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# General Purpose Motors

**Model No:** 447TTFCD6080
**Catalog No:** GT1153A

General Purpose Motor, 150 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 447T Frame, TEFC

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## Product Information Packet: Model No: 447TTFCD6080, Catalog No: GT1153A General Purpose Motor, 150 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 447T Frame, TEFC

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **150 Hp** |
| Output KW | **112.0 kW** | Voltage | **575 V** |
| Speed | **1190 r/min** | Synchronous RPM | **1200 r/min** |
| Service Factor | **1.15** | Frame | **447T** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **95.8 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **136.0 A** |
| Power Factor | **86** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **6319** |
| Opp Drive End Bearing Size | **6317** | UL | **Listed** |
| CSA | **Y** | CE | **Y** |
| IP Code | **55** | Number of Speeds | **1** |
| Hazardous Location | **DIVISION 2 T2B** | | |

### Technical Specifications

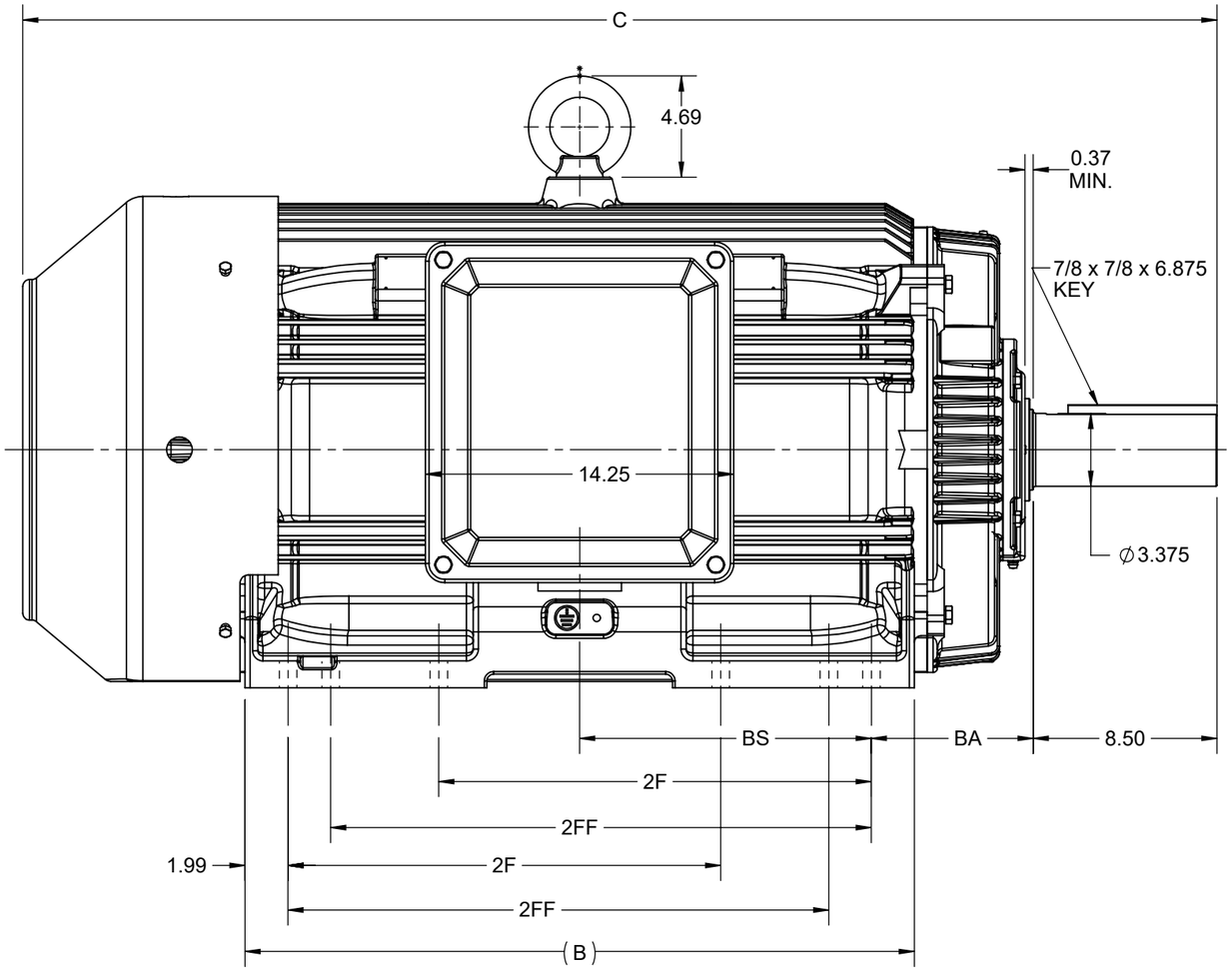
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Line Or Inverter** |
| Poles | **6** | Rotation | **Reversible** |
| Resistance Main | **.0223 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **T** | Overall Length | **55.21 in** |
| Frame Length | **32.12 in** | Shaft Diameter | **3.375 in** |
| Shaft Extension | **8.5 in** | Assembly/Box Mounting | **F1/F2 Capable** |
| Inverter Load | **Constant 2:1/Variable 10:1** | | |

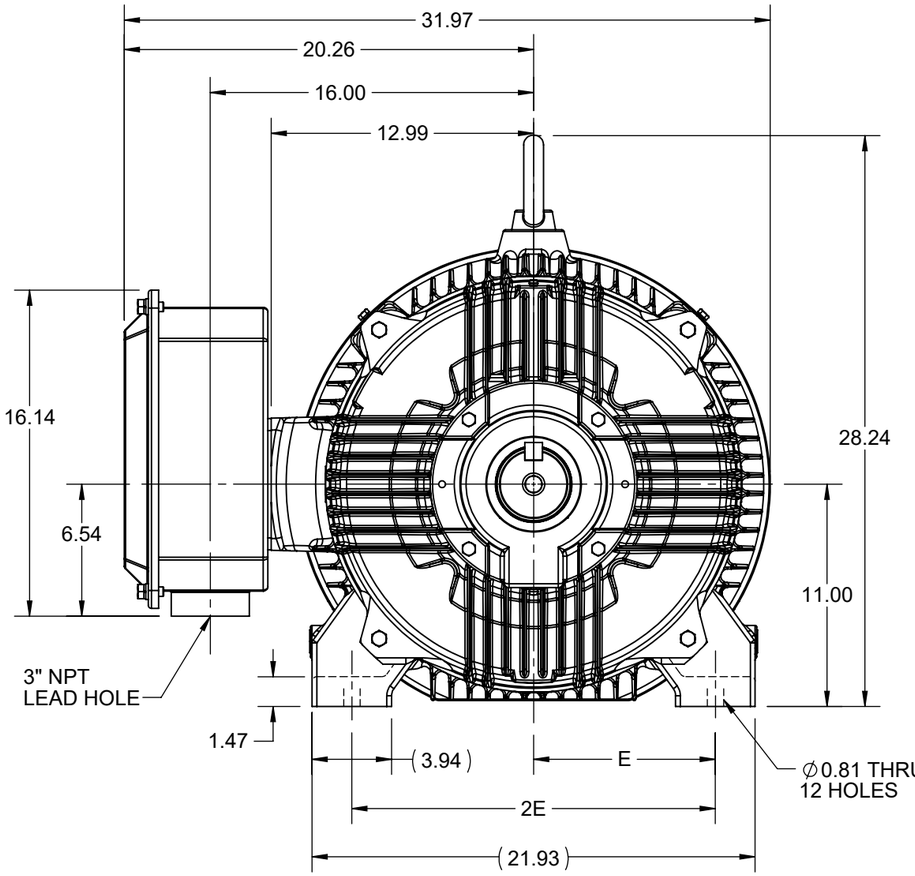
### Drawings

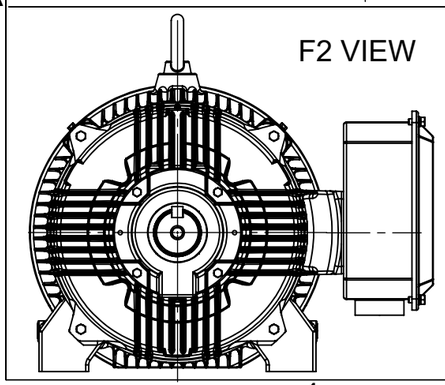
| | | | |
|---|---|---|---|
| Connection Drawing | **EE7300U** | Outline Drawing | **SS557013** |

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| B | C | E | 2E | 2F | 2FF | BA | BS | MOUNTING |
|---|---|---|---|---|---|---|---|---|
| 30.94 | 55.21 | 9.00 | 18.00 | 20.00 | 25.00 | 7.50 | 13.48 | F1 OR F2 |




| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| E | SB | 09/02/2025 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0023556 | SBD | 09/02/2025 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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| DRAWN BY | NIV |
|---|---|
| DATE | 23/05/2016 |
| APPROVED BY | SBD |
| DATE | 23/05/2016 |
| REFERENCE | |

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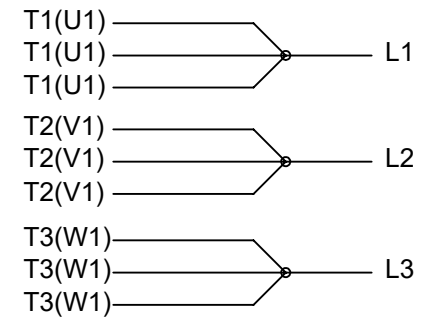
DESCRIPTION
OUTLINE
447/449T FR-TEFC

MATERIAL | PROCESS/FINISH

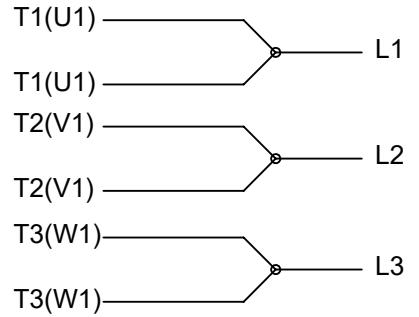
THIRD ANGLE PROJECTION

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| B | SS557013 | 1 OF 1 |

IF MOTOR HAS 9 LEADS

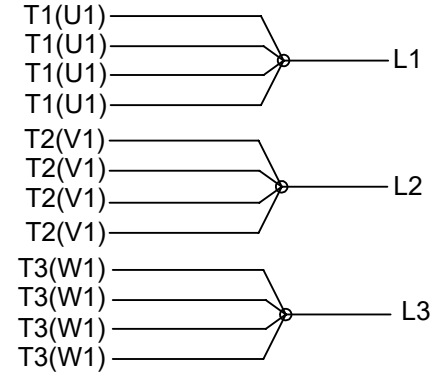


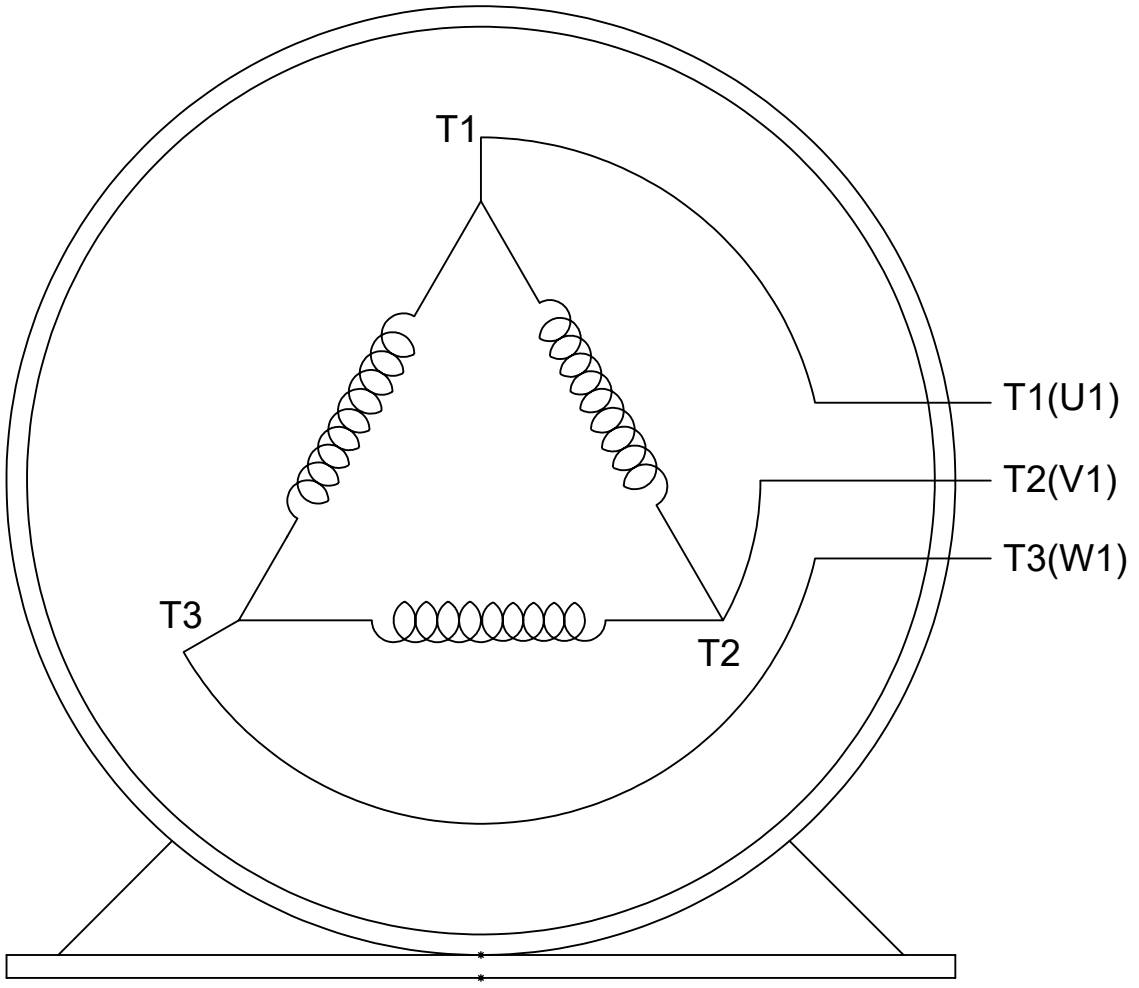

IF MOTOR HAS 6 LEADS




A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS




VIEW OF TERMINAL END

| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| M | SB | 08/01/2025 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0023654 | SBD | 08/01/2025 |

REQUEST NUMBER DESCRIPTION
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| | |
|---|---|
| DRAWN BY | DRS |
| DATE | 09-27-1996 |
| APPROVED BY | GK |
| DATE | 09-30-1996 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø SINGLE VOLTAGE

| MATERIAL | PROCESS/FINISH |
|---|---|
| | |

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | EE7300U | 1 OF 1 |

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# Data Sheet

Date: 5/3/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

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447TTFCD6080

**Submittal**

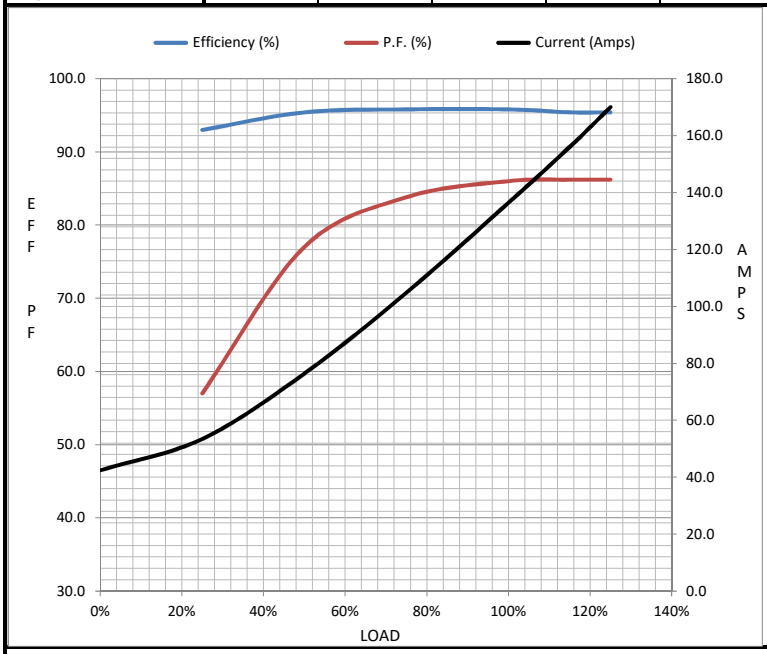
Data @ 575 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 42.4 | 53.4 | 76.4 | 105 | 136 | 156 | 170 | 868 | |
| Torque (ft-lb) | 0.00 | 165 | 330 | 495 | 662 | 760 | 830 | 1,192 | |
| RPM | 1200 | 1198 | 1195 | 1192 | 1190 | 1,188 | 1188 | 0 | |
| Efficiency (%) | | 93.0 | 95.4 | 95.8 | 95.8 | 95.4 | 95.4 | | |
| P.F. (%) | 5.0 | 57.0 | 77.0 | 83.8 | 86.0 | 86.2 | 86.2 | 30.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 600 | 1158 | 1190 | 1200 |
| Current (Amps) | 868 | 696 | 490 | 136 | 42.4 |
| Torque (ft-lb) | 1,192 | 1,020 | 1,757 | 662 | 0.00 |




## Information Block

| | | |
|---|---|---|
| HP | 150.0 | |
| Sync. RPM | 1200 | |
| Frame | 449182TTFC6080 | |
| Enclosure | TEFC | |
| Construction | TFC | |
| Voltage | 575 | V |
| Frequency | 60 | Hz |
| Design | A | |
| LR Code letter | G | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 65 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 1,000 | feet |
| Rotor/Shaft wk² | 138 | Lb-Ft² |
| Ref Wdg | HE32806007 NONE | |
| Sound Pressure @ 1M | 75 | dBA |
| VFD Rating | VARIABLE 10:1 | |
| Outline Dwg | SS557013 | |
| Conn. Diag | EE7300 | |

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.0220 | 0.0200 | 0.2140 | 0.3540 | 7.7370 |

## Speed -Torque Curve

