.025 | 10.3 | 78.5 |
| | 230.0 | 54.9 | 178.2 | 1.024 | 184.84 | 331 | 5.589 | 0.022 | 8.9 | 78.5 |
| | 230.0 | 54.1 | 180.9 | 1.038 | 187.21 | 271 | 5.171 | 0.017 | 6.6 | 78.4 |
| | 230.0 | 53.0 | 183.6 | 1.052 | 189.35 | 203 | 4.733 | 0.011 | 4.5 | 78.2 |
| | 230.0 | 52.2 | 186.3 | 1.063 | 191.08 | 135 | 4.348 | 0.007 | 2.7 | 78.2 |
| | 230.0 | 51.7 | 188.9 | 1.068 | 191.75 | 65 | 3.841 | 0.003 | 1.2 | 78.1 |

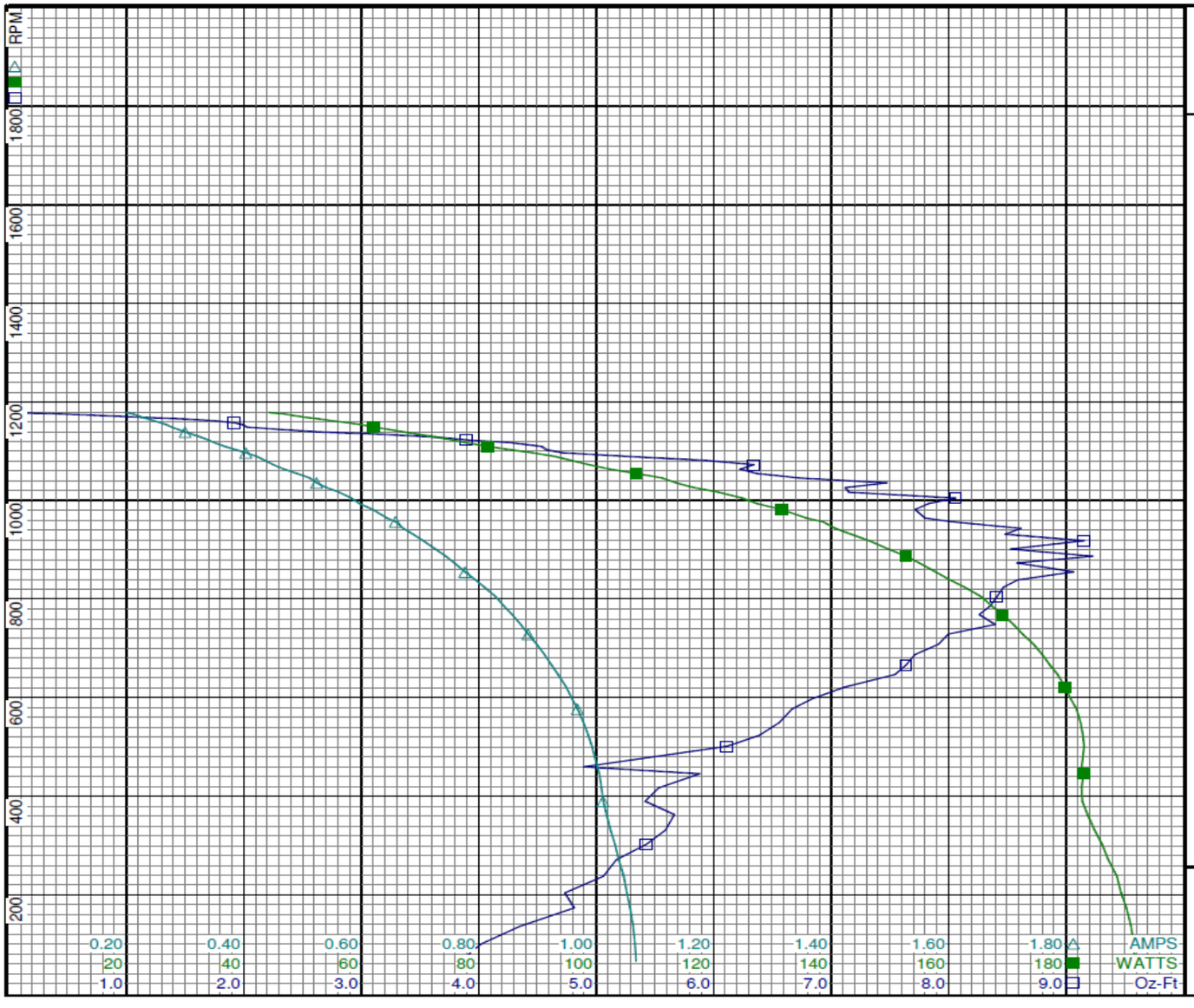




©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Performance Data

| 3LU72BG | REV. 0 |
|---|---|




Dayton

**Curve Descriptions:**

Motor(1) Test 6 Run 230V 60 Hz 6P
M4 - LOW SPEED M4 REV 5ufd Run

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

**Motor Ratings:**

(1) K55HXHXLNY-2516 ID: 1

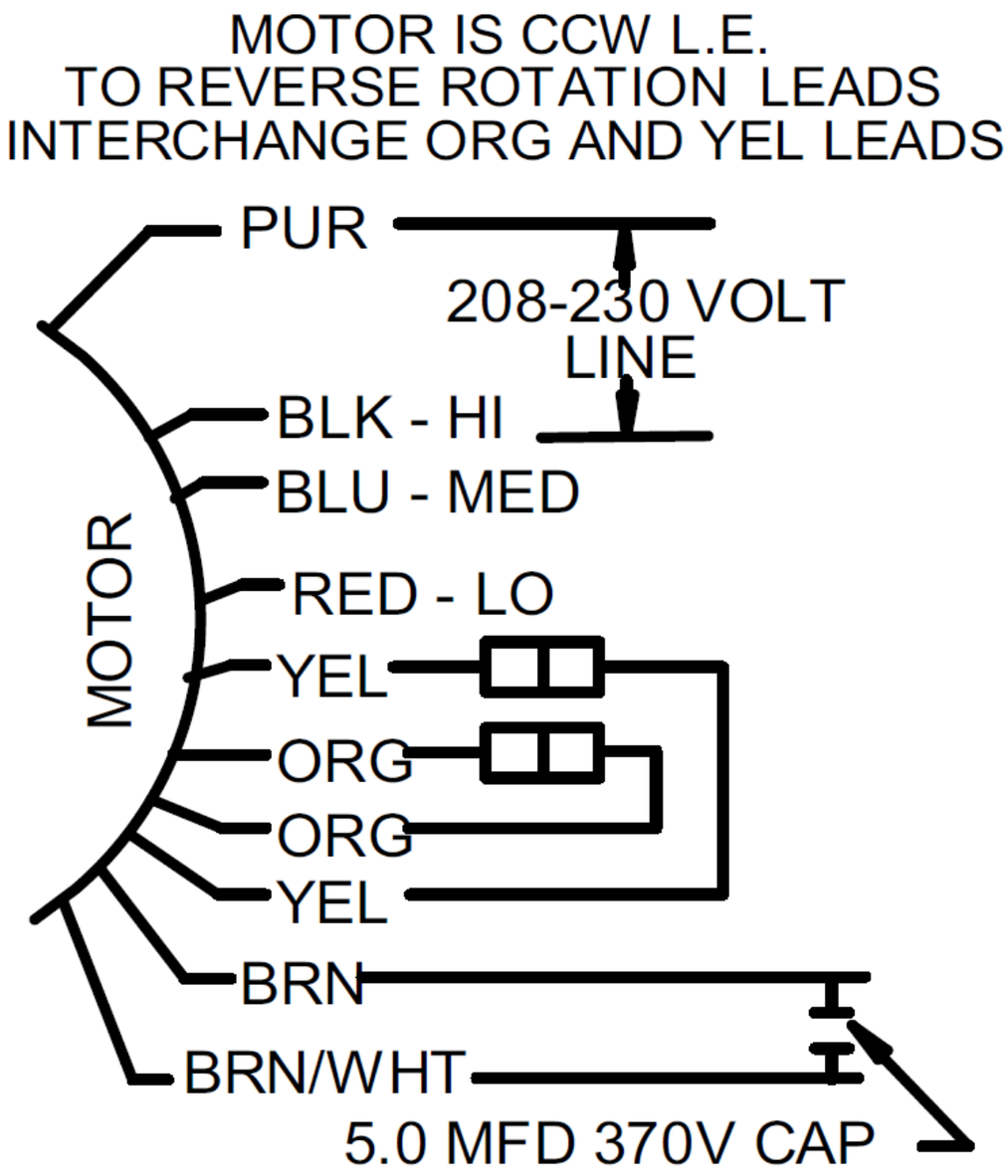
| DRAWING NO. | PAGE 32 of 32 | REV. |
|---|---|---|
| 3LU72BG | | 0 |

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

©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

# Wiring Diagram

| 3LU72BG | REV. - |
|---|---|




| DRAWING NO. | PAGE 1 of 1 | REV. |
|---|---|---|
| 3LU72BG | | - |



©2020 W.W. Grainger, Inc. This design may not be reproduced, modified or redistributed without written permission from W.W. Grainger, Inc.

Dayton®

# DIRECT DRIVE BLOWER MOTOR

Part No
3LU72BG

BAR CODE

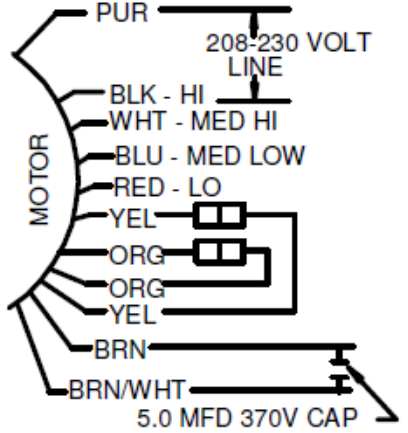
**HP:** 1/6 **PH:** 1
**VOLTS:** 208-230 **HZ:** 60
**AMPS:** 1.13 - 1.2 **FR:** 48YZ
**RPM:** 1075 / 4SPD **INS CL:** B
**DUTY:** CONT **AMB:** 40°C
**ENCL:** OAO
**THERMALLY PROTECTED:** AUTO
MFG. NO. PROT. CODE : 7A010 AVG.F.L
**MTR REF: K55HXLNY-2516** EFF.

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

E37403

258501

MOTOR IS CCW L.E.
TO REVERSE ROTATION LEADS
INTERCHANGE ORG AND YEL LEADS




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