

# PRODUCT INFORMATION PACKET



Model No: 110908.00  
Catalog No: 110908.00  
General Purpose Motor, 1 HP, 1 Ph, 60 Hz, 115/230 V, 1800 RPM, 56C Frame, TEFC

Operational at 115/208-230 V @60HZ



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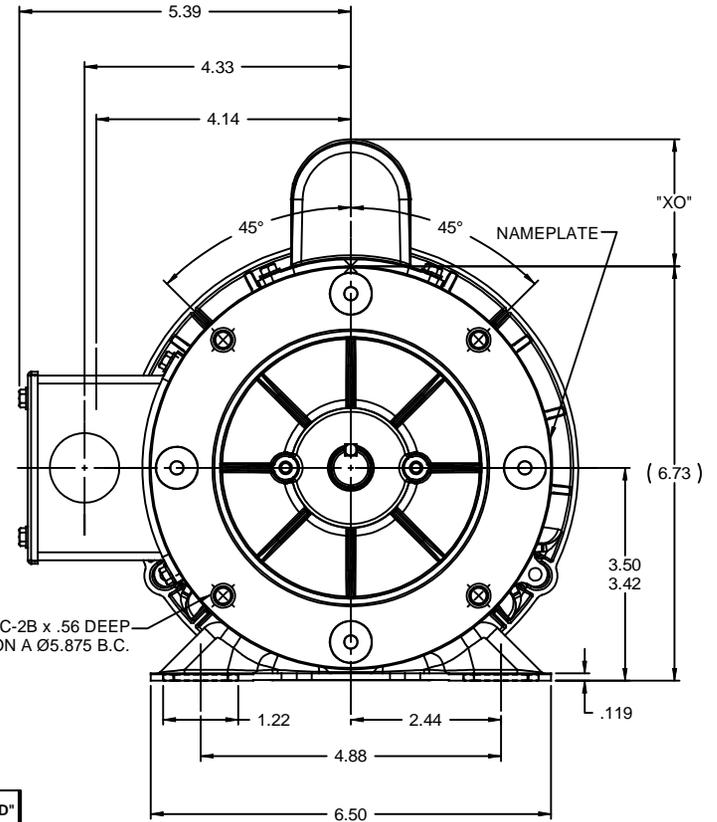
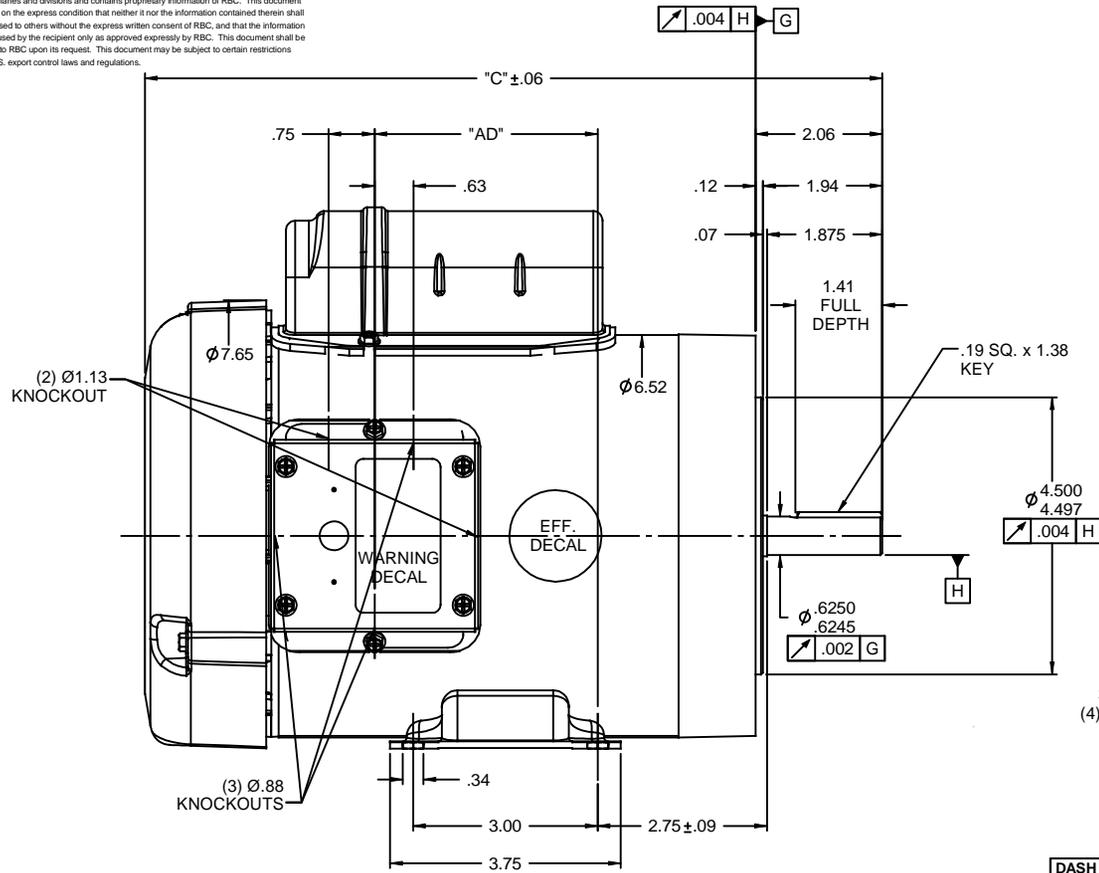
### Nameplate Specifications

|                        |               |                            |                             |
|------------------------|---------------|----------------------------|-----------------------------|
| Phase                  | 1             | Output HP                  | 1 Hp                        |
| Output KW              | 0.75 kW       | Voltage                    | 115/230 V                   |
| Speed                  | 1725 rpm      | Service Factor             | 1.15                        |
| Frame                  | 56C           | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection | Efficiency                 | 75 %                        |
| Ambient Temperature    | 40 °C         | Frequency                  | 60 Hz                       |
| Current                | 12.8/6.4 A    | Power Factor               | 68                          |
| Duty                   | Continuous    | Insulation Class           | B                           |
| Design Code            | L             | KVA Code                   | K                           |
| 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       | 1.9 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        | 11.98 in                   |
| Frame Length          | 6.50 in                       | Shaft Diameter        | 0.625 in                   |
| Shaft Extension       | 1.88 in                       | Assembly/Box Mounting | F1 ONLY                    |
| Outline Drawing       | 028857-650B                   | Connection Drawing    | 005005.01                  |

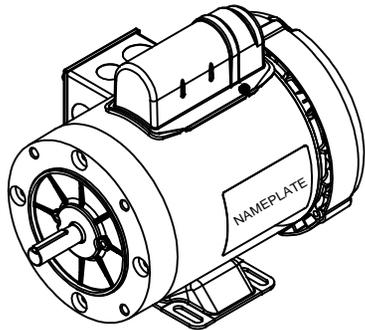
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| DASH NO. | "C"   | "AD" |
|----------|-------|------|
| 500      | 10.48 | 2.12 |
| 550      | 10.98 | 2.62 |
| 600      | 11.48 | 3.12 |
| 650      | 11.98 | 3.62 |
| 700      | 12.48 | 4.12 |
| 750      | 12.98 | 4.62 |
| 800      | 13.48 | 5.12 |
| 850      | 13.98 | 5.62 |

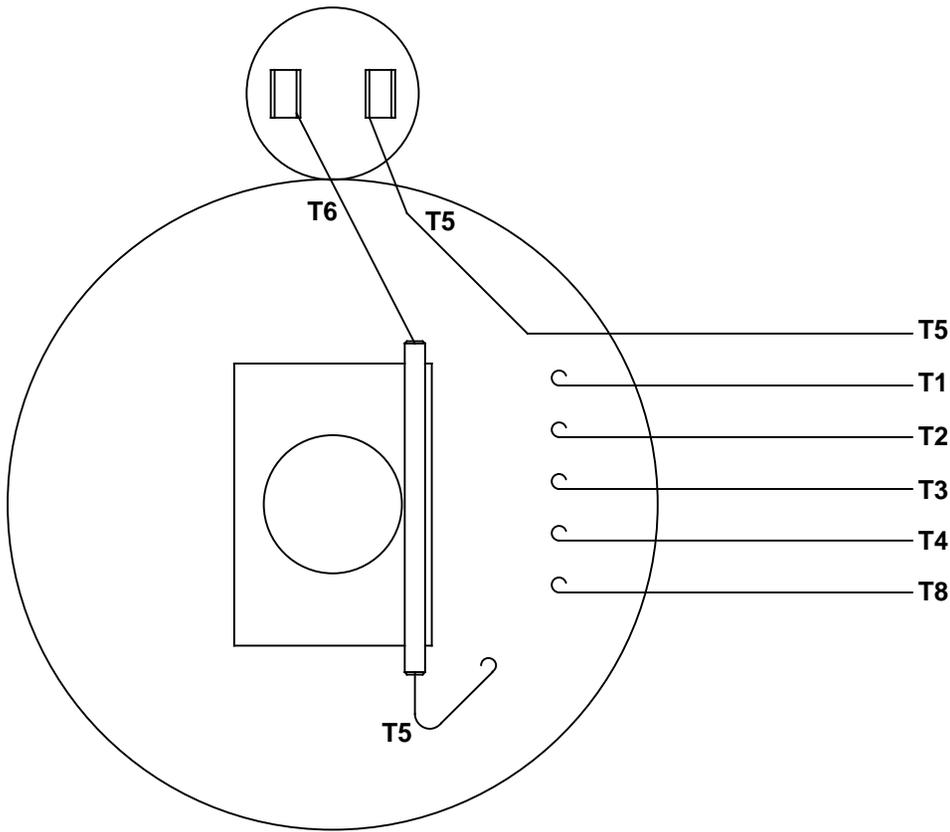
| CAP. DASH | "XO" |
|-----------|------|
| A         | 1.61 |
| B         | 2.08 |
| C         | 2.32 |

NOTES:  
 1) GASKETS THROUGHOUT

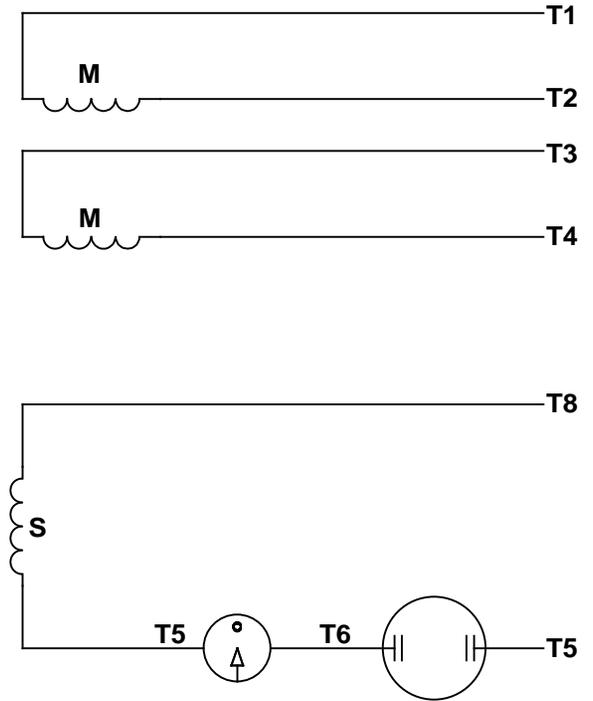


| TOLERANCES UNLESS SPECIFIED |                             |            |                   | ELECTRIC MOTORS GEARMOTORS AND DRIVES |                     | DRAWN GRB 07/22/08 |                 |
|-----------------------------|-----------------------------|------------|-------------------|---------------------------------------|---------------------|--------------------|-----------------|
|                             | DEC                         | INCHES     |                   |                                       |                     |                    | CHK DJ 07/22/08 |
|                             | X                           | ±.1        |                   |                                       |                     |                    | APPR            |
|                             | .XX                         | ±.03       |                   | TITLE                                 | OUTLINE - 56C FRAME |                    | SCALE 1:2       |
|                             | .XXX                        | ±.005      |                   |                                       | TEFC - "C" FACE     |                    | REF 028851      |
| 01                          | ADDED FRAMES 500, 550 & 600 | MBR 9/3/08 | GWS .XXX          | ±.005                                 | MATL                |                    | FMF 110180.00   |
| NO                          | REVISION                    | BY & DATE  | CHK ANG           | ±1/2°                                 | FINISH              |                    | PAGE 1 OF 1     |
|                             |                             |            | RFP               | 07/22/08                              | PREV                |                    |                 |
|                             | THIRD ANGLE PROJECTION      |            | NETWORK FILE NAME |                                       | SIZE                | DRAWING NO         | REV             |
|                             |                             |            |                   |                                       | B                   | 028857             | 01              |

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



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

|                           |   |              |                                |              |   |   |                    |
|---------------------------|---|--------------|--------------------------------|--------------|---|---|--------------------|
| --                        | REDRAWN IN SOLIDWORKS                     | VJB 02/16/11 | TOLERANCES<br>UNLESS SPECIFIED |              | <b>LEESON</b>   | ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES | DRAWN ADH 08/06/73 |
| 27                        | UPDATED TO CURRENT STANDARDS              | DBT 05/27/97 | DEC                            | INCHES       |   |   | CHK                |
| 26                        | ADDED PAGE 32 (114787) & PAGE 33 (114788) | KAZ 12/20/95 | PG                             | .X ±.1       | TITLE EXTERNAL WIRING DIAGRAM<br>TYPE "C" W/O PROTECTOR |   | APPR JCW 03/09/79  |
| 25                        | ADDED PAGE 31                             | KAZ 04/19/95 | DL                             | .XX ±.01     |   |   | SCALE 1:1          |
| 24                        | ADDED PAGES 29 & 30                       | KMM 03/30/95 | DL                             | .XXX ±.005   | MAT'L DECAL - 004012                                    |   | REF FIG 2-23 C4A   |
| 23                        | ADDED PAGE 28                             | KMM 01/27/95 |                                | .XXXX ±.0005 |   |   | FMF MGI-2.4B       |
| NO                        | REVISION                                  | BY & DATE    | CHK                            | ANG ±1/2°    | FINISH  | PAGE  | OF                 |
| THIRD ANGLE<br>PROJECTION |   |              | RFP                            | PREV         | SIZE  | DRAWING NO                                  | REV                |
|                           |   |              | NETWORK FILE NAME 00500501     |              | <b>A</b>  | <b>005005-01</b>                            | --                 |



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

**CERTIFICATION DATA SHEET**

**CONN. DIAGRAM:** 005005.01  
**OUTLINE:** 028857-650B  
**WINDING #:** C634256 FR 3 D

**CATALOG #:** 110908.00  
**MOUNTING:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

| HP | kW   | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|--------|
| 1  | 0.75 | 1800      | 1725     | 56C   | TEFC      | K        | L      |

| PH | Hz | VOLTS       | AMPS     | START TYPE      | DUTY       | INSL | S.F. | AMB°C |
|----|----|-------------|----------|-----------------|------------|------|------|-------|
| 1  | 60 | 115/208-230 | 12.8/6.4 | ACROSS THE LINE | CONTINUOUS | B4   | 1.15 | 40    |

| FULL LOAD EFF: | 75 | 3/4 LOAD EFF: | 72.8 | 1/2 LOAD EFF: | 69.7 | GTD. EFF | ELEC. TYPE        |
|----------------|----|---------------|------|---------------|------|----------|-------------------|
| FULL LOAD PF:  | 68 | 3/4 LOAD PF:  | 58   | 1/2 LOAD PF:  | 45.6 | 70       | CAP START IND RUN |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE   | B.D. TORQUE   | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 3 LB-FT     | 66 / 33           | 9 LB-FT 300 % | 7 LB-FT 233 % | 73          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2   | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|-------------|-----------------|---------------|-------------------|
| 64 dBA                 | 74 dBA      | 0 LB-FT^2  | 0.1 LB-FT^2 | 10 SEC.         | 0             | 33 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 | STANDARD 56 | 56T        | 56T         | 1144 STRESSPROOF (C-223) | ROLLED STEEL   |
| 6203     | 6203 |            |             |            |             |                          |                |

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

|  |  |
|--|--|
| *<br>N<br>O<br>T<br>E<br>S<br>*  | <b>INVERTER TORQUE:</b> NONE                       |
|  | <b>INV. HP SPEED RANGE:</b> NONE                   |
|  | <b>ENCODER:</b> NONE<br>NONE NONE<br>NONE NONE PPR |
| <b>BRAKE:</b> NONE NONE<br>NONE P/N NONE<br>NONE NONE<br>NONE FT-LB NONE V NONE Hz |  |



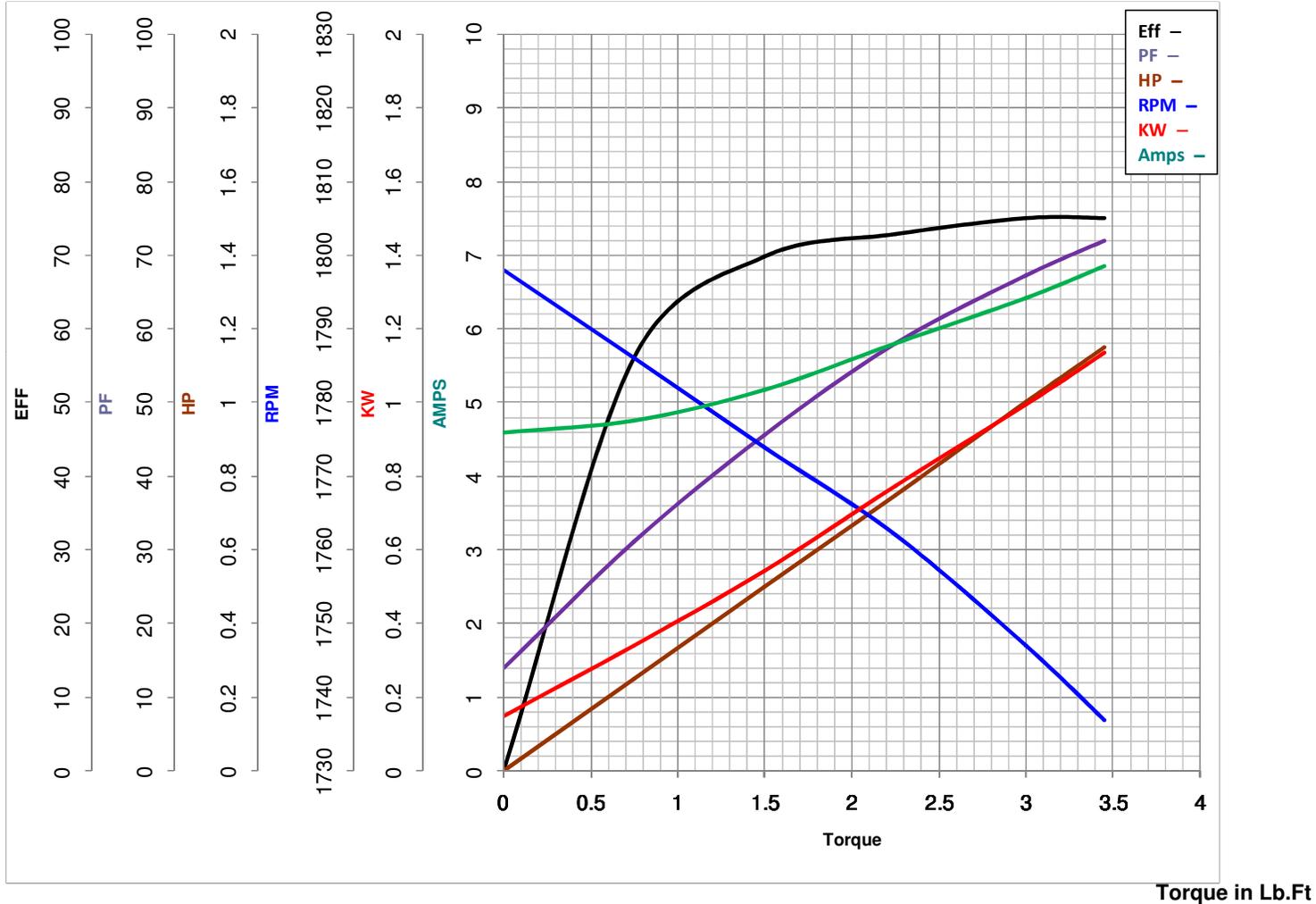
**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 110908.00

Curve at 230 Volts HP 1.00 PHASE 1  
60 HZ  
1 HP VOLTS 115/208-230

Catalog No 110908.00

HZ 60 RPM 1725



|           |            |       |           |                  |       |
|-----------|------------|-------|-----------|------------------|-------|
| FL TORQUE | <u>3</u>   | Lb.Ft | FL AMPS   | <u>12.8/6.4</u>  |       |
| BD TORQUE | <u>7.0</u> | Lb.Ft | PU TORQUE | <u>6.7</u>       | Lb.Ft |
| LR TORQUE | <u>9</u>   | Lb.Ft | LR AMPS   | <u>33</u>        |       |
| WINDING   | C634256-3  |       | Date      | <u>3/26/2018</u> |       |