# Fire Pump Motors

**Model No:** 284TSTDBD4008
**Catalog No:** U1103

Fire Pump Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 284TS Frame, DP

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## Product Information Packet: Model No: 284TSTDBD4008, Catalog No: U1103 Fire Pump Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 284TS Frame, DP

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **30 Hp** |
| Output KW | **22.4 kW** | Voltage | **575 V** |
| Speed | **3560 r/min** | Synchronous RPM | **3600 r/min** |
| Service Factor | **1.15** | Frame | **284TS** |
| Enclosure | **Drip Proof** | Thermal Protection | **No Protection** |
| Efficiency | **91 %** | Ambient Temperature | **50 °C** |
| Frequency | **60 Hz** | Current | **28.8 A** |
| Power Factor | **86** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **F** | Drive End Bearing Size | **6211** |
| Opp Drive End Bearing Size | **6211** | UL | **Listed** |
| CSA | **Y** | CE | **Y** |
| IP Code | **23** | Number of Speeds | **1** |

### Technical Specifications

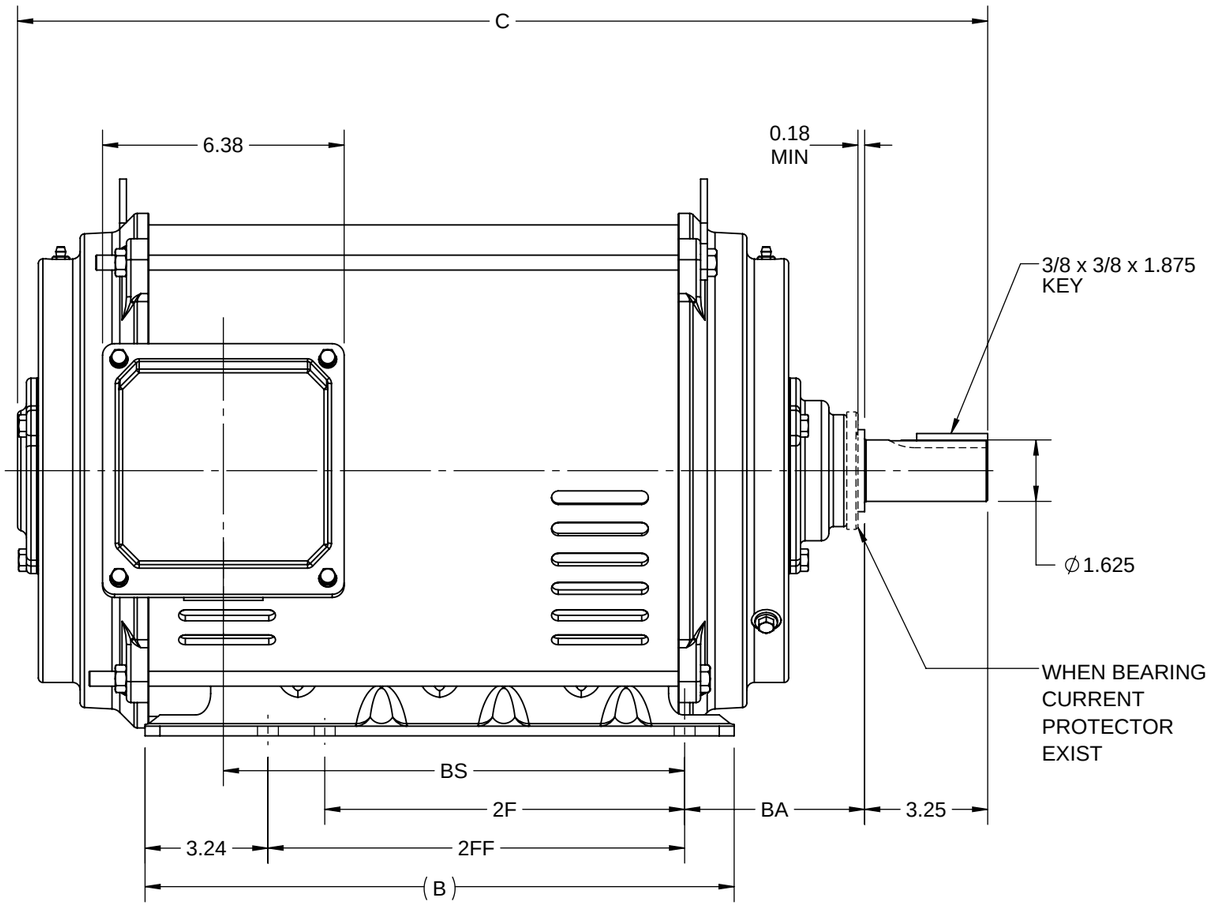
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Part Wdg Start & Wye Start Delta Run** |
| Poles | **2** | Rotation | **Reversible** |
| Resistance Main | **.38 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Rolled Steel** |
| Shaft Type | **TS** | Overall Length | **24.34 in** |
| Frame Length | **12.59 in** | Shaft Diameter | **1 5/8 in** |
| Shaft Extension | **3.25 in** | Assembly/Box Mounting | **F1/F2 Capable** |

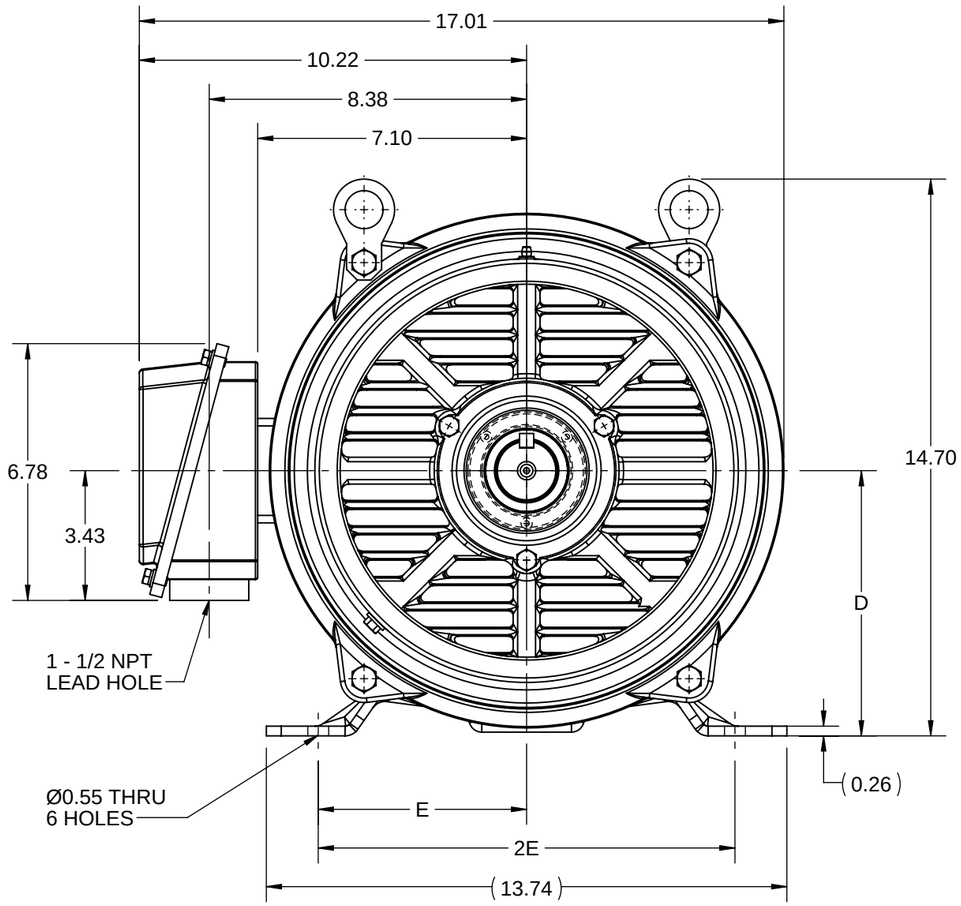
### Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **EE7300BH** | Outline Drawing | **SS620709-284TS** |

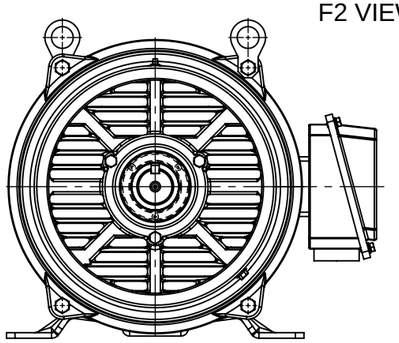
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| DASH NO. | B | C | D | E | 2E | 2F | 2FF | BA | BS | MOUNTING | FRAME |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 15.55 | 24.23 | 7.00 | 5.50 | 11.00 | 9.50 | 11.00 | 4.75 | 10.80 | F1 OR F2 | 284TS |
| 200 | | 25.61 | | | | | | | 12.18 | | 286TS |




F2 VIEW



| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| E | SV | 05/22/2026 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0026372 | RMS | 05/22/2026 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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| | |
|---|---|
| DRAWN BY | VS |
| DATE | 12/02/2021 |
| APPROVED BY | GNK |
| DATE | 12/02/2021 |
| REFERENCE | |

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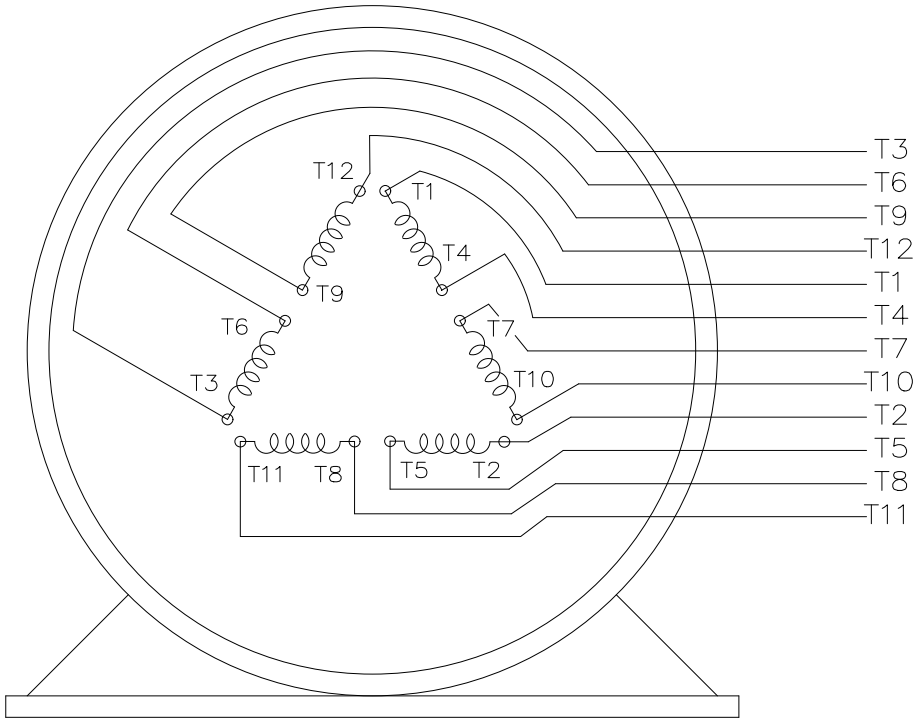
DESCRIPTION
OUTLINE
284/286TS FR NEMA ODP RS

MATERIAL | PROCESS/FINISH

THIRD ANGLE PROJECTION

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| B | SS620709 | 1 OF 1 |

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VIEW OF TERMINAL END

T12(W4)
T1(U1)
T6(W2)
T7(U3)
LINE 1

T2(V1)
T4(U2)
T8(V3)
T10(U4)
LINE 2

T3(W1)
T5(V2)
T9(W3)
T11(V4)
LINE 3

| | | |
|---|---|---|
| DRAWING REVISION: E | REVISION BY: SB | REV DATE/ © DATE: 08/04/2025 |
| REQUEST NUMBER: CR-0023654 | APPROVED BY: SBD | DATE: 08/04/2025 |
| REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED | | |

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| | | |
|---|---|---|
| DRAWN BY: RJW | marathon™ | |
| DATE: 02/11/2005 | | |
| APPROVED BY: GK | DESCRIPTION: CONNECTION DIAGRAM<br>12 LEAD - SINGLE VOLTAGE | |
| DATE: 02/11/2005 | | |
| REFERENCE | MATERIAL | PROCESS/FINISH |
| THIRD ANGLE PROJECTION | SIZE: A / DRAWING NUMBER: EE7300BH | SHEET: 1 OF 1 |

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# Data Sheet

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

marathon® electric

**284TSTDBD4008**

**Submittal**

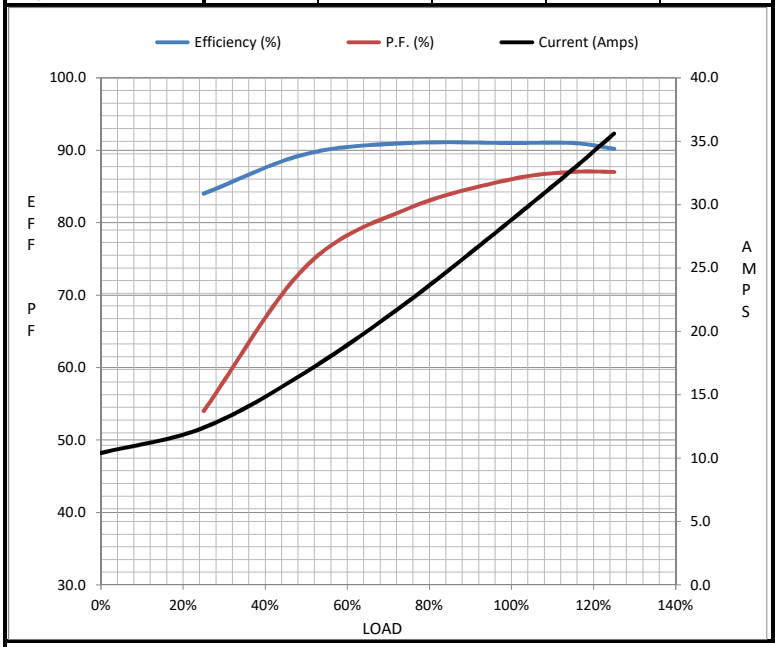
**Data @ 575 V**

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 10.4 | 12.4 | 16.8 | 22.4 | 28.8 | 32.8 | 35.6 | 164 | |
| Torque (ft-lb) | 0.00 | 11.0 | 22.0 | 33.0 | 44.5 | 51.0 | 55.5 | 62.0 | |
| RPM | 3600 | 3590 | 3580 | 3570 | 3560 | 3,550 | 3545 | 0 | |
| Efficiency (%) | | 84.0 | 89.5 | 91.0 | 91.0 | 91.0 | 90.2 | | |
| P.F. (%) | 8.0 | 54.0 | 74.0 | 82.0 | 86.0 | 87.0 | 87.0 | 36.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 1800 | 3350 | 3560 | 3600 |
| Current (Amps) | 164 | 144 | 100 | 28.8 | 10.4 |
| Torque (ft-lb) | 62.0 | 52.0 | 110 | 44.5 | 0.00 |




## Information Block

| | | |
|---|---|---|
| HP | 30.0 | |
| Sync. RPM | 3600 | |
| Frame | 284 | |
| Enclosure | DP | |
| Construction | TDB | |
| Voltage | 575 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | F | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 40 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 1,000 | feet |
| Rotor/Shaft wk² | 0.00 | Lb-Ft² |
| Ref Wdg | IE3L1802110 NONE | |
| Sound Pressure @ 1M | 999 | dBA |
| VFD Rating | NONE | |
| Outline Dwg | SS620709 | |
| Conn. Diag | EE7300BH | |
| Additional Specifications: | | |
| 0 | | |
| 0 | | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.3550 | 0.1480 | 1.0490 | 1.1830 | 32.6070 |

## Speed -Torque Curve

