

# PRODUCT INFORMATION PACKET



Model No: M6C17FK80E

Catalog No: 116486.00

1/2HP..1725RPM.56.TEFC./V.1PH.60HZ.CONT.MANUAL.40C.1.15SF.RIGID C.Farm Duty.M6C17FK80E  
Totally Enclosed Fan Cooled (TEFC)



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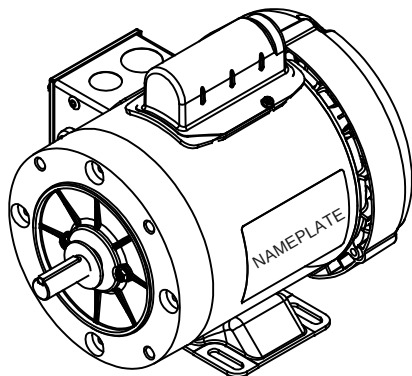
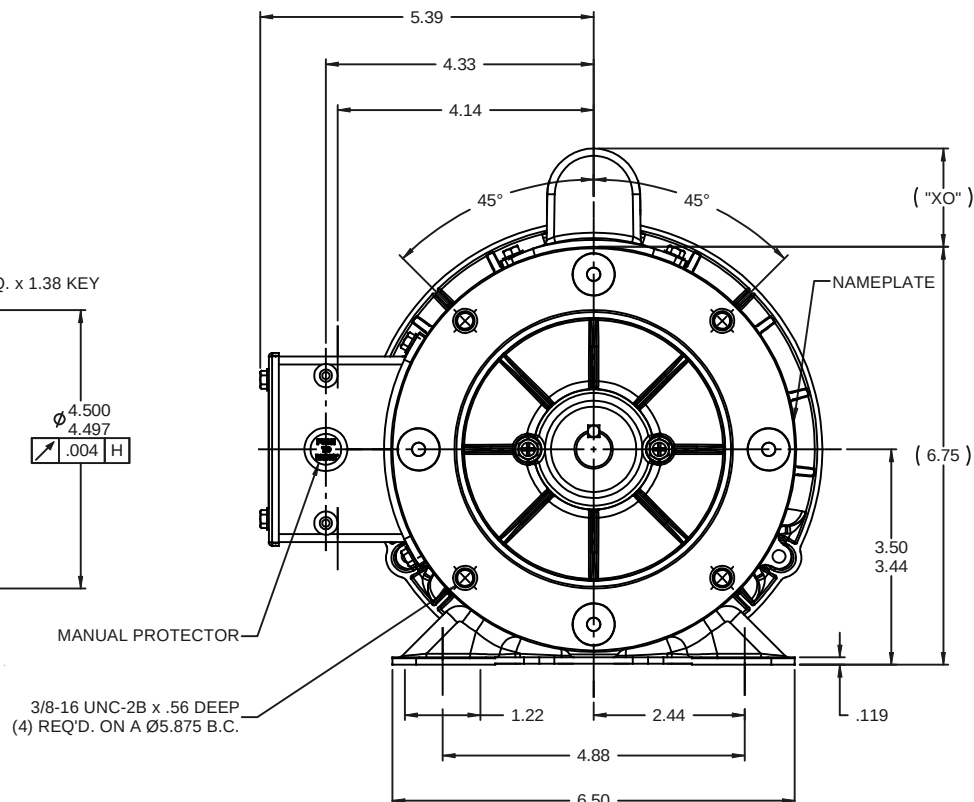
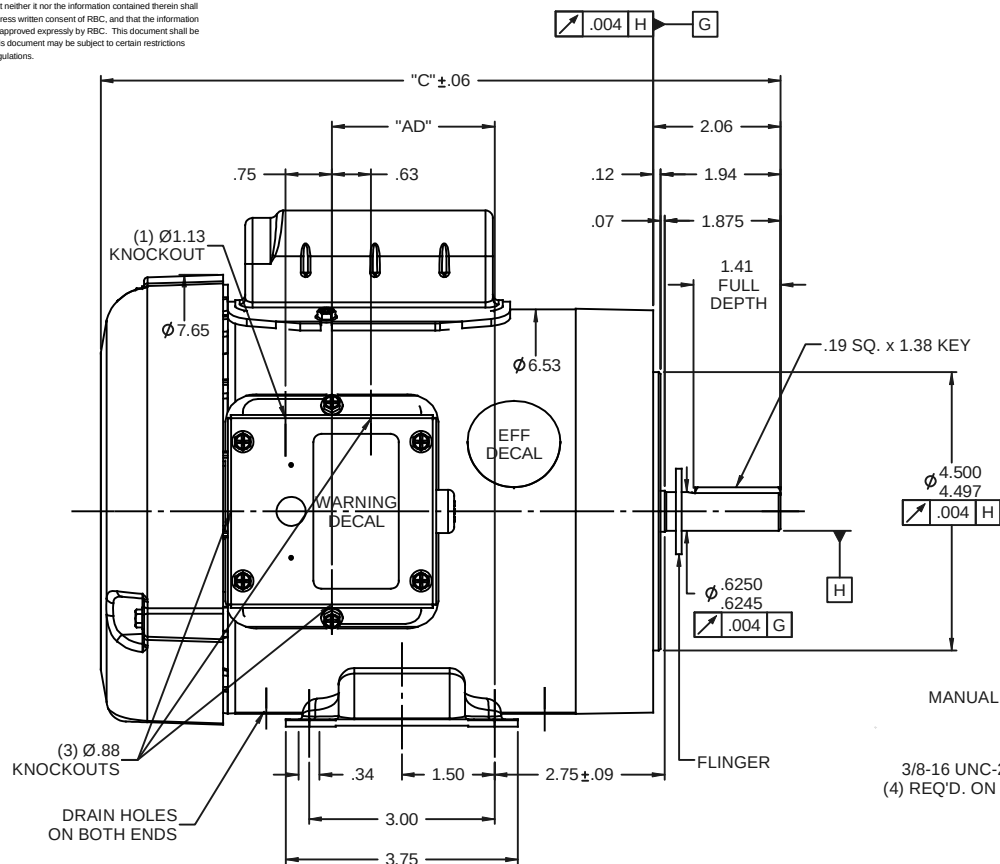


## Nameplate Specifications

|                            |                             |                        |               |
|----------------------------|-----------------------------|------------------------|---------------|
| Output HP                  | 0.50 Hp                     | Output KW              | 0.37 kW       |
| Frequency                  | 60 Hz                       | Voltage                | 115/208-230 V |
| Current                    | 8.8/4.4 A                   | Speed                  | 1725 rpm      |
| Service Factor             | 1.15                        | Phase                  | 1             |
| Efficiency                 | 66 %                        | Duty                   | Continuous    |
| Insulation Class           | B                           | Design Code            | N             |
| KVA Code                   | L                           | Frame                  | 56C           |
| Enclosure                  | Totally Enclosed Fan Cooled | Overload Protector     | Manual        |
| Ambient Temperature        | 40 °C                       | Drive End Bearing Size | 6203          |
| Opp Drive End Bearing Size | 6203                        | UL                     | Recognized    |
| CSA                        | Y                           | CE                     | N             |
| IP Code                    | 43                          |                        |               |

## Technical Specifications

|                       |                               |                       |                            |
|-----------------------|-------------------------------|-----------------------|----------------------------|
| Electrical Type       | Capacitor Start Induction Run | Starting Method       | Across The Line            |
| Poles                 | 4                             | Rotation              | Selective Counterclockwise |
| 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        | 10.99 in                      | Frame Length          | 5.50 in                    |
| Shaft Diameter        | 0.625 in                      | Shaft Extension       | 1.88 in                    |
| Assembly/Box Mounting | F1 ONLY                       |                       |                            |
| Outline Drawing       | 028914-550A                   | Connection Diagram    | 005003.03                  |

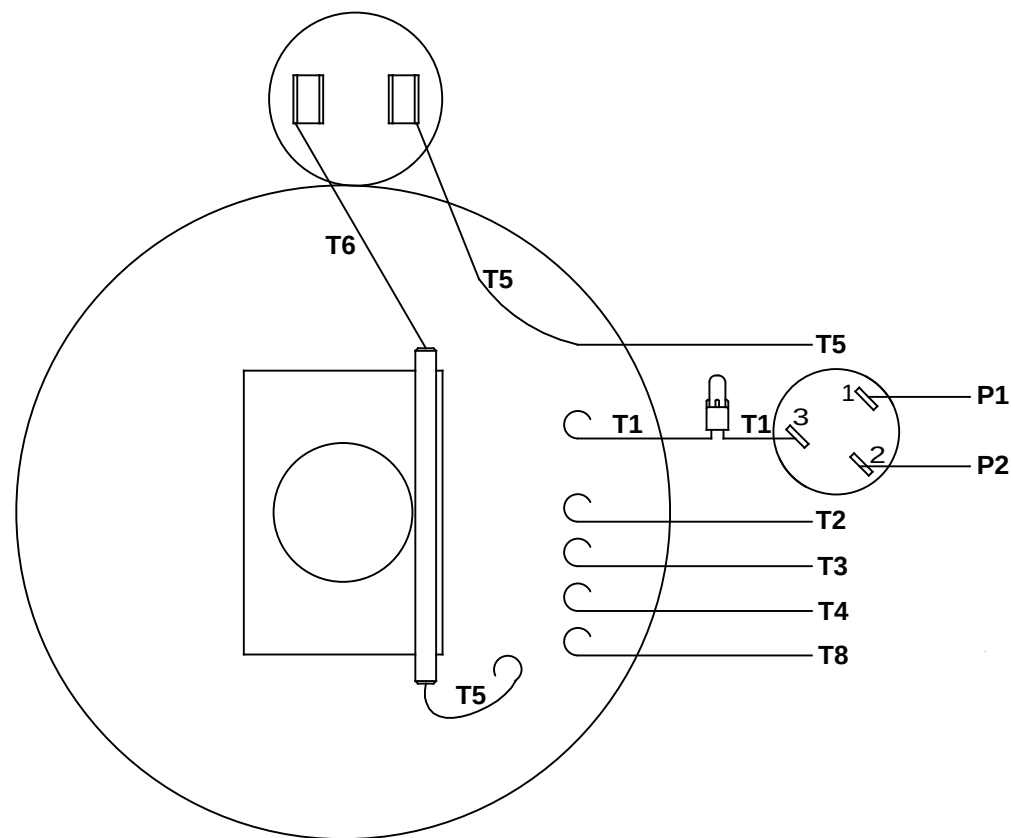


| DASH NO. | "C"   | "AD" |           |      |
|----------|-------|------|-----------|------|
| 550      | 10.99 | 2.63 |           |      |
| 600      | 11.49 | 3.13 |           |      |
| 650      | 11.99 | 3.63 | CAP. DASH | "XO" |
| 700      | 12.49 | 4.13 | A         | 1.61 |
| 750      | 12.99 | 4.63 | B         | 2.08 |
| 800      | 13.49 | 5.13 | C         | 2.32 |

SPECIAL FEATURES:  
1) GASKETS THROUGHOUT  
2) MANUAL PROTECTOR  
3) FLINGER ON SHAFT

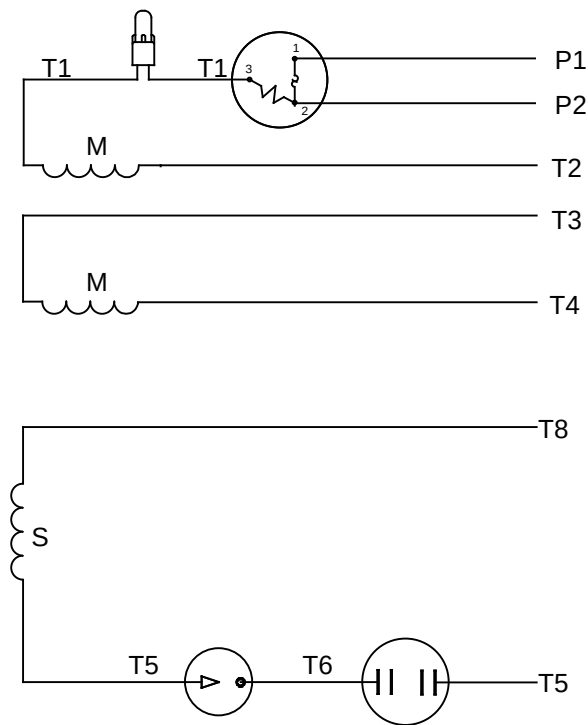
|                                                                                                                 |          |                                  |                   |                                                                                                                                            |        |                    |                      |
|-----------------------------------------------------------------------------------------------------------------|----------|----------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------|----------------------|
|                                                                                                                 |          | TOLERANCES<br>(UNLESS SPECIFIED) |                   |  <b>ELECTRIC MOTORS<br/>GEARMOTORS<br/>AND DRIVES</b> |        | DRAWN GRB 12/05/08 |                      |
|                                                                                                                 |          | DEC INCHES                       |                   |                                                                                                                                            |        | CHK DJ 12/05/08    |                      |
|                                                                                                                 |          | X ±.1                            |                   |                                                                                                                                            |        | APPR DJ 12/05/08   |                      |
|                                                                                                                 |          | XX ±.03                          |                   |                                                                                                                                            |        | SCALE 1:2          |                      |
|                                                                                                                 |          | XXX ±.005                        |                   |                                                                                                                                            |        | REF 028578         |                      |
|                                                                                                                 |          | XXXX ±.0005                      |                   | MATL FARM DUTY                                                                                                                             |        | FMF 116486.00      |                      |
| NO                                                                                                              | REVISION |                                  | BY & DATE         | CHK ANG ±1/2°                                                                                                                              | FINISH | PAGE 1 OF 1        |                      |
| THIRD ANGLE<br>PROJECTION  |          |                                  | RFP 12/05/08      |                                                                                                                                            | PREV   | SIZE<br>B          | DRAWING NO<br>028914 |
|                                                                                                                 |          |                                  | NETWORK FILE NAME |                                                                                                                                            |        |                    | REV                  |

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END

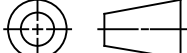


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LINE LEADS



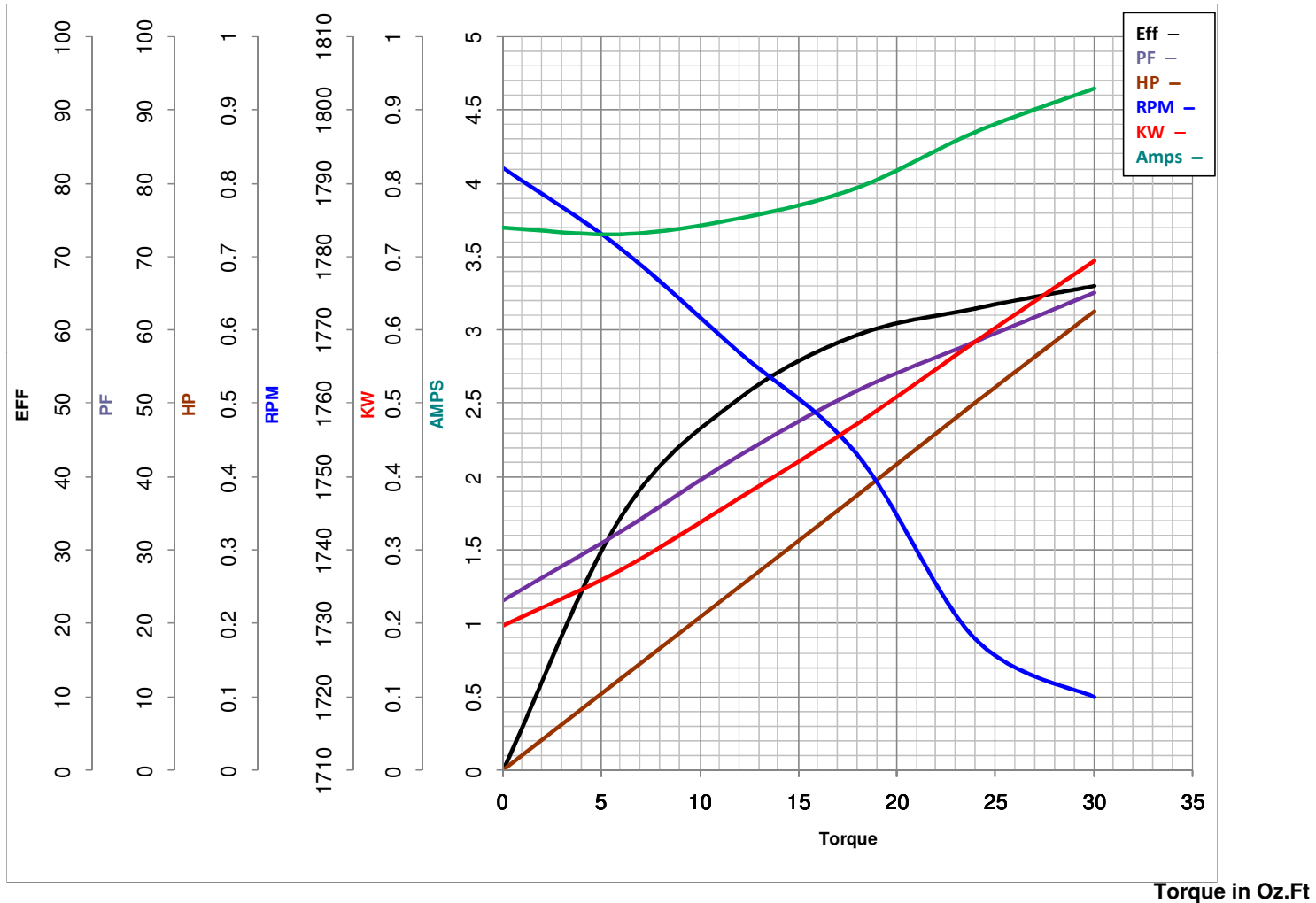
|              | ROTATION<br>FACING<br>LEAD END | L1 | L2          | JOIN        | INSULATE<br>SEPARATELY |
|--------------|--------------------------------|----|-------------|-------------|------------------------|
| HIGH<br>VOLT | C.C.W.                         | P1 | T4<br>T5    | T2,T3<br>T8 | P2                     |
|              | 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 |        |  | ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES |           | DRAWN WLW 08/20/79 |            |         |     |
|                                                                                                                           |                       |               |           | DEC                            | INCHES |                                                                                       |                                             |           | CHK ADN 08/27/76   |            |         |     |
|                                                                                                                           |                       |               |           | .X                             | ±.1    |                                                                                       |                                             |           | APPR WRK 08/27/76  |            |         |     |
|                                                                                                                           |                       |               |           | .XX                            | ±.01   | TITLE EXTERNAL WIRING DIAGRAM<br>TYPE "C" W/PROTECTOR                                 |                                             |           |                    | SCALE 1:1  |         |     |
| 06                                                                                                                        | REDRAWN IN SOLIDWORKS | VJB 7/22/2011 |           | .XXX                           | ±.005  |                                                                                       |                                             |           |                    | REF        |         |     |
| 05                                                                                                                        | REDRAWN ON CAD        | DBT 05/27/97  |           | .XXXX                          | ±.0005 | MAT'L DECAL - 004011                                                                  |                                             |           |                    | FMF        |         |     |
| NO                                                                                                                        | REVISION              |               | BY & DATE | CHK                            | ANG    | ±1/2°                                                                                 | FINISH                                      |           |                    |            | PAGE OF |     |
| <div>THIRD ANGLE<br/>PROJECTION</div>  |                       |               |           | RFP                            |        | PREV                                                                                  |                                             |           | SIZE               | DRAWING NO |         | REV |
|                                                                                                                           |                       |               |           | NETWORK FILE NAME 00500303     |        |                                                                                       | A                                           | 005003-03 |                    | 06         |         |     |



# LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 116486.00Curve at 230  
60  
0.5Volts  
HZ  
HPHP 0.50PHASE 1VOLTS 115/208-230Catalog No 116486.00HZ 60RPM 1725

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

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

WINDING C634257-3

Date 4/12/2018