

# PRODUCT INFORMATION PACKET



Model No: 110086.00  
Catalog No: 110086.00  
Agricultural Motor, 0.50 HP, 1 Ph, 60 Hz, 115/230 V, 1800 RPM, 56 Frame, TEFC

**Operational at 115/208-230 V @60HZ**



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## Nameplate Specifications

|                        |            |                            |                             |
|------------------------|------------|----------------------------|-----------------------------|
| Phase                  | 1          | Output HP                  | 0.50 Hp                     |
| Output KW              | 0.37 kW    | Voltage                    | 115/230 V                   |
| Speed                  | 1725 rpm   | Service Factor             | 1.15                        |
| Frame                  | 56         | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | Manual     | Efficiency                 | 66 %                        |
| Ambient Temperature    | 40 °C      | Frequency                  | 60 Hz                       |
| Current                | 8.8/4.4 A  | Power Factor               | 58                          |
| Duty                   | Continuous | Insulation Class           | B                           |
| Design Code            | L          | KVA Code                   | L                           |
| Drive End Bearing Size | 6203       | Opp Drive End Bearing Size | 6203                        |
| UL                     | Recognized | CSA                        | Y                           |
| CE                     | N          | IP Code                    | 54                          |
| Number of Speeds       | 1          |                            |                             |

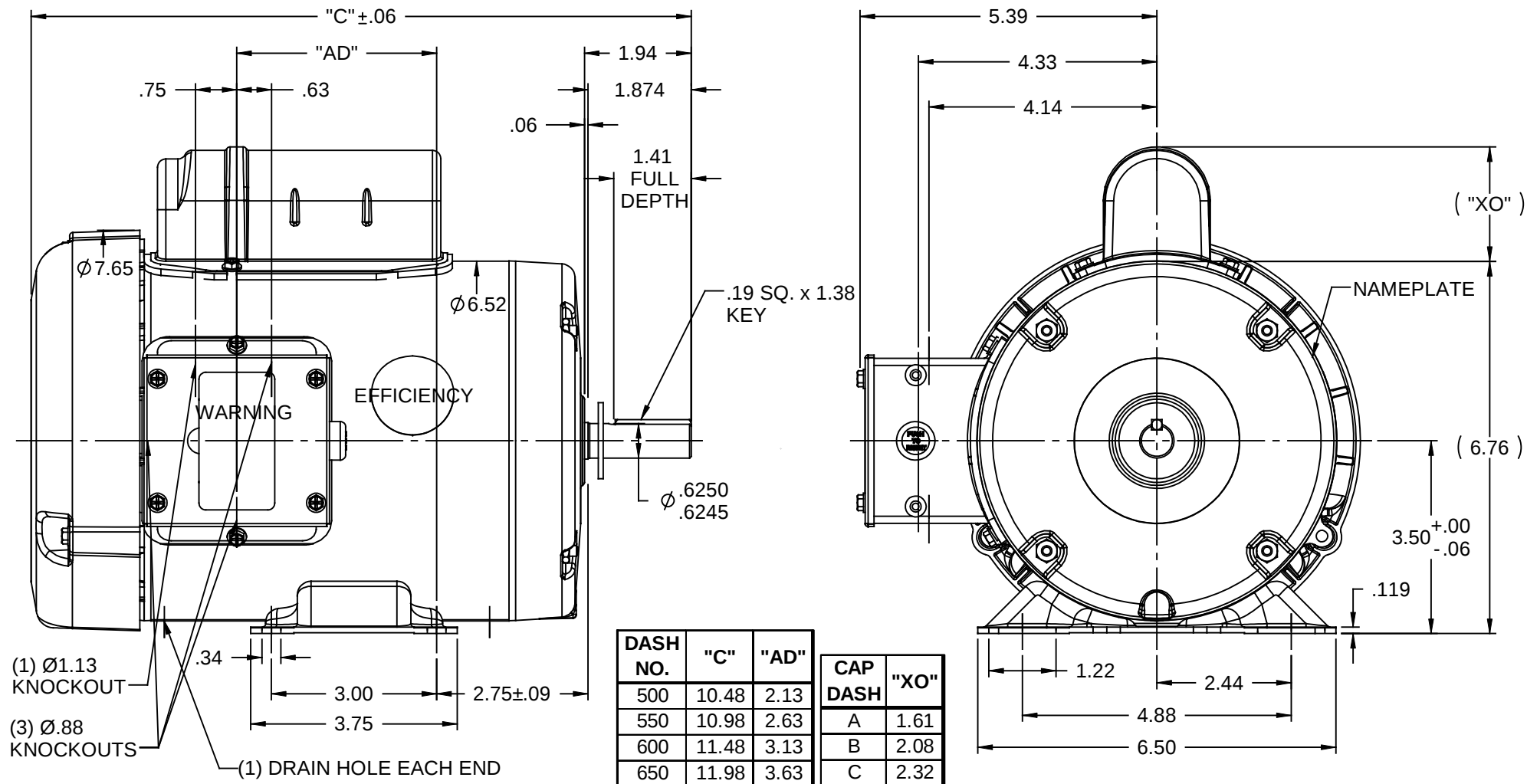
## Technical Specifications

|                       |                               |                       |                            |
|-----------------------|-------------------------------|-----------------------|----------------------------|
| Electrical Type       | Capacitor Start Induction Run | Starting Method       | Across The Line            |
| Poles                 | 4                             | Rotation              | Selective Counterclockwise |
| Resistance Main       | 3.4 Ohms                      | Mounting              | Rigid Base                 |
| Motor Orientation     | Horizontal                    | Drive End Bearing     | Ball                       |
| Opp Drive End Bearing | Ball                          | Frame Material        | Rolled Steel               |
| Shaft Type            | NEMA 56                       | Overall Length        | 10.48 in                   |
| Frame Length          | 5.50 in                       | Shaft Diameter        | 0.625 in                   |
| Shaft Extension       | 1.88 in                       | Assembly/Box Mounting | F1 ONLY                    |
| Outline Drawing       | 028774-550A                   | Connection Drawing    | 005003.03                  |

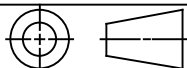
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## NOTES:

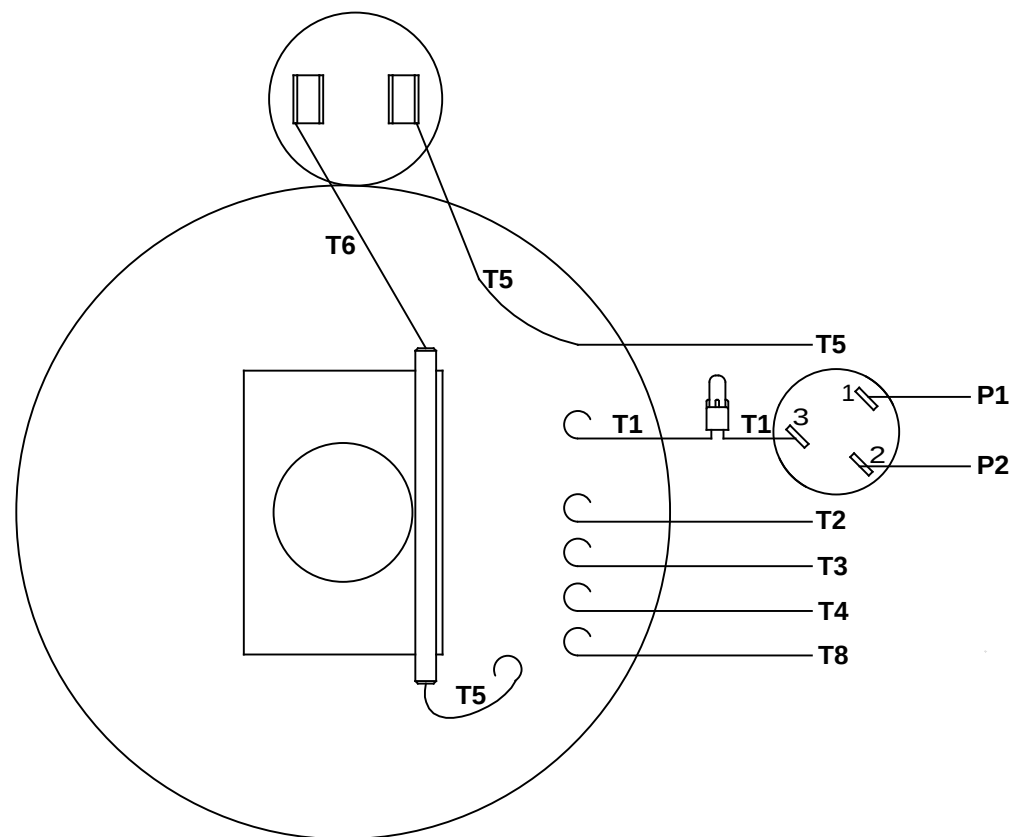
- 1) MANUAL OVERLOAD PROTECTOR.
- 2) FLINGER ON SHAFT.
- 3) GASKETS THROUGHOUT.
- 4) DRAIN HOLE IN FRAME (BOTH ENDS).



|    |                                       |            |                                |              |                                                                                                                                            |                    |  |
|----|---------------------------------------|------------|--------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--|
|    |                                       |            | TOLERANCES<br>UNLESS SPECIFIED |              |  <b>ELECTRIC MOTORS<br/>GEARMOTORS<br/>AND DRIVES</b> | DRAWN KMM 08/09/07 |  |
|    |                                       |            | DEC                            | INCHES       |                                                                                                                                            | CHK                |  |
|    |                                       |            | .X                             | ±.1          |                                                                                                                                            | APPR               |  |
|    |                                       |            | .XX                            | ±.03         |                                                                                                                                            | SCALE 3:8          |  |
|    |                                       |            | .XXX                           | ±.005        |                                                                                                                                            | REF 032507         |  |
| 01 | ADD DRAIN HOLE NOTE PER ISAAC 08-1915 | LST 5/7/08 | XX                             | .XXXX ±.0005 | MAT'L                                                                                                                                      | FMF 110088.00      |  |
| NO | REVISION                              | BY & DATE  | CHK                            | ANG ±1/2°    | FINISH GENERAL PURPOSE                                                                                                                     | PAGE OF            |  |
|    |                                       |            | RFP                            | PREV         | SIZE A                                                                                                                                     | DRAWING NO 028774  |  |
|    |                                       |            | NETWORK FILE NAME              |              |                                                                                                                                            | REV 01             |  |

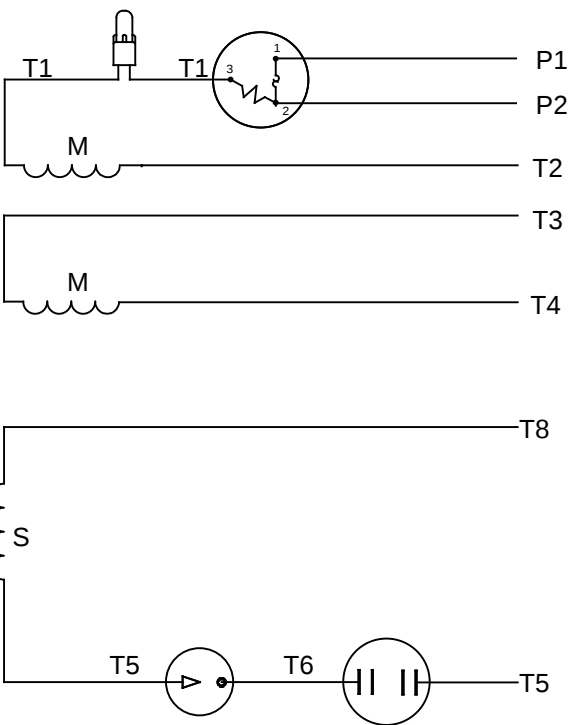
THIRD ANGLE  
PROJECTION

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END



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LINE LEADS



|              | ROTATION<br>FACING<br>LEAD END | L1 | L2          | JOIN        | INSULATE<br>SEPARATELY |
|--------------|--------------------------------|----|-------------|-------------|------------------------|
| HIGH<br>VOLT | C.C.W.                         | P1 | T4<br>T5    | T2,T3<br>T8 | P2                     |
|              | C.W.                           | P1 | T4<br>T8    | T2,T3<br>T5 | P2                     |
| LOW<br>VOLT  | C.C.W.                         | P1 | T2,T4<br>T5 | P2,T3<br>T8 | ---                    |
|              | C.W.                           | P1 | T2,T4<br>T8 | P2,T3<br>T5 | ---                    |

|    |                       | TOLERANCES<br>UNLESS SPECIFIED |           |                   |        |
|----|-----------------------|--------------------------------|-----------|-------------------|--------|
|    |                       | DEC                            | INCHES    |                   |        |
|    |                       | .X                             | ±.1       |                   |        |
|    |                       | .XX                            | ±.01      |                   |        |
| 06 | REDRAWN IN SOLIDWORKS | VJB                            | 7/22/2011 | .XXX              | ±.005  |
| 05 | REDRAWN ON CAD        | DBT                            | 05/27/97  | .XXXX             | ±.0005 |
| NO | REVISION              | BY & DATE                      | CHK       | ANG               | ±1/2°  |
|    |                       | THIRD ANGLE<br>PROJECTION      |           | RFP               | PREV   |
|    |                       |                                |           | NETWORK FILE NAME |        |

|  |  |                                             |  |                    |  |
|--|--|---------------------------------------------|--|--------------------|--|
|  |  | ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES |  | DRAWN WLW 08/20/79 |  |
|  |  |                                             |  | CHK ADN 08/27/76   |  |
|  |  |                                             |  | APPR WRK 08/27/76  |  |
|  |  |                                             |  | SCALE 1:1          |  |
|  |  |                                             |  | REF                |  |
|  |  |                                             |  | FMF                |  |
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|  |  |                                             |  | SIZE               |  |
|  |  |                                             |  | DRAWING NO         |  |
|  |  |                                             |  | REV                |  |
|  |  |                                             |  | A                  |  |
|  |  |                                             |  | 005003-03          |  |
|  |  |                                             |  | 06                 |  |



# CERTIFICATION DATA SHEET

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

**CONN. DIAGRAM:** 005003.03

**CATALOG #:** 110086.00

**OUTLINE:** 028774-550A

**MOUNTING:** F1 ONLY

**WINDING #:** C634257 FR 3 A

## TYPICAL MOTOR PERFORMANCE DATA

| HP  | kW   | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-----|------|-----------|----------|-------|-----------|----------|--------|
| 1/2 | 0.37 | 1800      | 1725     | 56    | TEFC      | L        | L      |

| PH | Hz | VOLTS       | AMPS    | START TYPE      | DUTY       | INSL | S.F. | AMB°C |
|----|----|-------------|---------|-----------------|------------|------|------|-------|
| 1  | 60 | 115/208-230 | 8.8/4.4 | ACROSS THE LINE | CONTINUOUS | B4   | 1.15 | 40    |

|                       |    |                      |      |                      |      |                 |  |                   |
|-----------------------|----|----------------------|------|----------------------|------|-----------------|--|-------------------|
| <b>FULL LOAD EFF:</b> | 66 | <b>3/4 LOAD EFF:</b> | 59.3 | <b>1/2 LOAD EFF:</b> | 50.7 | <b>GTD. EFF</b> |  | <b>ELEC. TYPE</b> |
| <b>FULL LOAD PF:</b>  | 58 | <b>3/4 LOAD PF:</b>  | 51.7 | <b>1/2 LOAD PF:</b>  | 42.9 | 62              |  | CAP START IND RUN |

| F.L. TORQUE     | LOCKED ROTOR AMPS | L.R. TORQUE             | B.D. TORQUE             | F.L. RISE°C |
|-----------------|-------------------|-------------------------|-------------------------|-------------|
| 24 <b>OZ-FT</b> | 40.6 / 20.3       | 86.4 <b>OZ-FT</b> 357 % | 67.3 <b>OZ-FT</b> 272 % | 84          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER   | ROTOR WK^2          | MAX. WK^2        | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|---------------|---------------------|------------------|-----------------|---------------|-------------------|
| 52 <b>dba</b>          | 62 <b>dba</b> | 0.06 <b>LB-FT^2</b> | 0 <b>LB-FT^2</b> | 10 <b>SEC.</b>  | 0             | 25 <b>LBS.</b>    |

## \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

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

| BEARINGS |      | GREASE     | SHAFT TYPE  | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL           | FRAME MATERIAL |
|----------|------|------------|-------------|------------|-------------|--------------------------|----------------|
| DE       | ODE  |            |             |            |             |                          |                |
| BALL     | BALL | POLYREX EM | STANDARD 56 | NONE       | NONE        | 1144 STRESSPROOF (C-223) | ROLLED STEEL   |
| 6203     | 6203 |            |             |            |             |                          |                |

| THERMO-PROTECTORS |            |          |          | THERMISTORS | CONTROL | SPACE HEATERS     |
|-------------------|------------|----------|----------|-------------|---------|-------------------|
| THERMOSTATS       | PROTECTORS | WDG RTDs | BRG RTDs |             |         |                   |
| NONE              | MANUAL     | NONE     | NONE     | NONE        | FALSE   | NONE <b>VOLTS</b> |

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**INVERTER TORQUE:** NONE  
**INV. HP SPEED RANGE:** NONE

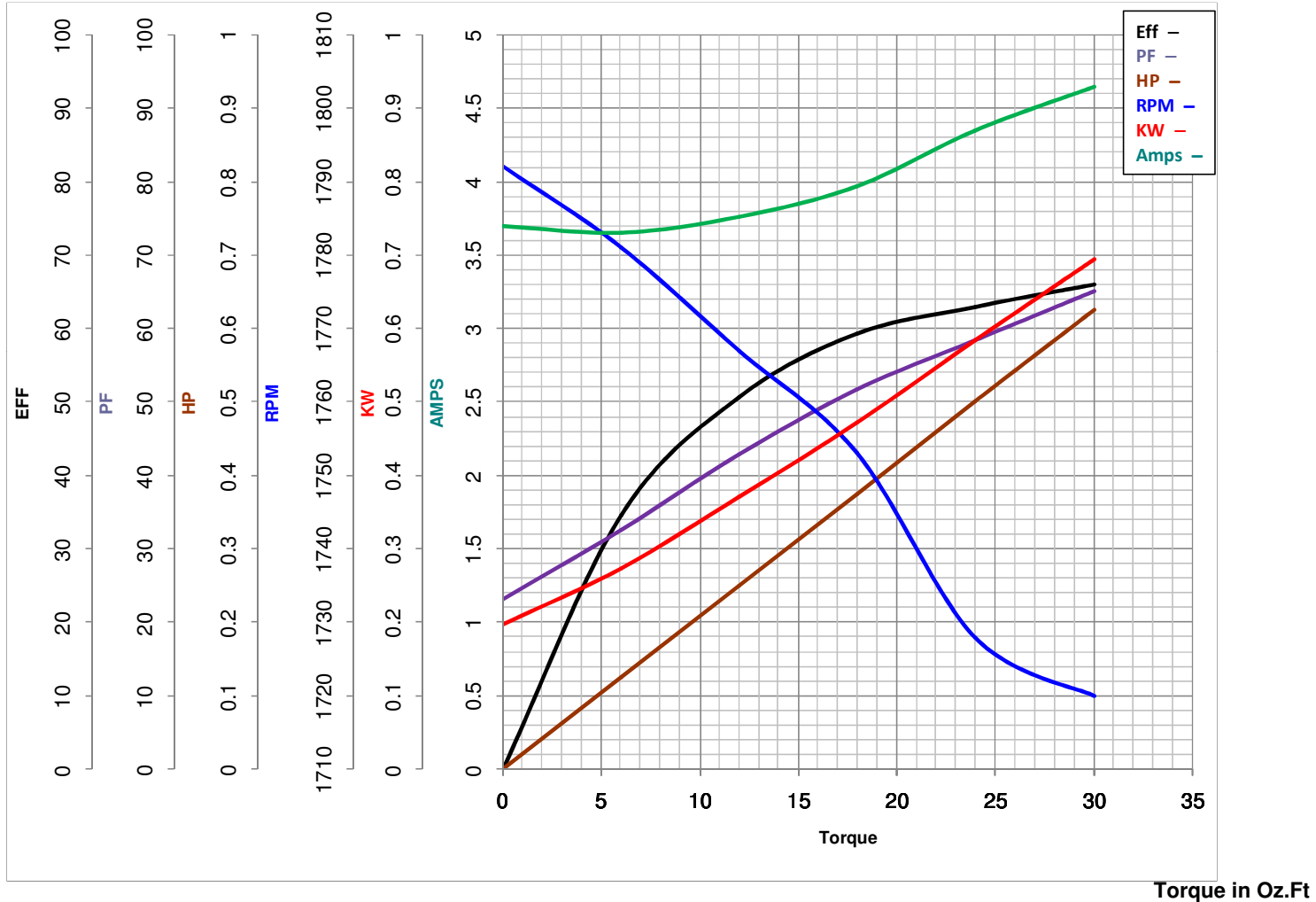
**ENCODER:** NONE  
NONE NONE  
NONE NONE PPR

**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

Model No 110086.00Catalog No 110086.00Curve at 230  
60  
0.5Volts  
HZ  
HPHP 0.50VOLTS 115/208-230PHASE 1HZ 60RPM 1725

FL TORQUE 24 Oz.Ft  
 BD TORQUE 67.3 Oz.Ft  
 LR TORQUE 86.4 Oz.Ft

WINDING C634257-3

FL AMPS 8.8/4.4  
 PU TORQUE 64.5 Oz.Ft  
 LR AMPS 20.28

Date 4/11/2018