

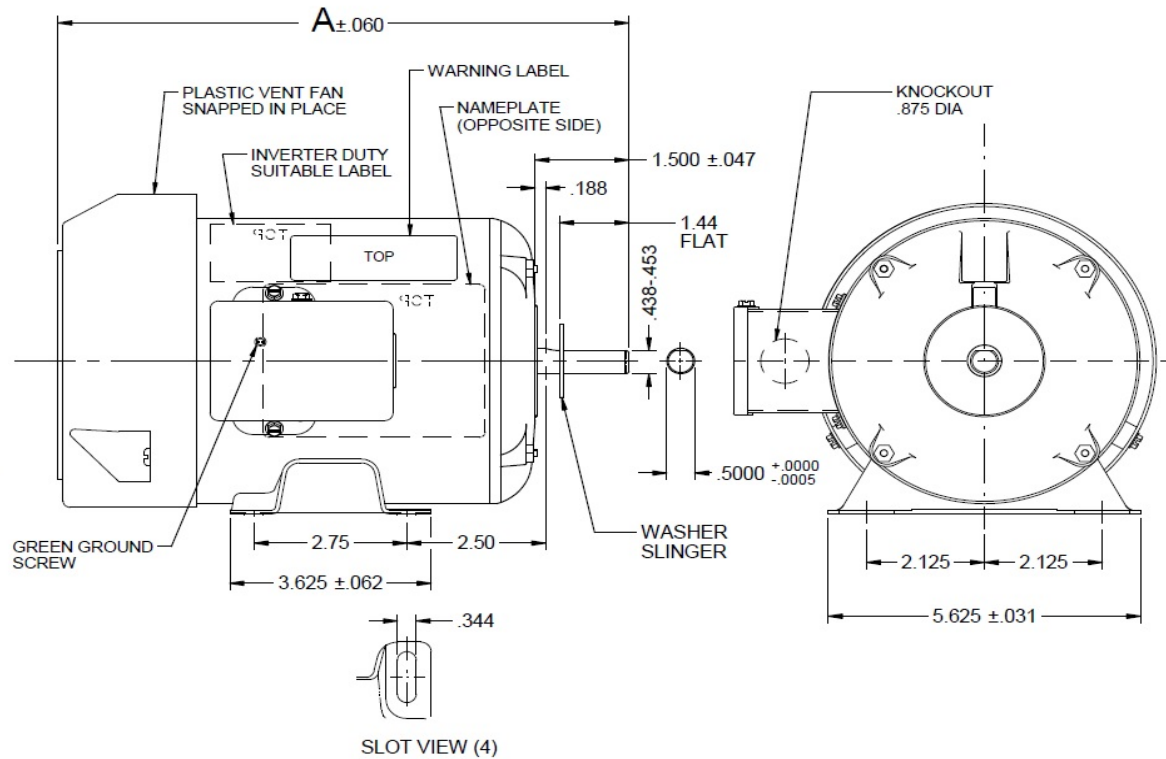
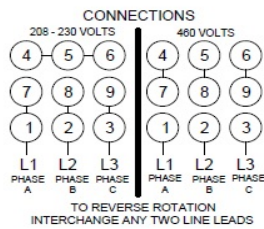
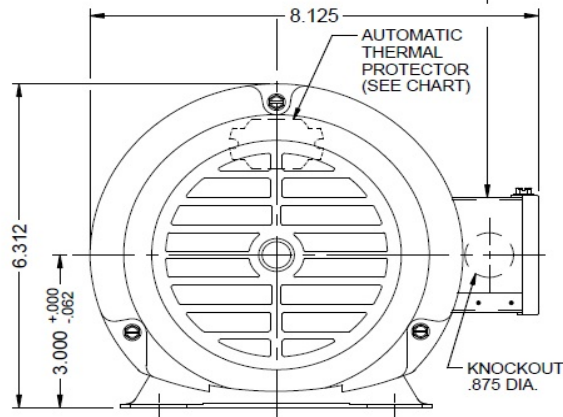
Dimensional Drawing

10C899B

REV.
-

| VAR | MODEL | CUST. PT. NO. | A | B | C | D | HP | VOLTS | SF | AMPS | HZ | RPM | CONN VOLTS | PROT. | DESCRIPTION / REMARKS |
|-----|-------------|---------------|--------|-------|-------|-------|-----|-------------|-----|-------------|-------|-----------|------------|-------|--|
| 001 | P55DHK-1616 | 10C899B | 11.514 | ----- | ----- | ----- | 3/4 | 208-230/460 | 1.0 | 2.8-2.8/1.5 | 60&50 | 1725&1425 | 460 | NONE | 48, TEFC BALL BEARING, 2:1 CONSTANT TORQUE |

(9) LEADS, #18, .031 THICK INSULATION TO EXTEND BEYOND MOTOR INTO CONDUIT BOX .6.000+2-0. LEADS TO BE SKINNED .500. LEADS TO BE NUMBERED 1 THRU 9.



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10C899B -

10C899B

REV.

-

THREE PHASE MOTOR PERFORMANCE

| | | | | | | |
|-------------------------------------|-----------------|-------|-------|-------|-------|-------|
| HP: | 3/4 | | | | | |
| Poles: | 4 | | | | | |
| Volts: | 208-230/460 | 208 | 230 | 460 | 190 | 380 |
| HZ: | 60/50 | 60 | 60 | 60 | 50 | 50 |
| Service Factor: | 1 | | | | | |
| Efficiency (%): | Full Load | 78.8 | 78.5 | 78.2 | 76.9 | 77.5 |
| | Service Factor | | | | | |
| | 3/4 | | | | | |
| | 1/2 | | | | | |
| Power Factor (%): | Full Load | 73.6 | 66.9 | 66.2 | 68.3 | 67.2 |
| | Service Factor | | | | | |
| | 3/4 | | | | | |
| | 1/2 | | | | | |
| Amps: | Full Load | 2.7 | 2.7 | 1.4 | 3 | 1.5 |
| | Service Factor | 2.9 | 2.9 | 1.5 | - | - |
| | 3/4 | | | | | |
| | 1/2 | | | | | |
| | 1/4 | | | | | |
| | No Load | | | | | |
| | Locked Rotor | 17 | 17.8 | 9.2 | 16.2 | 5.5 |
| NEMA Code Letter: | | | | | | |
| NEMA Design Letter: | | | | | | |
| Full Load RPM: | | 1715 | 1722 | 1723 | 1404 | 1416 |
| NEMA Nominal Efficiency (%): | | | | | | |
| Guaranteed Efficiency (%): | | | | | | |
| Max KVAR: | | | | | | |
| Ambient (°C): | 40 | | | | | |
| Altitude (FASL): | | | | | | |
| Full Load Torque | Lb.Ft. / Oz.Ft. | | | | | |
| | (Circle One) | 36.7 | 36.6 | 36.6 | 44.9 | 44.5 |
| Torques: % Full-Load | Breakdown | 147.2 | 172.2 | 176.2 | 153.1 | 163.1 |
| | Locked Rotor | 137.9 | 172.1 | 173.8 | 160.4 | 162.2 |
| | Pull-Up | 137.9 | 167.8 | 172.3 | 151.9 | 158.5 |
| | Service Factor | 42.6 | 42.4 | 42.3 | - | - |
| Temperature Rise: | Full Load | 51.8 | 53.8 | 55 | 63.8 | 63.5 |
| | Service Factor | 59.8 | 62.7 | 60.4 | - | - |
| Winding Material: | Cu | | | | | |

Notes:

| | | |
|-------------|-------------|------|
| DRAWING NO. | PAGE 1 of 1 | REV. |
| | 10C899B | - |

Performance Data



10C899B

REV.

-

Dayton Manufacturing Company

Motor Description

Model: P055DHK1616 10C899B
 Motor ID: 1 of 1
 Poles: 4
 Volts: 208-230/460
 Frequency: 60
 HP: 3/4
 Speed: 1725
 Phase: 3
 Protector: -

Test Conditions

Test Type: Start Run Cap: 0
 Test Number: 13 Start Cap: 0µfd
 Poles: 4 Environment: 24.4 Deg C 52 % RH 971 hPa
 Volts: 230 Tested: 4/5/2016 9:22:58 AM
 Hz: 60 Tested By: Navarro, Susana
 Rotation: Gear Ratio: 1:1
 Special Cond: Bearing Friction: -0.19 Oz-Ft
 Speed Conn: Windage Torque: -1.31 Oz-Ft
 TestBoard: CMD InLine Three Phase #2 Fixture #1

| Special Points | Vab (V) | Vbc (V) | Vca (V) | Ia (A) | Ib (A) | Ic (A) | Watts | RPM | Tq (Oz-ft) | HP | Eff (%) | PF (%) |
|------------------|--------------|--------------|--------------|---------------|---------------|---------------|-------------|-------------|---------------|--------------|-------------|-------------|
| | 229.7 | 230.1 | 230.2 | 17.832 | 17.835 | 17.764 | 5363 | 0 | 172.08 | 0.000 | 0.0 | 75.6 |
| | 229.7 | 230.0 | 230.2 | 17.131 | 17.098 | 17.119 | 5239 | 190 | 172.51 | 0.390 | 5.6 | 76.8 |
| | 229.7 | 230.0 | 230.2 | 16.399 | 16.405 | 16.403 | 5100 | 342 | 175.69 | 0.714 | 10.5 | 78.1 |
| | 229.7 | 230.0 | 230.2 | 15.648 | 15.653 | 15.650 | 4941 | 486 | 176.16 | 1.019 | 15.4 | 79.2 |
| | 229.7 | 230.0 | 230.2 | 14.837 | 14.867 | 14.843 | 4758 | 621 | 177.67 | 1.313 | 20.6 | 80.4 |
| | 229.7 | 230.0 | 230.2 | 14.047 | 14.065 | 14.058 | 4567 | 741 | 177.16 | 1.563 | 25.5 | 81.6 |
| | 229.7 | 230.0 | 230.2 | 13.231 | 13.246 | 13.243 | 4359 | 853 | 175.58 | 1.782 | 30.5 | 82.6 |
| | 229.7 | 230.0 | 230.2 | 12.373 | 12.380 | 12.372 | 4126 | 958 | 172.33 | 1.966 | 35.5 | 83.7 |
| PUT OZ-FT | 229.7 | 230.0 | 230.3 | 11.494 | 11.501 | 11.497 | 3878 | 1056 | 167.76 | 2.109 | 40.6 | 84.7 |
| | 229.7 | 230.0 | 230.3 | 11.494 | 11.501 | 11.497 | 3878 | 1056 | 167.76 | 2.109 | 40.6 | 84.7 |
| | 229.8 | 230.0 | 230.2 | 10.569 | 10.568 | 10.568 | 3603 | 1149 | 161.63 | 2.211 | 45.8 | 85.6 |
| | 229.8 | 230.0 | 230.2 | 9.682 | 9.679 | 9.677 | 3329 | 1231 | 154.05 | 2.258 | 50.6 | 86.3 |
| | 229.8 | 230.0 | 230.3 | 8.843 | 8.836 | 8.838 | 3060 | 1303 | 145.30 | 2.253 | 54.9 | 86.9 |
| | 229.8 | 230.0 | 230.3 | 7.986 | 7.977 | 7.978 | 2774 | 1371 | 135.17 | 2.206 | 59.3 | 87.3 |
| | 229.8 | 230.0 | 230.3 | 7.137 | 7.122 | 7.128 | 2483 | 1434 | 123.84 | 2.114 | 63.5 | 87.4 |
| | 229.8 | 230.0 | 230.2 | 6.326 | 6.305 | 6.314 | 2193 | 1490 | 111.56 | 1.979 | 67.3 | 87.2 |
| | 229.8 | 230.0 | 230.2 | 5.604 | 5.573 | 5.590 | 1927 | 1538 | 99.55 | 1.823 | 70.6 | 86.6 |
| | 229.8 | 230.0 | 230.2 | 4.938 | 4.897 | 4.923 | 1675 | 1581 | 87.46 | 1.646 | 73.3 | 85.5 |
| | 229.8 | 230.0 | 230.2 | 4.163 | 4.101 | 4.148 | 1371 | 1627 | 72.57 | 1.406 | 76.5 | 83.2 |
| | 229.8 | 230.0 | 230.2 | 3.736 | 3.680 | 3.726 | 1190 | 1655 | 62.65 | 1.235 | 77.4 | 80.5 |
| | 229.8 | 229.9 | 230.2 | 3.271 | 3.207 | 3.265 | 991 | 1684 | 51.78 | 1.038 | 78.1 | 76.6 |
| | 229.9 | 229.9 | 230.2 | 2.885 | 2.817 | 2.887 | 808 | 1710 | 41.52 | 0.845 | 78.0 | 70.8 |
| | 229.9 | 229.9 | 230.2 | 2.566 | 2.495 | 2.576 | 648 | 1730 | 32.27 | 0.665 | 76.5 | 63.9 |
| | 229.9 | 229.9 | 230.2 | 2.345 | 2.272 | 2.365 | 515 | 1748 | 24.52 | 0.510 | 73.9 | 55.6 |
| | 229.9 | 229.9 | 230.2 | 2.174 | 2.102 | 2.205 | 400 | 1762 | 17.65 | 0.370 | 69.0 | 46.5 |
| | 229.9 | 229.9 | 230.1 | 2.078 | 2.004 | 2.117 | 302 | 1774 | 11.81 | 0.249 | 61.7 | 36.6 |
| | 229.9 | 229.9 | 230.1 | 2.021 | 1.945 | 2.065 | 238 | 1782 | 8.04 | 0.171 | 53.4 | 29.7 |
| | 230.0 | 229.8 | 230.2 | 2.015 | 1.943 | 2.070 | 178 | 1789 | 4.42 | 0.094 | 39.4 | 22.3 |
| | 230.0 | 229.8 | 230.2 | 1.967 | 1.886 | 2.025 | 135 | 1794 | 1.47 | 0.031 | 17.3 | 17.3 |
| | 230.0 | 229.9 | 230.1 | 1.945 | 1.863 | 2.005 | 112 | 1797 | 0.00 | 0.000 | 0.0 | 14.5 |

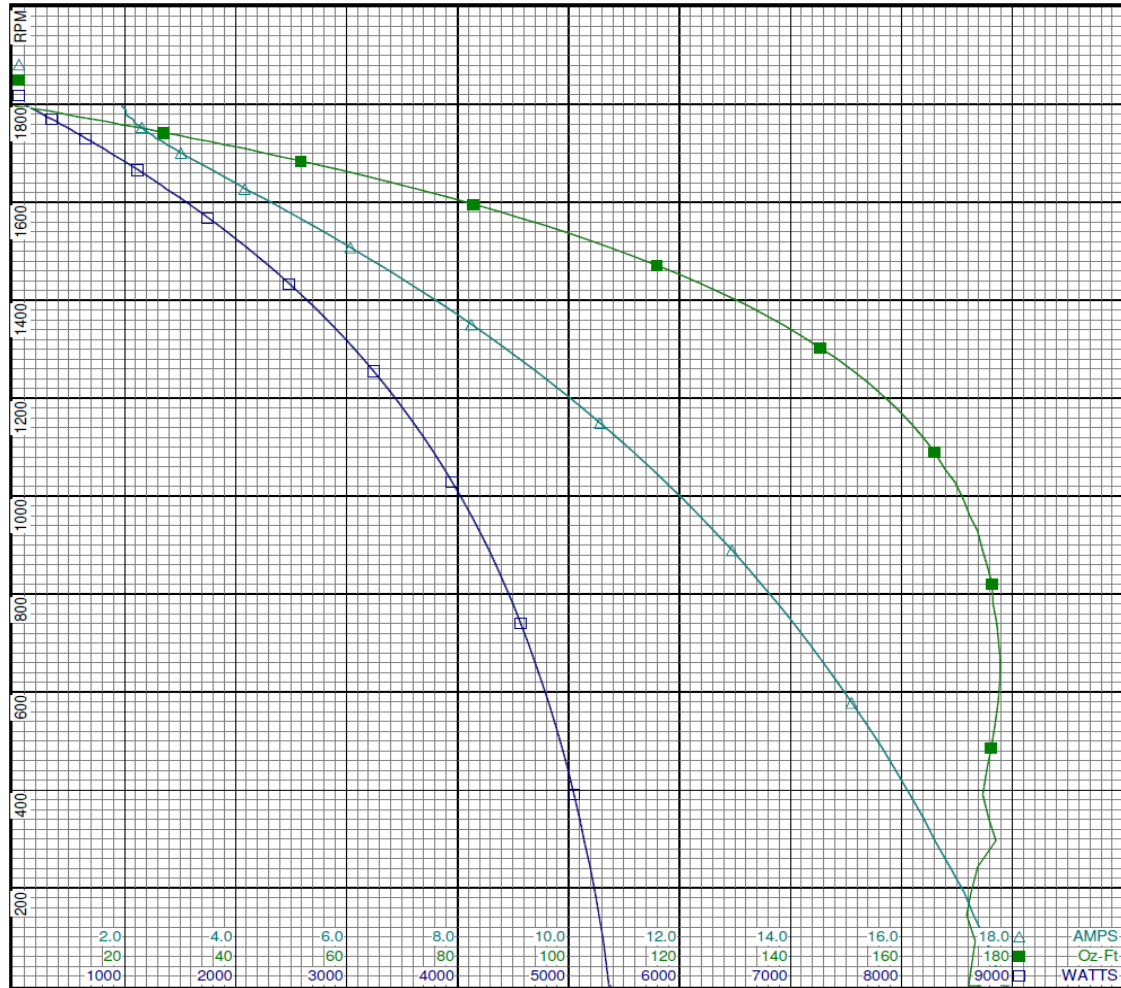
DRAWING NO. PAGE 1 of 2 REV.
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Performance Data



10C899B

REV.
-



Curve Descriptions:
Motor(1) Test 13 Start 230V 60 Hz 4P

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs Ia

Motor Ratings:
(1) P055DHK1616 ID: 1 of 1 10C899B

DRAWING NO. PAGE 2 of 2 REV.
10C899B -

Performance Data



10C899B

REV.
-

Dayton Manufacturing Company

Motor Description

Model: P055DHK1616 10C899B
 Motor ID: 1 of 1
 Poles: 4
 Volts: 208-230/460
 Frequency: 60
 HP: 3/4
 Speed: 1725
 Phase: 3
 Protector: -

Test Conditions

Test Type: Run Run Cap: 0
 Test Number: 12 Start Cap: 0µfd
 Poles: 4 Environment: 24.3 Deg C 51 % RH 972 hPa
 Volts: 230 Tested: 4/5/2016 9:19:17 AM
 Hz: 60 Tested By: Navarro, Susana
 Rotation: Gear Ratio: 1:1
 Special Cond: Bearing Friction: -0.20 Oz-Ft
 Speed Conn: Windage Torque: -1.13 Oz-Ft
 TestBoard: CMD InLine Three Phase #2 Fixture #1

| Special Points | Vab(V) | Vbc(V) | Vca(V) | Ia(A) | Ib(A) | Ic(A) | Watts | RPM | Tq(Oz-ft) | HP | Eff(%) | PF(%) |
|--------------------|--------------|--------------|--------------|---------------|---------------|---------------|-------------|-------------|---------------|--------------|-------------|-------------|
| | 229.9 | 230.0 | 230.1 | 1.938 | 1.853 | 1.993 | 106 | 1797 | 0.00 | 0.000 | 0.0 | 13.8 |
| | 229.9 | 230.0 | 230.1 | 1.963 | 1.878 | 2.011 | 133 | 1794 | 1.93 | 0.041 | 23.2 | 17.1 |
| | 229.8 | 230.2 | 230.0 | 2.016 | 1.940 | 2.066 | 181 | 1789 | 4.54 | 0.097 | 39.8 | 22.7 |
| | 229.8 | 230.2 | 230.0 | 2.040 | 1.964 | 2.087 | 223 | 1783 | 7.07 | 0.150 | 50.2 | 27.6 |
| | 229.8 | 230.1 | 230.1 | 2.062 | 1.985 | 2.101 | 289 | 1774 | 11.19 | 0.236 | 61.0 | 35.4 |
| | 229.8 | 230.0 | 230.1 | 2.179 | 2.110 | 2.216 | 374 | 1762 | 16.16 | 0.339 | 67.7 | 43.3 |
| | 229.9 | 229.9 | 230.2 | 2.196 | 2.131 | 2.233 | 382 | 1747 | 16.51 | 0.343 | 67.1 | 43.8 |
| | 229.8 | 230.0 | 230.2 | 2.587 | 2.514 | 2.600 | 641 | 1731 | 32.29 | 0.666 | 77.4 | 62.7 |
| 36.52 OZ-FT | 229.8 | 230.0 | 230.2 | 2.693 | 2.616 | 2.699 | 712 | 1722 | 36.52 | 0.749 | 78.5 | 66.9 |
| 0.75 HP | 229.8 | 230.0 | 230.2 | 2.696 | 2.619 | 2.702 | 713 | 1722 | 36.59 | 0.750 | 78.5 | 67.0 |
| 42 OZ-FT | 229.8 | 230.0 | 230.2 | 2.887 | 2.809 | 2.888 | 808 | 1710 | 42.00 | 0.855 | 78.9 | 70.9 |
| 0.862 HP | 229.8 | 230.0 | 230.2 | 2.897 | 2.819 | 2.897 | 814 | 1709 | 42.36 | 0.862 | 79.0 | 71.2 |
| | 229.8 | 230.0 | 230.2 | 2.901 | 2.822 | 2.901 | 817 | 1709 | 42.51 | 0.865 | 79.0 | 71.3 |
| | 229.8 | 230.0 | 230.2 | 3.292 | 3.213 | 3.285 | 999 | 1685 | 52.91 | 1.061 | 79.3 | 76.8 |
| | 229.9 | 229.9 | 230.2 | 3.821 | 3.746 | 3.807 | 1225 | 1654 | 65.31 | 1.286 | 78.3 | 81.1 |
| | 229.8 | 229.9 | 230.2 | 4.407 | 4.330 | 4.388 | 1465 | 1620 | 78.08 | 1.506 | 76.7 | 84.1 |
| | 229.8 | 229.9 | 230.2 | 5.065 | 4.976 | 5.042 | 1721 | 1582 | 91.00 | 1.714 | 74.3 | 85.9 |
| | 229.8 | 230.0 | 230.2 | 5.748 | 5.673 | 5.723 | 1981 | 1540 | 103.85 | 1.904 | 71.7 | 87.0 |
| | 229.8 | 230.0 | 230.2 | 6.549 | 6.485 | 6.526 | 2272 | 1490 | 117.03 | 2.075 | 68.1 | 87.5 |
| | 229.8 | 230.0 | 230.2 | 7.366 | 7.335 | 7.341 | 2560 | 1436 | 129.29 | 2.210 | 64.4 | 87.5 |
| | 229.8 | 230.0 | 230.2 | 8.259 | 8.196 | 8.234 | 2865 | 1372 | 141.27 | 2.308 | 60.1 | 87.4 |
| | 229.8 | 230.0 | 230.2 | 9.288 | 9.249 | 9.266 | 3200 | 1294 | 152.28 | 2.346 | 54.7 | 86.7 |
| | 229.8 | 230.0 | 230.2 | 10.051 | 9.992 | 10.027 | 3442 | 1229 | 160.63 | 2.350 | 50.9 | 86.2 |
| | 229.8 | 230.0 | 230.2 | 10.917 | 10.862 | 10.892 | 3706 | 1149 | 168.11 | 2.300 | 46.3 | 85.4 |
| BDT OZ-FT | 229.8 | 230.0 | 230.2 | 11.488 | 11.431 | 11.464 | 3873 | 1093 | 172.17 | 2.240 | 43.1 | 84.8 |
| | 229.8 | 230.0 | 230.2 | 11.799 | 11.748 | 11.779 | 3963 | 1060 | 174.07 | 2.197 | 41.4 | 84.5 |
| | 229.8 | 230.1 | 230.2 | 12.686 | 12.642 | 12.668 | 4210 | 960 | 178.54 | 2.041 | 36.2 | 83.5 |
| | 229.8 | 230.1 | 230.1 | 13.520 | 13.476 | 13.504 | 4431 | 855 | 181.16 | 1.845 | 31.1 | 82.4 |
| | 229.8 | 230.1 | 230.1 | 14.324 | 14.284 | 14.303 | 4631 | 741 | 182.28 | 1.609 | 25.9 | 81.3 |
| | 229.8 | 230.1 | 230.1 | 15.066 | 15.024 | 15.036 | 4808 | 622 | 182.53 | 1.352 | 21.0 | 80.2 |
| | 229.8 | 230.1 | 230.1 | 15.769 | 15.721 | 15.742 | 4965 | 493 | 181.32 | 1.064 | 16.0 | 79.2 |
| | 229.8 | 230.1 | 230.1 | 16.471 | 16.428 | 16.446 | 5112 | 346 | 179.65 | 0.740 | 10.8 | 78.0 |
| | 229.8 | 230.1 | 230.1 | 17.051 | 17.024 | 17.029 | 5225 | 199 | 177.10 | 0.419 | 6.0 | 77.0 |

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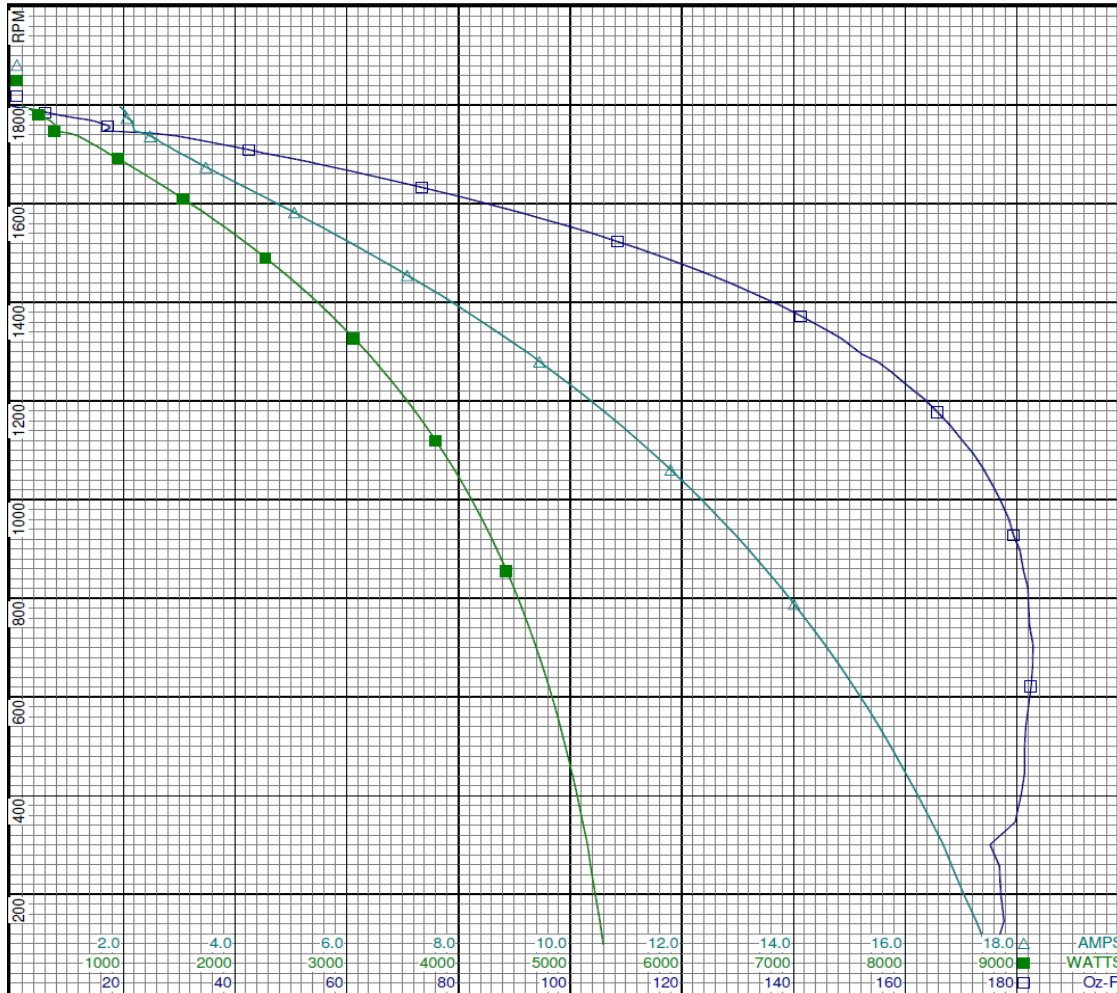
Performance Data



10C899B

REV.

-



Curve Descriptions:

Motor(1) Test 12 Run 230V 60 Hz 4P

- SPEED vs TORQUE
- SPEED vs WATTS
- △ SPEED vs Ia

Motor Ratings:

(1) P055DHK1616 ID: 1 of 1 10C899B

| | | |
|----------------|-------------|------|
| DRAWING NO. | PAGE 2 of 2 | REV. |
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Performance Data



10C899B

REV.

-

Dayton Manufacturing Company

Motor Description

Model: P055DHK1616 10C899B
 Motor ID: 1 of 1
 Poles: 4
 Volts: 208-230/460
 Frequency: 60
 HP: 3/4
 Speed: 1725
 Phase: 3
 Protector: -

Test Conditions

Test Type: Start
 Test Number: 19
 Poles: 4
 Volts: 460
 Hz: 60
 Rotation:
 Special Cond:
 Speed Conn:
 TestBoard: CMD InLine Three Phase #2 Fixture #1
 Run Cap: 0
 Start Cap: 0µfd
 Environment: 25.0 Deg C 53 % RH 966 hPa
 Tested: 4/6/2016 9:06:21 AM
 Tested By: Navarro, Susana
 Gear Ratio: 1:1
 Bearing Friction: -0.24 Oz-Ft
 Windage Torque: -1.17 Oz-Ft

| Special Points | Vab (V) | Vbc (V) | Vca (V) | Ia (A) | Ib (A) | Ic (A) | Watts | RPM | Tq (Oz-ft) | HP | Eff (%) | PF (%) |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|---------------|--------------|-------------|-------------|
| | 459.7 | 459.8 | 460.5 | 9.150 | 9.171 | 9.193 | 5444 | 0 | 173.76 | 0.000 | 0.0 | 74.5 |
| | 459.7 | 459.8 | 460.5 | 8.795 | 8.809 | 8.810 | 5321 | 193 | 173.80 | 0.398 | 5.6 | 75.8 |
| | 459.7 | 459.8 | 460.5 | 8.446 | 8.444 | 8.453 | 5187 | 344 | 176.90 | 0.724 | 10.4 | 77.1 |
| | 459.7 | 459.8 | 460.5 | 8.068 | 8.065 | 8.072 | 5038 | 485 | 178.96 | 1.033 | 15.3 | 78.4 |
| | 459.7 | 459.8 | 460.5 | 7.671 | 7.663 | 7.675 | 4865 | 617 | 180.31 | 1.324 | 20.3 | 79.6 |
| | 459.7 | 459.7 | 460.6 | 7.257 | 7.256 | 7.259 | 4674 | 740 | 180.77 | 1.593 | 25.4 | 80.8 |
| | 459.7 | 459.7 | 460.5 | 6.828 | 6.825 | 6.831 | 4463 | 854 | 179.45 | 1.824 | 30.5 | 82.0 |
| | 459.7 | 459.7 | 460.6 | 6.391 | 6.383 | 6.390 | 4232 | 960 | 176.77 | 2.020 | 35.6 | 83.2 |
| PUT OZ-FT | 459.7 | 459.7 | 460.6 | 5.950 | 5.945 | 5.951 | 3990 | 1055 | 172.31 | 2.164 | 40.5 | 84.2 |
| | 459.7 | 459.7 | 460.6 | 5.950 | 5.945 | 5.951 | 3990 | 1055 | 172.31 | 2.164 | 40.5 | 84.2 |
| | 459.7 | 459.7 | 460.6 | 5.486 | 5.478 | 5.486 | 3721 | 1146 | 166.32 | 2.270 | 45.5 | 85.2 |
| | 459.7 | 459.7 | 460.6 | 5.027 | 5.018 | 5.024 | 3442 | 1229 | 158.92 | 2.325 | 50.4 | 86.0 |
| | 459.7 | 459.7 | 460.6 | 4.575 | 4.564 | 4.572 | 3156 | 1304 | 149.89 | 2.327 | 55.0 | 86.7 |
| | 459.7 | 459.7 | 460.6 | 4.144 | 4.130 | 4.141 | 2873 | 1370 | 139.72 | 2.279 | 59.2 | 87.1 |
| | 459.7 | 459.7 | 460.6 | 3.715 | 3.699 | 3.710 | 2582 | 1432 | 128.54 | 2.191 | 63.3 | 87.4 |
| | 459.7 | 459.7 | 460.5 | 3.293 | 3.275 | 3.287 | 2285 | 1489 | 116.09 | 2.057 | 67.2 | 87.3 |
| | 459.8 | 459.7 | 460.5 | 2.911 | 2.890 | 2.904 | 2008 | 1537 | 103.77 | 1.899 | 70.6 | 86.8 |
| | 459.8 | 459.7 | 460.5 | 2.551 | 2.526 | 2.544 | 1736 | 1582 | 90.70 | 1.708 | 73.4 | 85.8 |
| | 459.8 | 459.7 | 460.5 | 2.228 | 2.200 | 2.221 | 1484 | 1620 | 78.10 | 1.506 | 75.7 | 84.1 |
| | 459.8 | 459.7 | 460.5 | 1.930 | 1.912 | 1.926 | 1241 | 1655 | 65.31 | 1.287 | 77.4 | 81.0 |
| | 459.8 | 459.7 | 460.5 | 1.693 | 1.669 | 1.691 | 1039 | 1683 | 54.38 | 1.090 | 78.2 | 77.4 |
| | 459.9 | 459.6 | 460.5 | 1.484 | 1.458 | 1.486 | 844 | 1709 | 43.48 | 0.885 | 78.2 | 71.8 |
| | 459.8 | 459.7 | 460.5 | 1.313 | 1.283 | 1.318 | 680 | 1730 | 34.06 | 0.701 | 77.0 | 65.4 |
| | 459.9 | 459.6 | 460.5 | 1.202 | 1.172 | 1.212 | 544 | 1747 | 26.13 | 0.543 | 74.5 | 57.1 |
| | 459.9 | 459.6 | 460.5 | 1.108 | 1.077 | 1.123 | 422 | 1762 | 18.89 | 0.396 | 70.1 | 48.0 |
| | 459.9 | 459.7 | 460.4 | 1.041 | 1.009 | 1.061 | 316 | 1774 | 12.51 | 0.264 | 62.5 | 38.2 |
| | 459.9 | 459.6 | 460.5 | 1.027 | 0.996 | 1.050 | 249 | 1782 | 8.51 | 0.181 | 54.1 | 30.5 |
| | 460.0 | 459.5 | 460.5 | 1.001 | 0.966 | 1.027 | 181 | 1789 | 4.46 | 0.095 | 39.2 | 22.8 |
| | 459.9 | 459.6 | 460.4 | 0.978 | 0.939 | 1.004 | 141 | 1794 | 1.69 | 0.036 | 19.1 | 18.2 |
| | 459.8 | 460.0 | 460.3 | 0.969 | 0.929 | 0.996 | 115 | 1797 | 0.00 | 0.000 | 0.0 | 14.9 |

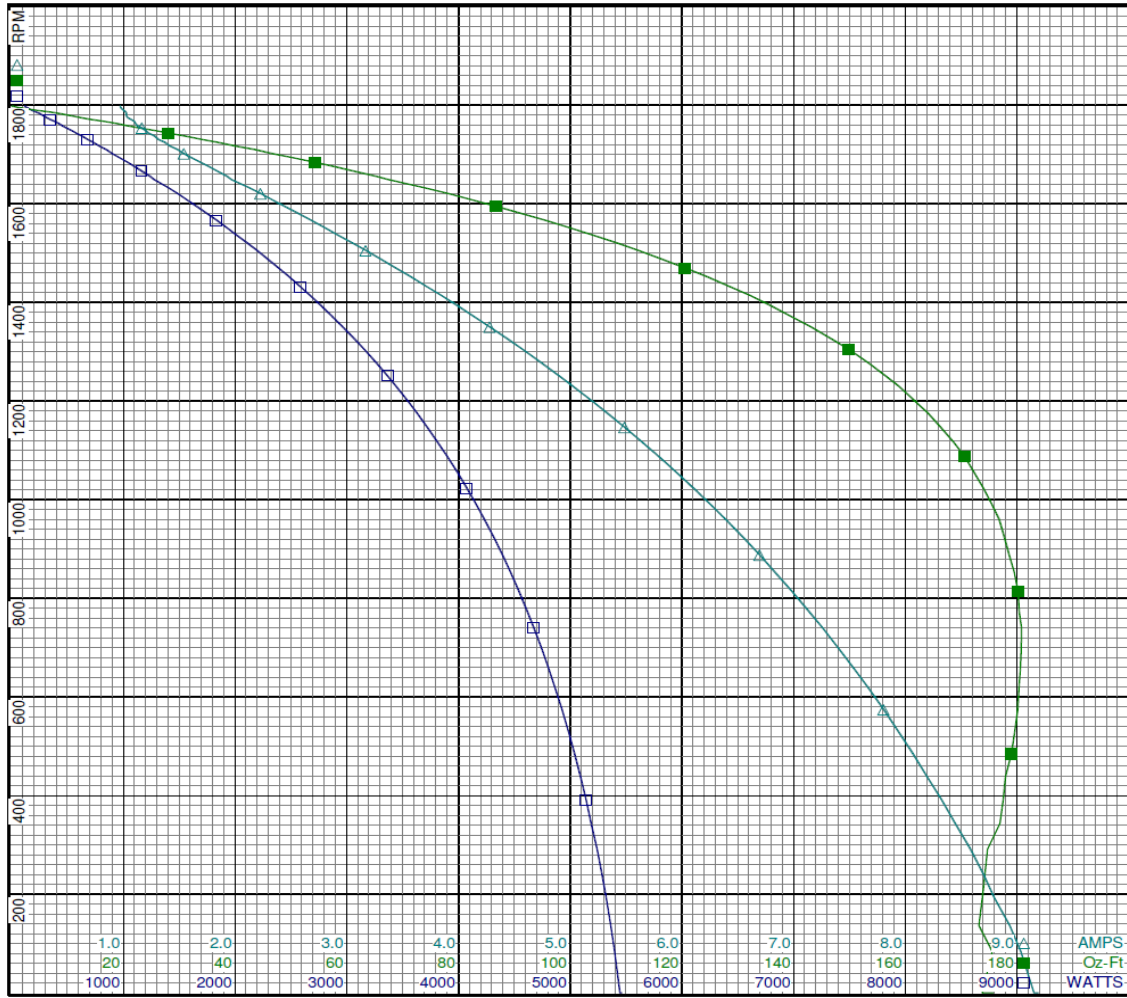
DRAWING NO. PAGE 1 of 2 REV.
10C899B -

Performance Data



10C899B

REV.
-



Curve Descriptions:
Motor(1) Test 19 Start 460V 60 Hz 4P

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs Ia

Motor Ratings:
(1) P055DHK1616 ID: 1 of 1 10C899B

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10C899B -

Performance Data



10C899B

REV.

-

Dayton Manufacturing Company

Motor Description

Model: P055DHK1616 10C899B
 Motor ID: 1 of 1
 Poles: 4
 Volts: 208-230/460
 Frequency: 60
 HP: 3/4
 Speed: 1725
 Phase: 3
 Protector: -

Test Conditions

Test Type: Run Run Cap: 0
 Test Number: 18 Start Cap: 0µfd
 Poles: 4 Environment: 25.0 Deg C 53 % RH 966 hPa
 Volts: 460 Tested: 4/6/2016 9:04:58 AM
 Hz: 60 Tested By: Navarro, Susana
 Rotation: Gear Ratio: 1:1
 Special Cond: Bearing Friction: -0.27 Oz-Ft
 Speed Conn: Windage Torque: -1.29 Oz-Ft
 TestBoard: CMD InLine Three Phase #2 Fixture #1

| Special Points | Vab (V) | Vbc (V) | Vca (V) | Ia (A) | Ib (A) | Ic (A) | Watts | RPM | Tq (Oz-ft) | HP | Eff (%) | PF (%) |
|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|---------------|--------------|-------------|-------------|
| | 459.9 | 459.9 | 460.2 | 0.972 | 0.929 | 0.997 | 108 | 1795 | 0.00 | 0.000 | 0.0 | 14.0 |
| | 459.7 | 460.3 | 460.0 | 0.982 | 0.939 | 1.002 | 156 | 1791 | 3.06 | 0.065 | 31.2 | 20.1 |
| | 459.7 | 460.2 | 460.1 | 1.014 | 0.974 | 1.032 | 223 | 1785 | 6.68 | 0.142 | 47.5 | 27.8 |
| | 459.7 | 460.1 | 460.1 | 1.050 | 1.015 | 1.070 | 277 | 1777 | 10.22 | 0.216 | 58.2 | 33.3 |
| | 459.8 | 460.0 | 460.2 | 1.083 | 1.047 | 1.097 | 371 | 1767 | 15.95 | 0.335 | 67.5 | 43.3 |
| | 459.8 | 460.0 | 460.2 | 1.152 | 1.115 | 1.161 | 480 | 1753 | 22.47 | 0.469 | 72.8 | 52.7 |
| | 459.9 | 459.7 | 460.4 | 1.179 | 1.145 | 1.188 | 510 | 1736 | 24.02 | 0.496 | 72.6 | 54.7 |
| 36.52 OZ-FT | 459.7 | 460.0 | 460.3 | 1.363 | 1.326 | 1.365 | 714 | 1723 | 36.52 | 0.749 | 78.2 | 66.2 |
| 0.75 HP | 459.7 | 460.0 | 460.3 | 1.364 | 1.327 | 1.366 | 714 | 1723 | 36.56 | 0.750 | 78.3 | 66.2 |
| | 459.7 | 459.9 | 460.3 | 1.419 | 1.381 | 1.418 | 781 | 1717 | 40.41 | 0.826 | 78.9 | 69.7 |
| 42 OZ-FT | 459.8 | 459.9 | 460.3 | 1.451 | 1.414 | 1.450 | 809 | 1714 | 42.00 | 0.857 | 79.0 | 70.6 |
| 0.862 HP | 459.8 | 459.9 | 460.3 | 1.457 | 1.420 | 1.455 | 814 | 1713 | 42.27 | 0.862 | 79.0 | 70.8 |
| | 459.8 | 459.9 | 460.4 | 1.630 | 1.593 | 1.625 | 982 | 1692 | 51.75 | 1.042 | 79.2 | 76.2 |
| | 459.8 | 459.8 | 460.4 | 1.884 | 1.848 | 1.876 | 1198 | 1664 | 63.80 | 1.264 | 78.7 | 80.5 |
| | 459.8 | 459.8 | 460.4 | 2.164 | 2.129 | 2.154 | 1430 | 1633 | 76.29 | 1.483 | 77.4 | 83.5 |
| | 459.8 | 459.8 | 460.5 | 2.496 | 2.463 | 2.486 | 1691 | 1596 | 89.71 | 1.704 | 75.2 | 85.6 |
| | 459.7 | 459.8 | 460.5 | 2.863 | 2.832 | 2.852 | 1971 | 1554 | 103.47 | 1.914 | 72.4 | 86.8 |
| | 459.7 | 459.8 | 460.5 | 3.273 | 3.245 | 3.261 | 2268 | 1506 | 117.12 | 2.099 | 69.1 | 87.3 |
| | 459.7 | 459.8 | 460.5 | 3.692 | 3.665 | 3.681 | 2565 | 1452 | 130.01 | 2.248 | 65.4 | 87.5 |
| | 459.7 | 459.8 | 460.5 | 4.133 | 4.108 | 4.123 | 2865 | 1393 | 141.99 | 2.355 | 61.3 | 87.2 |
| | 459.7 | 459.8 | 460.5 | 4.585 | 4.560 | 4.575 | 3161 | 1328 | 152.82 | 2.416 | 57.0 | 86.8 |
| | 459.7 | 459.8 | 460.5 | 5.035 | 5.016 | 5.028 | 3446 | 1256 | 162.15 | 2.425 | 52.5 | 86.1 |
| | 459.6 | 459.8 | 460.5 | 5.482 | 5.464 | 5.475 | 3717 | 1179 | 169.79 | 2.384 | 47.8 | 85.2 |
| BDT OZ-FT | 459.7 | 459.8 | 460.5 | 5.946 | 5.930 | 5.939 | 3986 | 1091 | 176.17 | 2.288 | 42.8 | 84.2 |
| | 459.7 | 459.8 | 460.5 | 5.946 | 5.930 | 5.939 | 3986 | 1091 | 176.17 | 2.288 | 42.8 | 84.2 |
| | 459.7 | 459.8 | 460.5 | 6.391 | 6.376 | 6.381 | 4231 | 997 | 180.91 | 2.146 | 37.8 | 83.2 |
| | 459.6 | 459.8 | 460.5 | 6.819 | 6.804 | 6.814 | 4457 | 894 | 183.94 | 1.958 | 32.8 | 82.1 |
| | 459.6 | 459.8 | 460.5 | 7.231 | 7.220 | 7.225 | 4662 | 783 | 185.29 | 1.727 | 27.6 | 81.0 |
| | 459.6 | 459.8 | 460.5 | 7.612 | 7.606 | 7.603 | 4840 | 666 | 185.44 | 1.471 | 22.7 | 79.9 |
| | 459.7 | 459.8 | 460.5 | 7.978 | 7.975 | 7.973 | 5002 | 538 | 183.97 | 1.179 | 17.6 | 78.7 |
| | 459.6 | 459.8 | 460.5 | 8.329 | 8.323 | 8.322 | 5146 | 399 | 182.14 | 0.864 | 12.5 | 77.6 |
| | 459.6 | 459.8 | 460.5 | 8.632 | 8.645 | 8.633 | 5261 | 251 | 179.20 | 0.536 | 7.6 | 76.4 |
| | 459.6 | 459.8 | 460.5 | 8.943 | 8.937 | 8.939 | 5370 | 91 | 177.76 | 0.193 | 2.7 | 75.4 |

DRAWING NO. PAGE 2 of 2 REV.
10C899B -

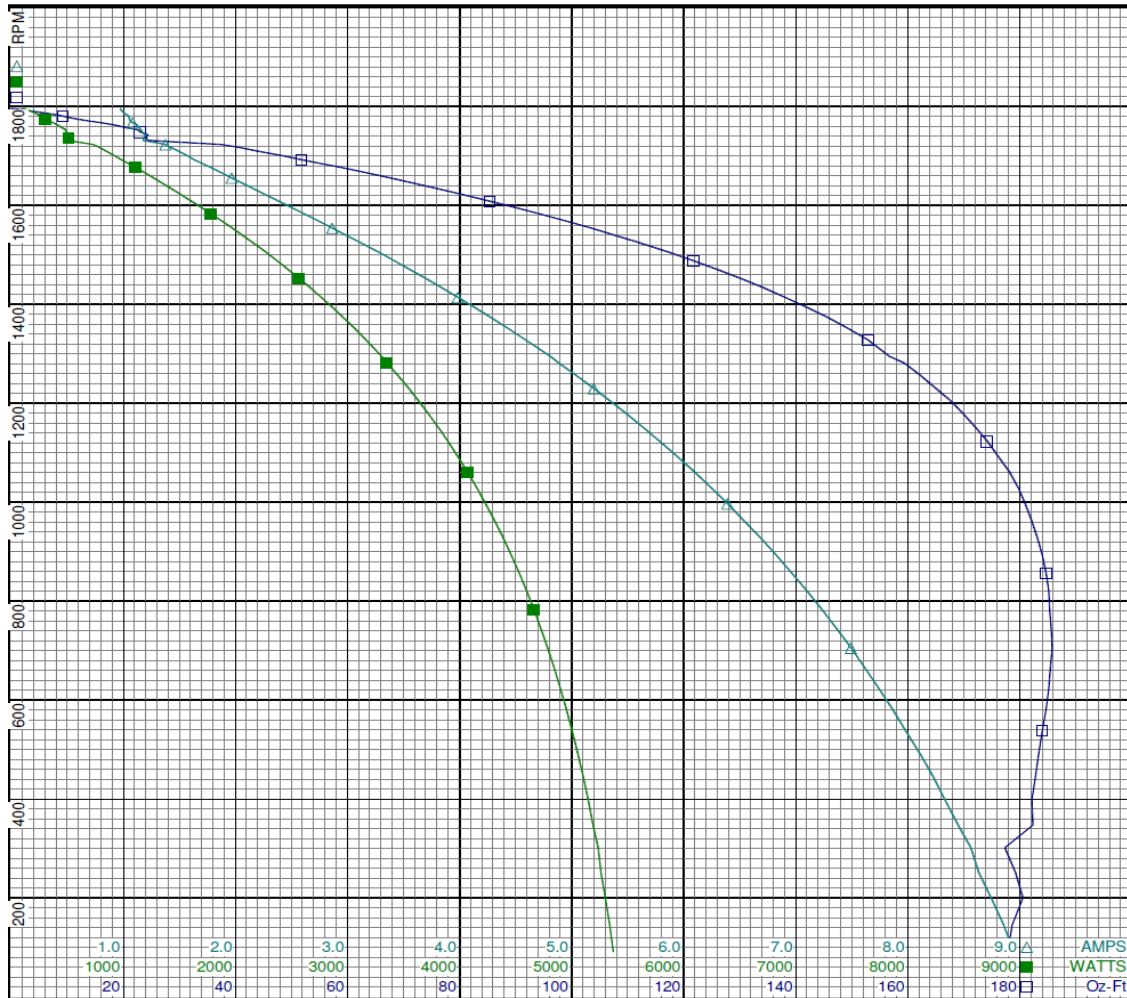
Performance Data



10C899B

REV.

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Curve Descriptions:
 Motor(1) Test 18 Run 460V 60 Hz 4P

- SPEED vs TORQUE
- SPEED vs WATTS
- △ SPEED vs Ia

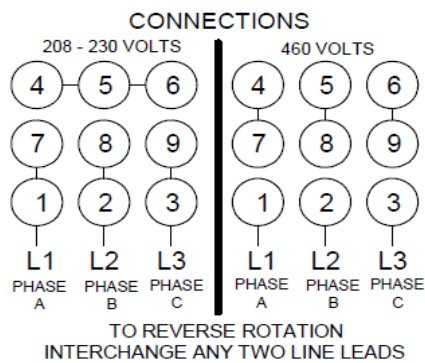
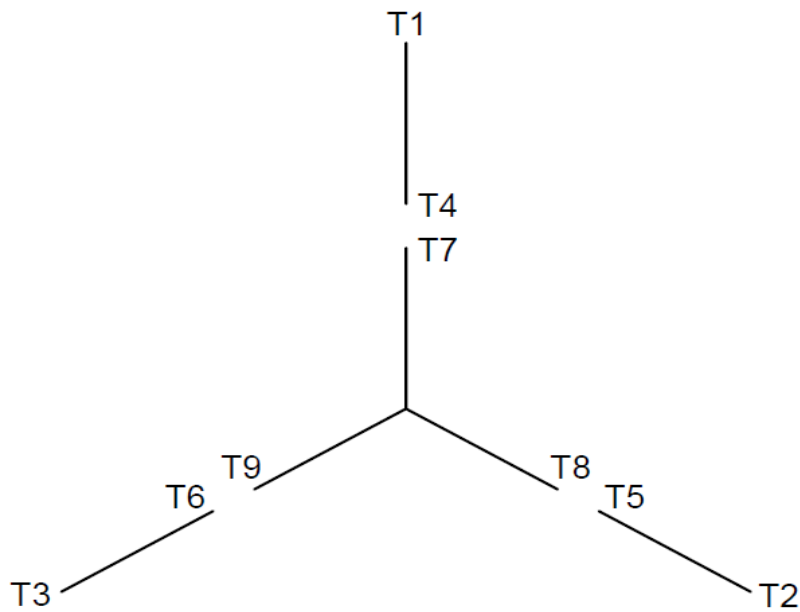
Motor Ratings:
 (1) P055DHK1616 ID: 1 of 1 10C899B

| | | |
|-------------|----------------|------|
| DRAWING NO. | PAGE 2 of 2 | REV. |
| | 10C899B | - |

10C899B

REV.
0

Motor Wiring Diagram 9 Lead, Dual Voltage (WYE Conn.)



DRAWING NO. PAGE 1 of 1 REV.
10C899B 0

Dayton®**INDUSTRIAL MOTOR**

HP: 3/4

VOLTS: 208-230/460

AMPS: 2.8-2.8/1.5

RPM: 1725 & 1425

DUTY: CONT

SF: 1.0

KVA CODE: F

ENCL: TEFC

THERMALLY PROTECTED: NONE

MFG. NO. PROT. CODE:

MTR REF: P55DHK-1616

190/380V, 50 HZ, AMPS 3.1/1.6

[BAR CODE]

Part No 10C899B

PH: 3

HZ: 60&50

FR: 48

INS CL: B

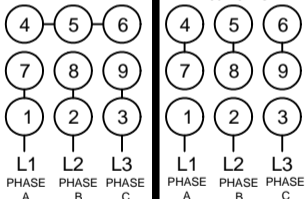
AMB: 40 °C

SFA: 2.8-2.8/1.5

AVG. F.L.
EFF. 74.0**Disconnect Power Before Making Any
Electrical Connections or Changes****CONNECTIONS**

208 - 230 VOLTS

460 VOLTS

TO REVERSE ROTATION
INTERCHANGE ANY TWO LINE LEADS

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

[Made in Mexico]