marathon®

# Fire Pump Motors

**Model No:** 286TTDBD14042
**Catalog No:** U1054

Fire Pump Motor, 30 HP, 3 Ph, 60 Hz, 190/380-400 V, 1800 RPM, 286T Frame, DP

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# Product Information Packet: Model No: 286TTDBD14042, Catalog No: U1054 Fire Pump Motor, 30 HP, 3 Ph, 60 Hz, 190/380-400 V, 1800 RPM, 286T Frame, DP

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **30 Hp** |
| Output KW | **22.4 kW** | Voltage | **190/380-400 V** |
| Speed | **1770 r/min** | Synchronous RPM | **1800 r/min** |
| Service Factor | **1.15** | Frame | **286T** |
| Enclosure | **Drip Proof** | Thermal Protection | **No Protection** |
| Efficiency | **92.4 %** | Ambient Temperature | **50 °C** |
| Frequency | **60 Hz** | Current | **87.0/43.0-41.0 A** |
| Power Factor | **84** | 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 | **23** | Number of Speeds | **1** |

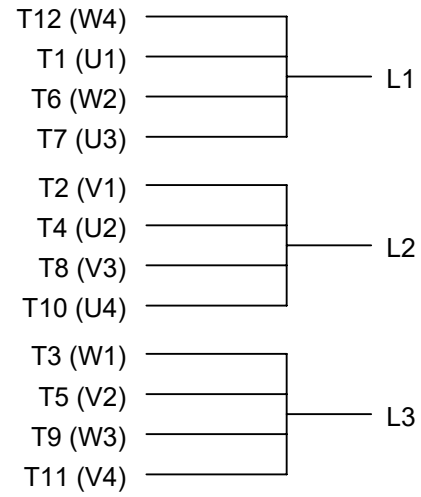
## Technical Specifications

| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Part Wdg Start Low Volt Only & Wye Start Delta Run** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **.43 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Rolled Steel** |
| Shaft Type | **T** | Overall Length | **27.09 in** |
| Frame Length | **13.97 in** | Shaft Diameter | **1 7/8 in** |
| Shaft Extension | **4.62 in** | Assembly/Box Mounting | **F1/F2 Capable** |

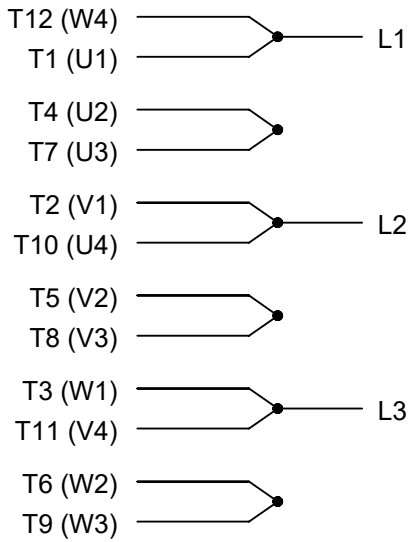
## Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **EE7308AA** | Outline Drawing | **SS620687-286T** |

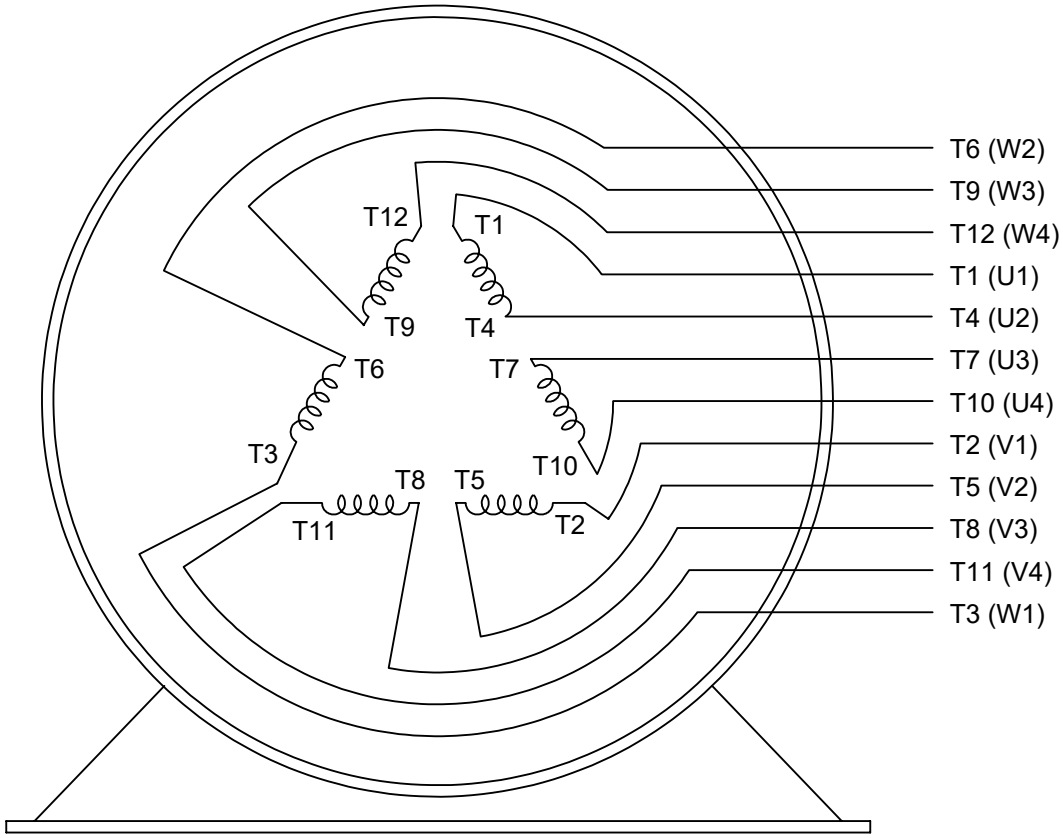
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LOW VOLTAGE




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:** 12/13/2018
**Customer:**
**Attention:**
**Submitted by:** FAREEDA DUDEKULA

286TTDBD14042

**Submittal**

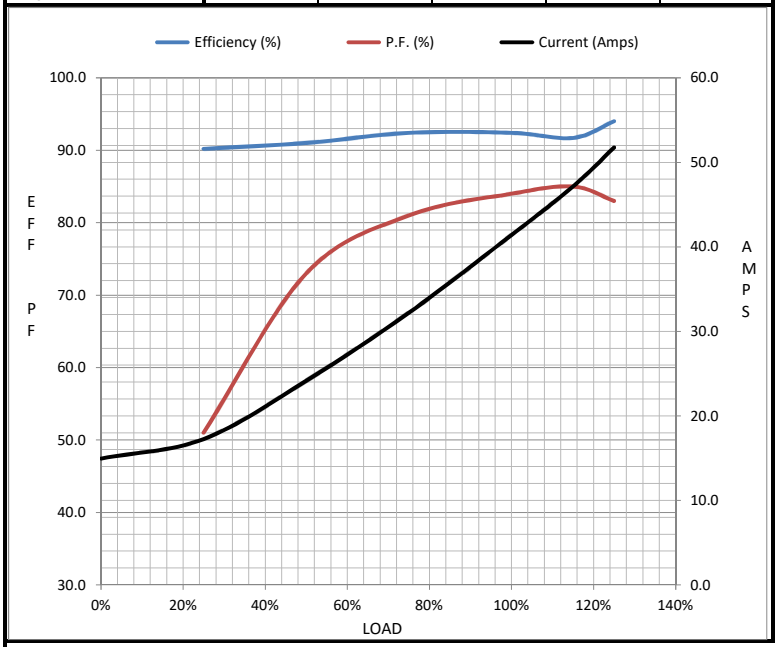
Data @ 400 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 15.0 | 17.3 | 24.2 | 32.2 | 41.4 | 47.2 | 51.8 | 230 | |
| Torque (ft-lb) | 0.00 | 22.2 | 44.4 | 66.6 | 88.8 | 102 | 111 | 150 | |
| RPM | 1800 | 1792 | 1785 | 1778 | 1770 | 1,765 | 1760 | 0 | |
| Efficiency (%) | | 90.2 | 91.0 | 92.4 | 92.4 | 91.7 | 94.0 | | |
| P.F. (%) | 4.5 | 51.0 | 73.0 | 81.0 | 84.0 | 85.0 | 83.0 | 42.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 900 | 1675 | 1770 | 1800 |
| Current (Amps) | 230 | 201 | 138 | 41.4 | 15.0 |
| Torque (ft-lb) | 150 | 130 | 200 | 88.8 | 0.00 |




## Information Block

| | | |
|---|---|---|
| HP | 30.0 | |
| Sync. RPM | 1800 | |
| Frame | 286 | |
| Enclosure | DP | |
| Construction | TDB | |
| Voltage | 190/380-400 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | F | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 0 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 1,000 | feet |
| Rotor/Shaft wk² | 0.00 | Lb-Ft² |
| Ref Wdg | IE3L1804111 NONE | |
| Sound Pressure @ 1M | 999 | dBA |
| VFD Rating | NONE | |
| Outline Dwg | SS620687 | |
| Conn. Diag | EE7308AA | |

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.2000 | 0.0930 | 0.5440 | 0.7370 | 15.7010 |

