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# Fire Pump Motors

**Model No:** 284TSTFPA14007
**Catalog No:** Y1612

Fire Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 284TS Frame, TEFC

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## Product Information Packet: Model No: 284TSTFPA14007, Catalog No: Y1612 Fire Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 284TS Frame, TEFC

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **25 & 20 Hp** |
| Output KW | **18.7 & 14.9 kW** | Voltage | **230/460 & 190/380 V** |
| Speed | **3520 & 2918 r/min** | Synchronous RPM | **3600 & 3000 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **284TS** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **91 & 90.2 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **59/29.5 & 58/29 A** |
| Power Factor | **87** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **6311** |
| Opp Drive End Bearing Size | **6210** | UL | **Listed** |
| CSA | **Y** | CE | **Y** |
| IP Code | **43** | Number of Speeds | **1** |

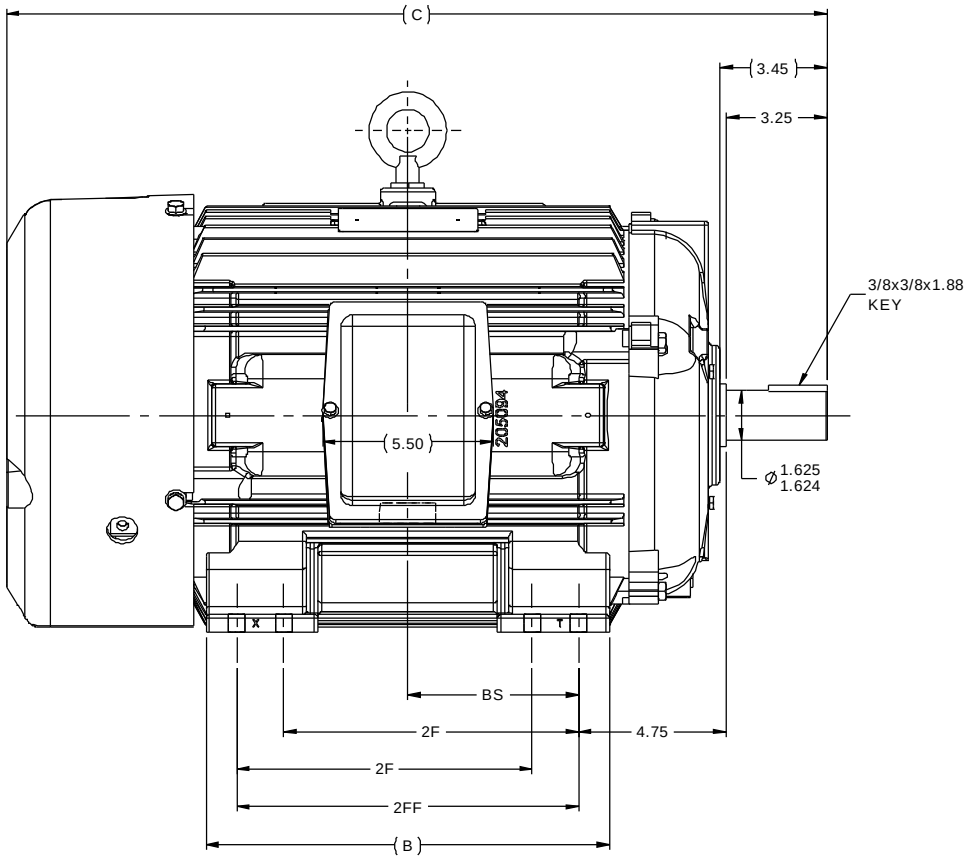
### Technical Specifications

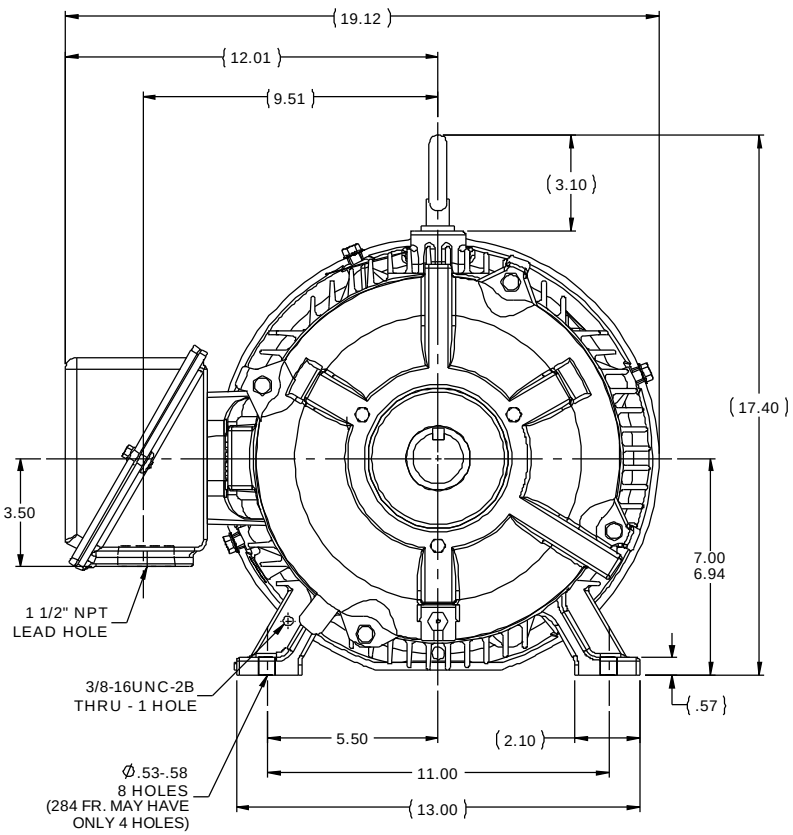
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Part Wdg Start Low Volt Only & Wye Start Delta Run** |
| Poles | **2** | Rotation | **Reversible** |
| Resistance Main | **.345 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **TS** | Overall Length | **24.93 in** |
| Frame Length | **12.76 in** | Shaft Diameter | **1 5/8 in** |
| Shaft Extension | **3.45 in** | Assembly/Box Mounting | **F1/F2 Capable** |

### Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **EE7308AA** | Outline Drawing | **B-SS311235-1275** |

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NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

| DASH | FRAME | C | B | 2F | 2FF | BS |
|---|---|---|---|---|---|---|
| 1275 | 284TS | 24.93 | 11.50 | 9.50 | - - - | 4.75 |
| 1425 | 284/286TS | 26.43 | 13.00 | 9.50 | 11.00 | 5.50 |

| NO | REVISION | BY & DATE | CHK |
|---|---|---|---|
| 3 | UPDATED FRAME TO NEW DESIGN AND TO SHOW 8 FOOT HOLES ISAAC 10-2539 + MU112292 | MSG 02-27-2013 | DR |
| 2 | REVISED C'BOX LEAD HOLE FROM 1 1/4 TO 1 1/2 MU39106 | CAV 09-28-2001 | ML |
| 1 | NEW DRAWING MU39106 | CAV 09-26-2001 | ML |

TOLERANCES UNLESS SPECIFIED: DEC INCHES; X ±.1; XX ±.03; XXX ±.005; XXXX ±.0005; ANG ±7'30"

THIRD ANGLE PROJECTION

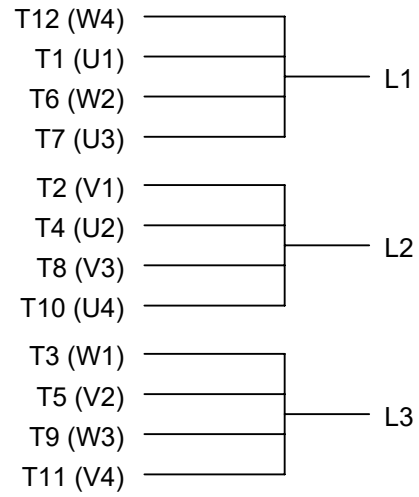
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| | |
|---|---|
| DRAWN | CAV 09-26-2001 |
| CHK | ML 09-26-2001 |
| APPR | BW 09-26-2001 |
| SCALE | 1:4 |
| REF | |
| FMF | MU39106 |
| PAGE | OF |

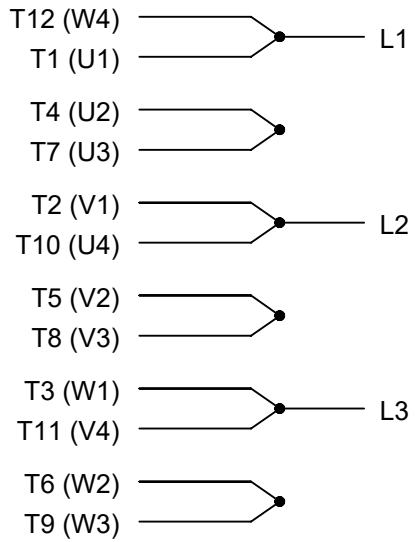
TITLE: OUTLINE - TEFC - TFPA
280TS FR. - STD. - 11.00 LAM

MAT'L:
FINISH:
RFP:
PREV:
NETWORK FILE NAME: SS311235

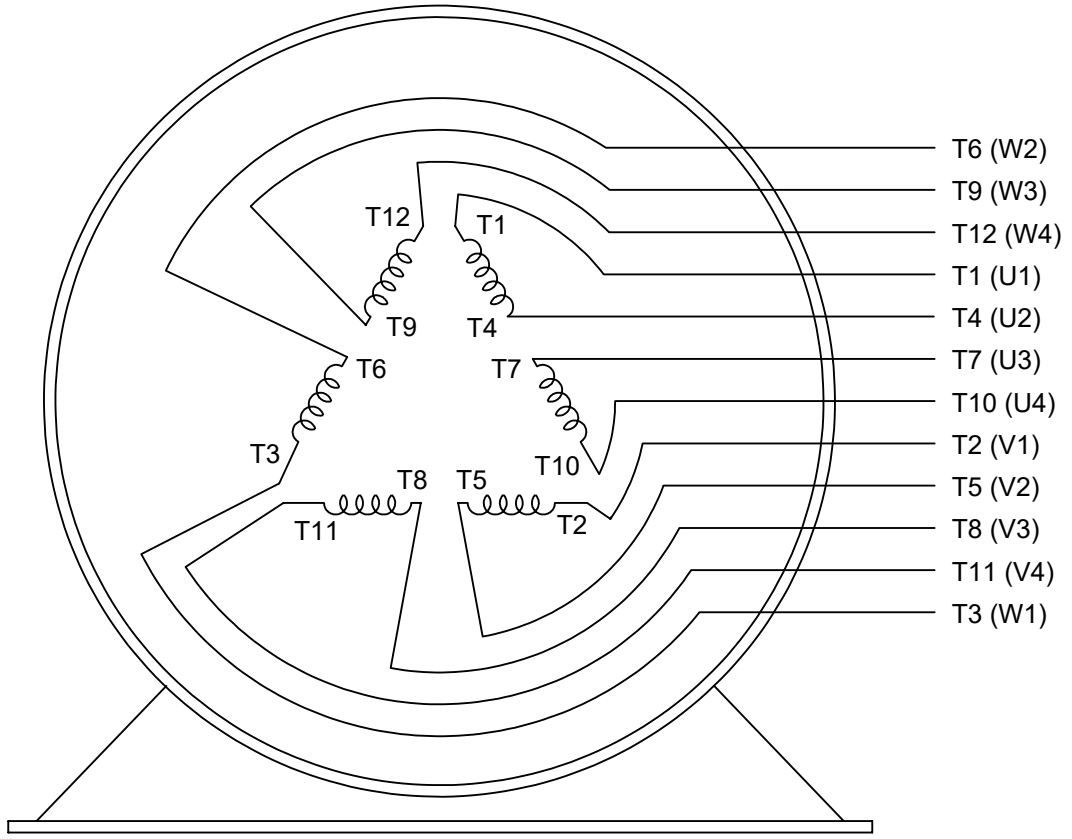
| SIZE | DRAWING NO | REV |
|---|---|---|
| B | SS311235 | 3 |




LOW VOLTAGE




HIGH VOLTAGE




VIEW OF TERMINAL END

| | | | | | |
|---|---|---|---|---|---|
| DRAWING REVISION: L | REVISION BY: SB | REV DATE/© DATE: 08/01/2025 | PRIMARY DIMENSIONS ARE INCH<br>mm DIMENSIONS IN [BRACKETS]<br>ARE FOR REFERENCE ONLY | DRAWN BY: LZ | marathon™ |
| REQUEST NUMBER: CR-0023654 | APPROVED BY: SBD | DATE: 08/01/2025 | | DATE: 01-12-1994 | |
| REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED | | | | APPROVED BY: GK | DESCRIPTION: CONN DIAGRAM-EXTERNAL<br>3Ø-2/1 DELTA-12 LEADS |
| | | | | DATE: 01-14-1994 | |
| | | | | REFERENCE | MATERIAL / PROCESS/FINISH |
| | | | | THIRD ANGLE PROJECTION | SIZE: A / DRAWING NUMBER: EE7308AA / SHEET: 1 OF 1 |

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# Data Sheet

**Date:** 12/10/2018
**Customer:**
**Attention:**
**Submitted by:** FAREEDA DUDEKULA

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284TSTFPA14007

**Submittal**

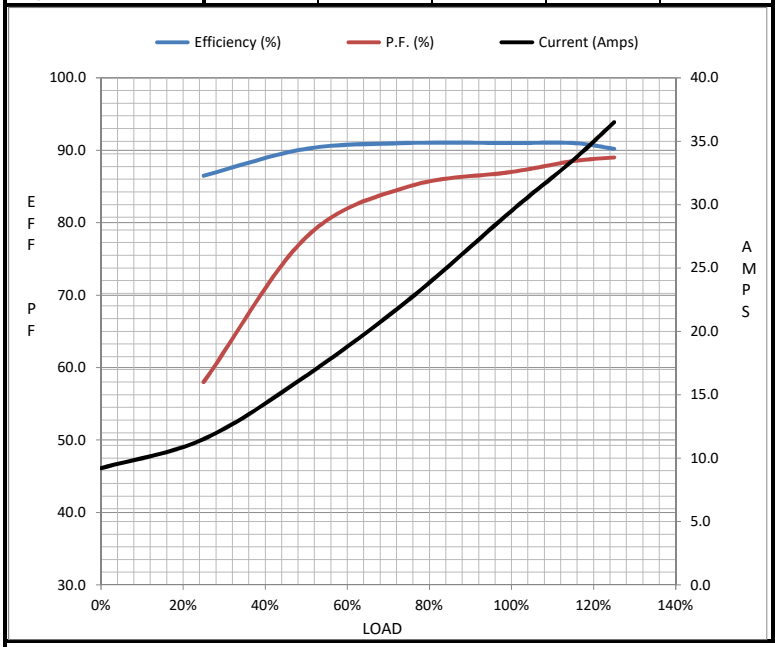
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 9.2 | 11.5 | 16.5 | 22.5 | 29.5 | 33.5 | 36.5 | 178 | |
| Torque (ft-lb) | 0.00 | 9.2 | 18.5 | 28.0 | 37.5 | 43.0 | 47.0 | 67.0 | |
| RPM | 3600 | 3580 | 3560 | 3540 | 3520 | 3,505 | 3495 | 0 | |
| Efficiency (%) | | 86.5 | 90.2 | 91.0 | 91.0 | 91.0 | 90.2 | | |
| P.F. (%) | 8.5 | 58.0 | 78.0 | 85.0 | 87.0 | 88.5 | 89.0 | 37.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 1800 | 3150 | 3520 | 3600 |
| Current (Amps) | 178 | 165 | 110 | 29.5 | 9.2 |
| Torque (ft-lb) | 67.0 | 60.0 | 98.0 | 37.5 | 0.00 |




## Information Block

| | |
|---|---|
| HP | 25.0 |
| Sync. RPM | 3600 |
| Frame | 284 |
| Enclosure | TEFC |
| Construction | TFS |
| Voltage | 230/460#190/380 V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | G |
| Service Factor | 1.15 |
| Temp Rise @ FL | 70 ° C |
| Duty | CONT |
| Ambient | 40 ° C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk² | 1.45 Lb-Ft² |
| Ref Wdg | K2562197 NONE |
| Sound Pressure @ 1M | 75 dBA |
| VFD Rating | NONE |
| Outline Dwg | B-SS311235-1275 |
| Conn. Diag | A-EE7308AA |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.2390 | 0.2170 | 0.9010 | 0.8440 | 29.0130 |

