

PRODUCT INFORMATION PACKET



Model No: 120274.00

Catalog No: 120274.00

General Purpose Motor, 2 HP, 1 Ph, 60 Hz, 115/230 V, 1800 RPM, 145TC Frame, TEFC

Operational at 115/208-230 V @60HZ



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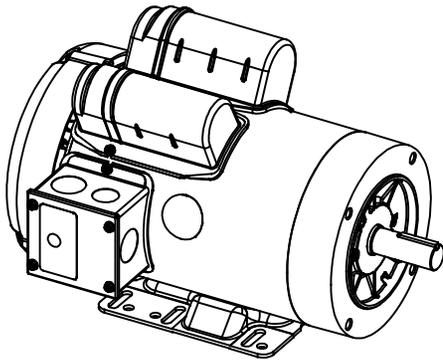
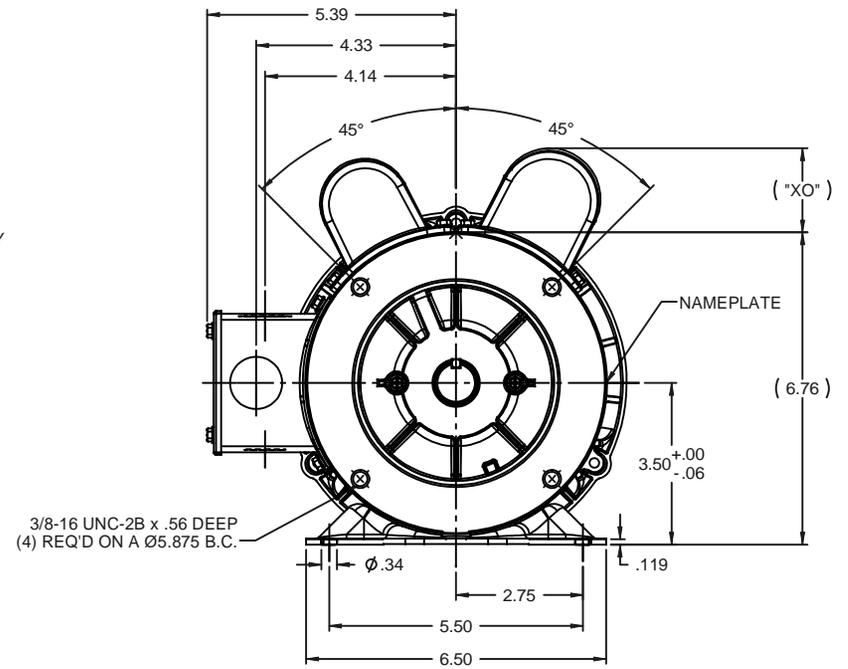
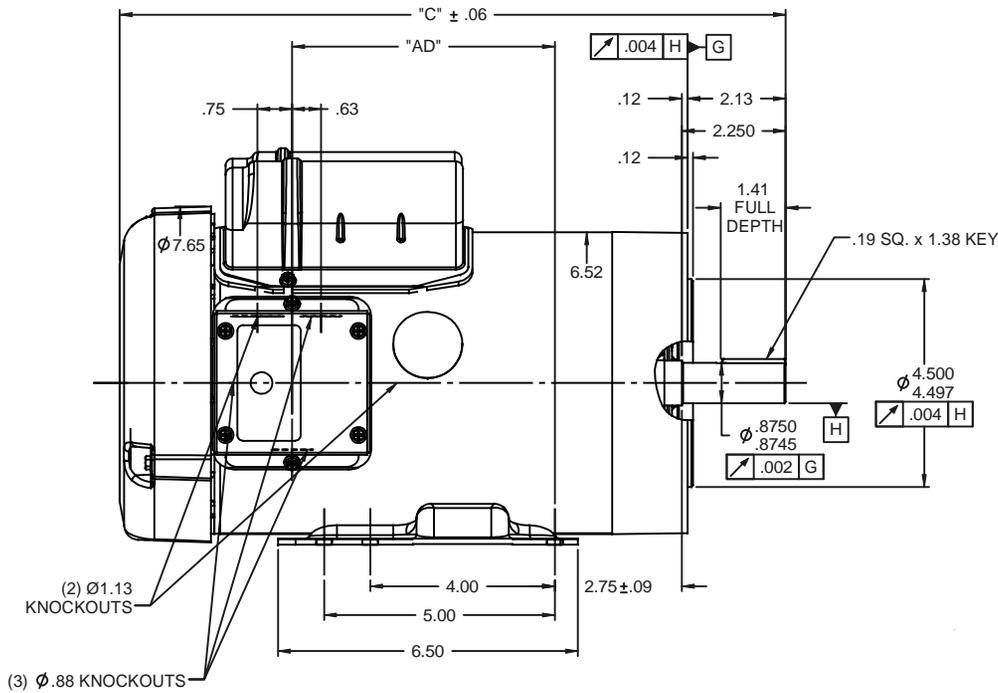


Nameplate Specifications

| | | | |
|------------------------|---------------|----------------------------|-----------------------------|
| Phase | 1 | Output HP | 2 Hp |
| Output KW | 1.5 kW | Voltage | 115/230 V |
| Speed | 1740 rpm | Service Factor | 1.0 |
| Frame | 145TC | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 82 % |
| Ambient Temperature | 40 °C | Frequency | 60 Hz |
| Current | 18.4/9.2 A | Power Factor | 86 |
| Duty | Continuous | Insulation Class | B |
| Design Code | L | KVA Code | H |
| Drive End Bearing Size | 6205 | Opp Drive End Bearing Size | 6203 |
| UL | Recognized | CSA | Y |
| CE | N | IP Code | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------------|-----------------------|----------------------------|
| Electrical Type | Capacitor Start Capacitor Run | Starting Method | Across The Line |
| Poles | 4 | Rotation | Selective Counterclockwise |
| Resistance Main | 0 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | T | Overall Length | 14.43 in |
| Frame Length | 8.50 in | Shaft Diameter | 0.875 in |
| Shaft Extension | 2.25 in | Assembly/Box Mounting | F1 ONLY |
| Connection Drawing | 005054.01 | Outline Drawing | 028800-850B |



| DASH NO. | "C" | "AD" | CAP DASH | "XO" |
|----------|-------|------|----------|------|
| 700 | 12.93 | 4.19 | A | 1.15 |
| 750 | 13.43 | 4.69 | B | 1.60 |
| 800 | 13.93 | 5.19 | C | 1.82 |
| 850 | 14.43 | 5.69 | | |

NOTE:
1) GASKETS THROUGHOUT

| TOLERANCES UNLESS SPECIFIED | | TITLE | DRAWN | SCALE |
|-----------------------------|------------------------|--|-------------------|------------|
| DEC | INCHES | | | |
| x | ±.1 | OUTLINE - 145TC FRAME TEFC - RIGID "C" FACE | CHK | 3:8 |
| .xx | ±.03 | | APPR | OL120274 |
| .xxx | ±.005 | | REF | 120274.00 |
| .xxx | ±.0005 | MAT'L | FMF | OF |
| NO | REVISION | BY & DATE | CHK ANG ±1/2° | PAGE |
| | THIRD ANGLE PROJECTION | | RFP | OF |
| | | | FINISH | REV |
| | | | PREV | |
| | | | NETWORK FILE NAME | |
| | | | SIZE | DRAWING NO |
| | | | B | 028800 |



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

DRAWN KMM 09/27/07

CHK

APPR

SCALE 3:8

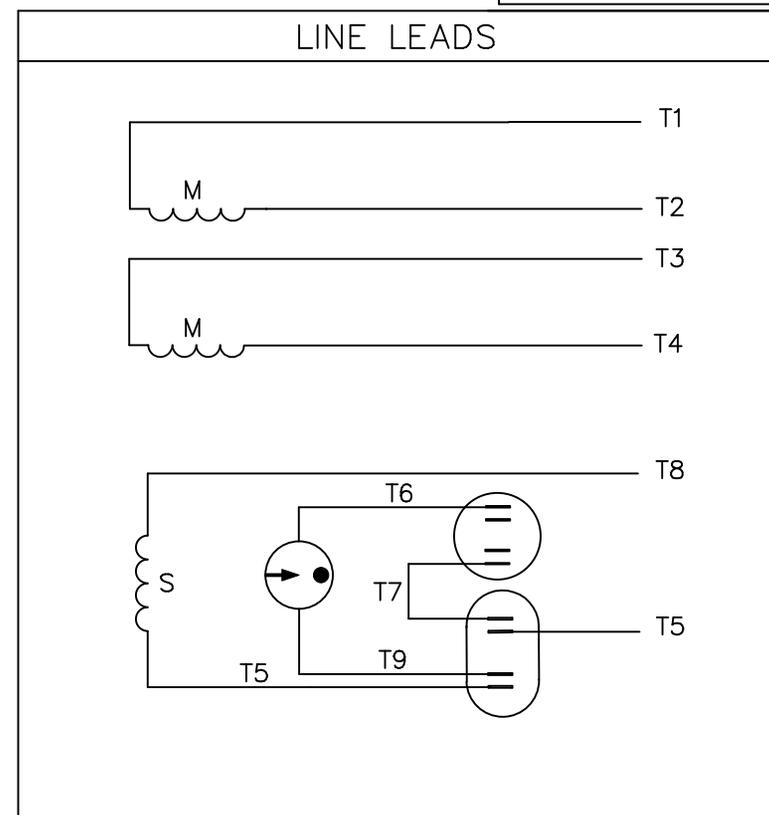
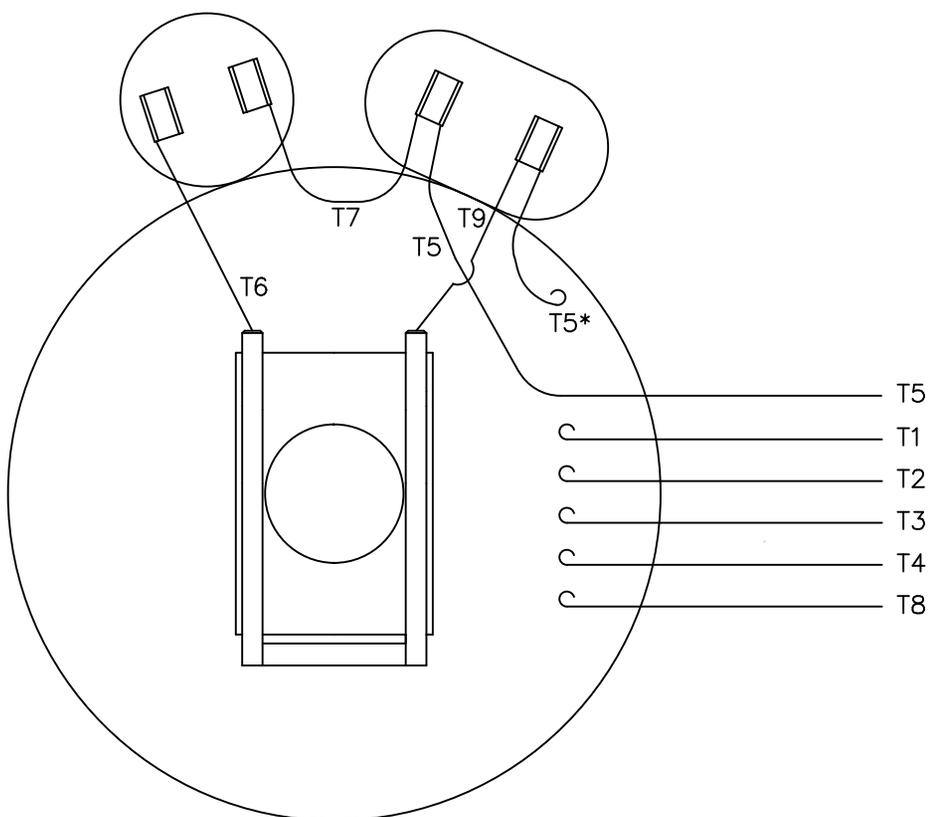
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FMF 120274.00

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REV

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



| | ROTATION FACING LEAD END | L1 | L2 | JOIN |
|--------------|--------------------------------|-------------|-------------|-------------|
| HIGH VOLT | C.C.W. | T1 | T4 T5 | T2,T3 T8 |
| | C.W. | T1 | T4 T8 | T2,T3 T5 |
| LOW VOLT | C.C.W. | T1 T3,T8 | T2,T4 T5 | |
| | C.W. | T1,T3 T5 | T2,T4 T8 | |

* THIS LEAD MAY BE WHITE

| | | TOLERANCES UNLESS SPECIFIED | | LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES | | DRAWN JRW 09/27/74 | |
|--|-----------------------------------|--------------------------------|----------|--|--------------|--------------------|----------|
| | | DEC. | INCHES | | | CHK | TEM |
| | | .X | ±.1 | | | APPD | 10/11/74 |
| 11 | ALTERNATE T5 LEAD MARKING WAS RED | RLW | 8/6/02 | .XX | ±.01 | SCALE | 1=1 |
| 10 | ADDED ALTERNATE T5 LEAD MARKING | RLW | 6/5/02 | KH | .XXX ±.005 | REF | A-005053 |
| 09 | REDRAWN TO CAD | DBT | 05/28/97 | | .XXXX ±.0005 | FMF | W-K6343 |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2' | PREV | |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT | | RFP | CAD FILE | 00505401 | SIZE | DRAWING NO. | REV. |
| | | DIST | BRF-NLV | | A | 005054-01 | 11 |



CERTIFICATION DATA SHEET

**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CONN. DIAGRAM: 005054.01

CATALOG #: 120274.00

OUTLINE: 028800-850B

MOUNTING: F1 ONLY

WINDING #: K634271 FR 3 A

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|--------|
| 2 | 1.49 | 1800 | 1740 | 145TC | TEFC | H | L |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|----|----|-------------|----------|-----------------|------------|------|------|-------|
| 1 | 60 | 115/208-230 | 18.4/9.2 | ACROSS THE LINE | CONTINUOUS | B4 | 1.0 | 40 |

| FULL LOAD EFF: | 82 | 3/4 LOAD EFF: | 75.2 | 1/2 LOAD EFF: | 69 | GTD. EFF | | ELEC. TYPE | |
|----------------|----|---------------|------|---------------|------|----------|--|-------------------|--|
| FULL LOAD PF: | 86 | 3/4 LOAD PF: | 79.4 | 1/2 LOAD PF: | 70.3 | 78.5 | | CAP START CAP RUN | |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|------------------|------------------|-------------|
| 5.99 LB-FT | 133 / 66.5 | 16.2 LB-FT 271 % | 15.4 LB-FT 258 % | 96.9 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|--------------|-----------|-----------------|---------------|-------------------|
| 56 dBA | 66 dBA | 0.15 LB-FT^2 | 0 LB-FT^2 | 10 SEC. | 0 | 46 LBS. |

***** SUPPLEMENTAL INFORMATION *****

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|------------------------|
| C-FACE | STANDARD | RIGID | HORIZONTAL | FALSE | NONE | FALSE | NONE | BLUE - LEESON (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|--------------------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | POLYREX EM | T | NONE | NONE | 1144 STRESSPROOF (C-223) | ROLLED STEEL |
| 6205 | 6203 | | | | | | |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------------|------------|----------|----------|-------------|---------|---------------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

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| |
|----------------------------------|
| INVERTER TORQUE: NONE |
| INV. HP SPEED RANGE: NONE |
| ENCODER: NONE |
| NONE NONE |
| NONE NONE PPR |
| BRAKE: NONE NONE |
| NONE P/N NONE |
| NONE NONE |
| NONE FT-LB NONE V NONE HZ |



LEESON ELECTRIC CORPORATION
 TYPICAL PERFORMANCE CURVE for AC MOTOR

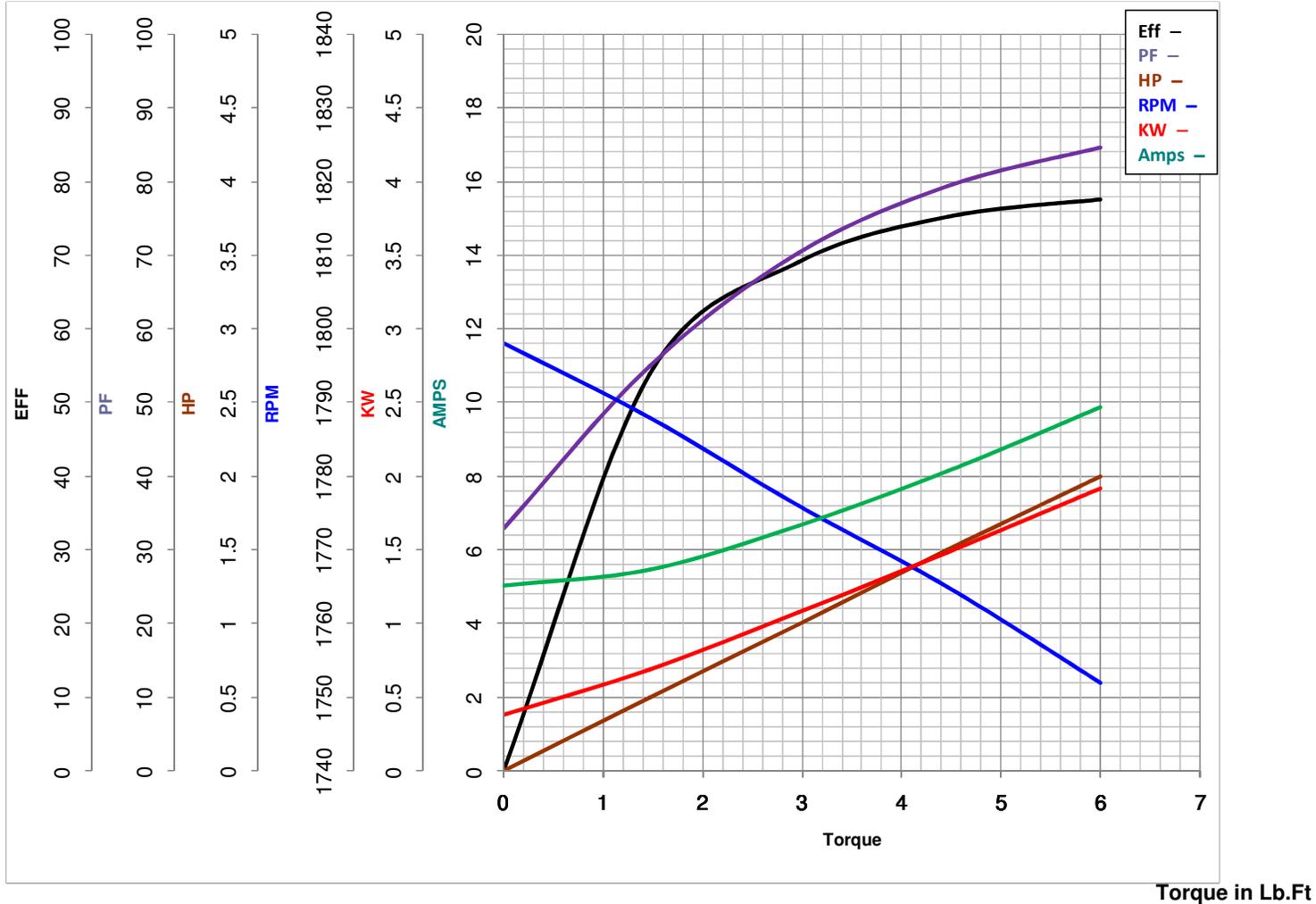
Curve at 230 Volts HP 2.00 PHASE 1
60 HZ
2 HP VOLTS 115/208-230

Model No 120274.00

Catalog No 120274.00

HZ 60

RPM 1740



| | | | | | |
|-----------|-------------|-------|-----------|-----------------|-------|
| FL TORQUE | <u>5.99</u> | Lb.Ft | FL AMPS | <u>18.4/9.2</u> | |
| BD TORQUE | <u>15.4</u> | Lb.Ft | PU TORQUE | <u>8.9</u> | Lb.Ft |
| LR TORQUE | <u>16.2</u> | Lb.Ft | LR AMPS | <u>66.5</u> | |
| WINDING | K634271-3 | | Date | 4/23/2018 | |