marathon®

# General Purpose Motors

**Model No:** 447TSTDCD6002
**Catalog No:** GT00023

General Purpose Motor, 300 & 250 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 RPM, 447TS Frame, DP

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**Product Information Packet: Model No: 447TSTDCD6002, Catalog No: GT00023 General Purpose Motor, 300 & 250 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 RPM, 447TS Frame, DP**

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **300 & 250 Hp** |
| Output KW | **224.0 & 187.0 kW** | Voltage | **460 & 380 V** |
| Speed | **3581 & 2980 r/min** | Synchronous RPM | **3600 & 3000 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **447TS** |
| Enclosure | **Drip Proof** | Thermal Protection | **No Protection** |
| Efficiency | **95.4 & 95.4 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **321 & 323 A** |
| Power Factor | **91.3** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **6314** |
| Opp Drive End Bearing Size | **6314** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **22** | Number of Speeds | **1** |

## Technical Specifications

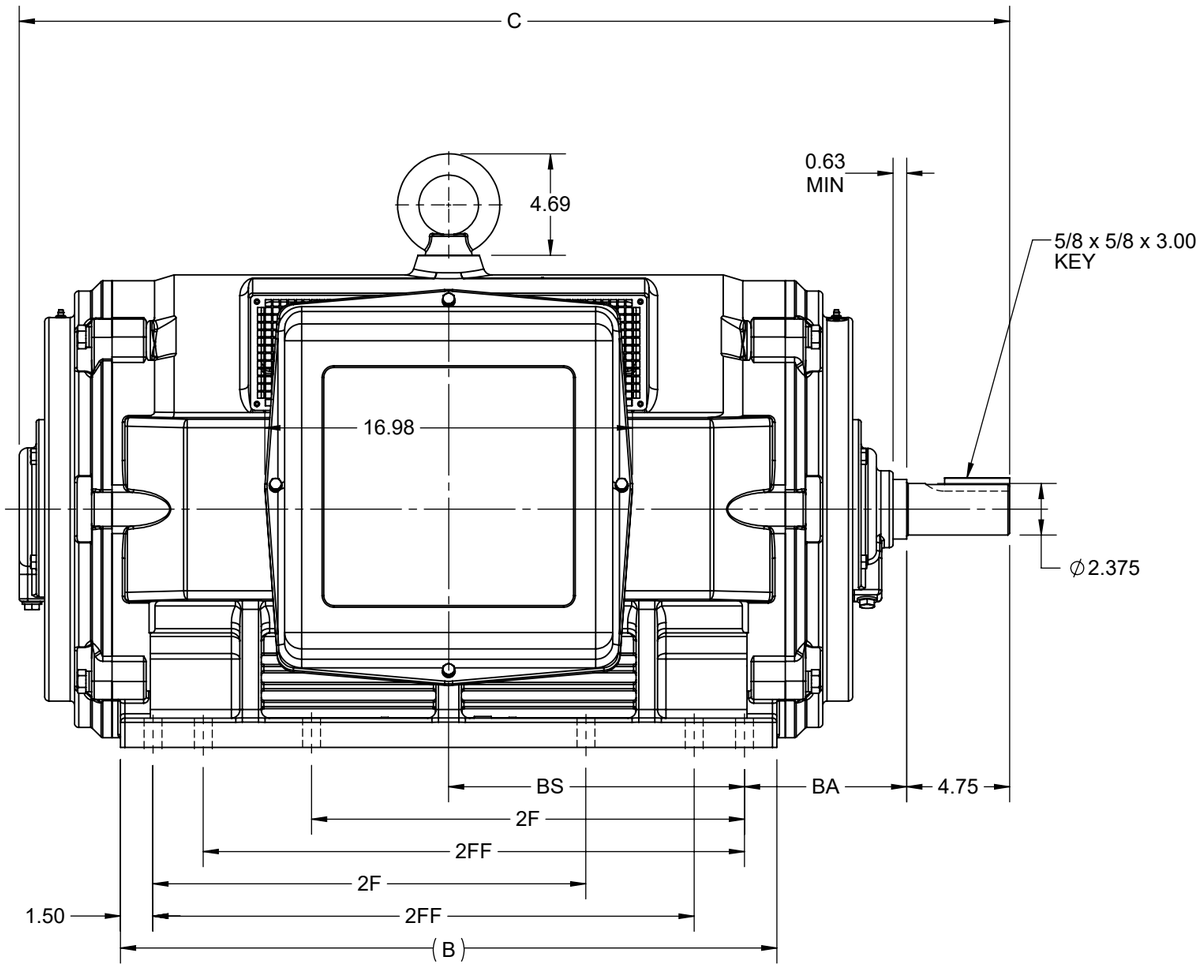
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Part Wdg Start & Wye Start Delta Run Or Inverter** |
| Poles | **2** | Rotation | **Reversible** |
| Resistance Main | **.0129 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **TS** | Shaft Diameter | **2.375 in** |
| Assembly/Box Mounting | **F1/F2 Capable** | Inverter Load | **Variable 10:1** |

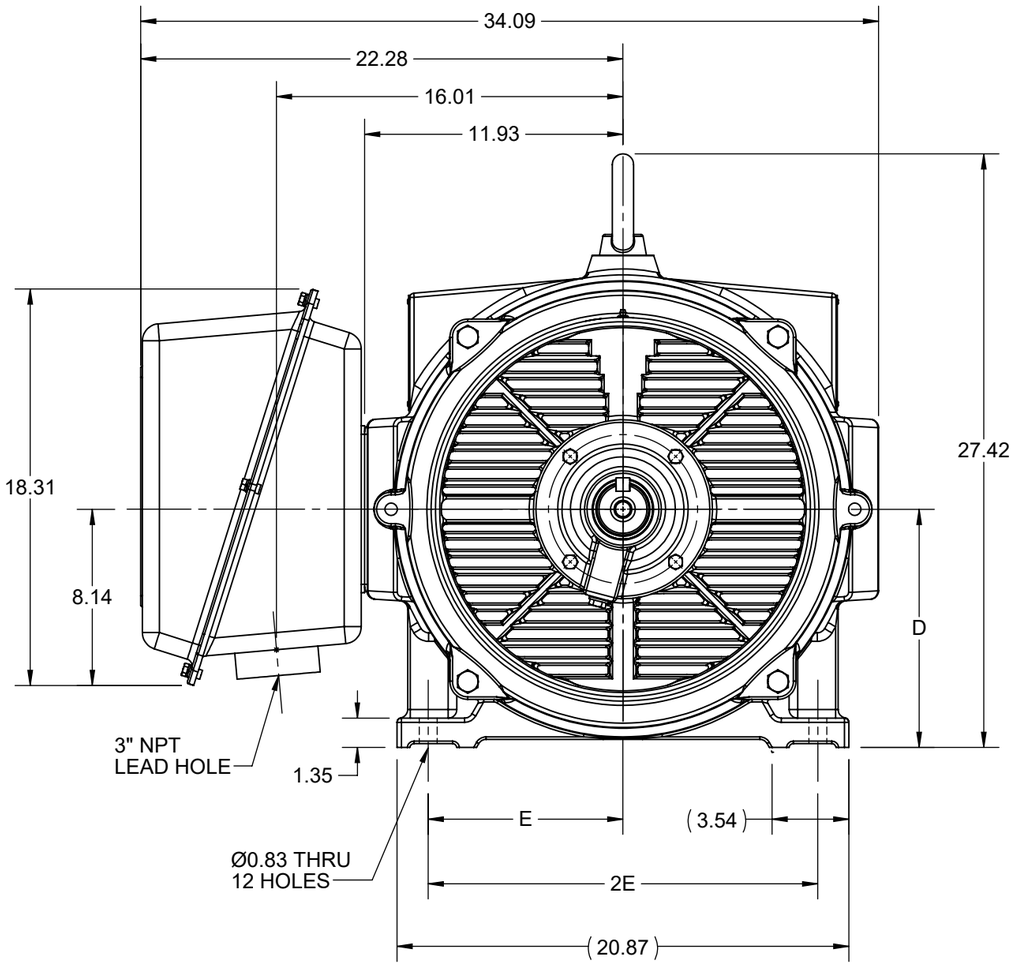
## Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **EE7300BH** | Outline Drawing | **SS620756-200** |

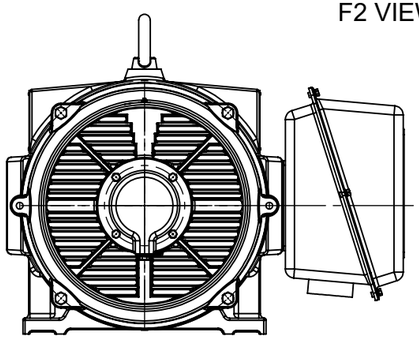
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| DASH NO. | B | C | D | E | 2E | 2F | 2FF | BA | BS | MOUNTING | FRAME |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 25.20 | 40.64 | 11.00 | 9.00 | 18.00 | 14.50 | 16.50 | 7.50 | 11.10 | F1 OR F2 | 444/445TS |
| 200 | 30.31 | 45.76 | | | | 20.00 | 25.00 | | 13.66 | | 447/449TS |




F2 VIEW



| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| D | SB | 07/25/2025 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0023600 | SBD | 07/25/2025 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

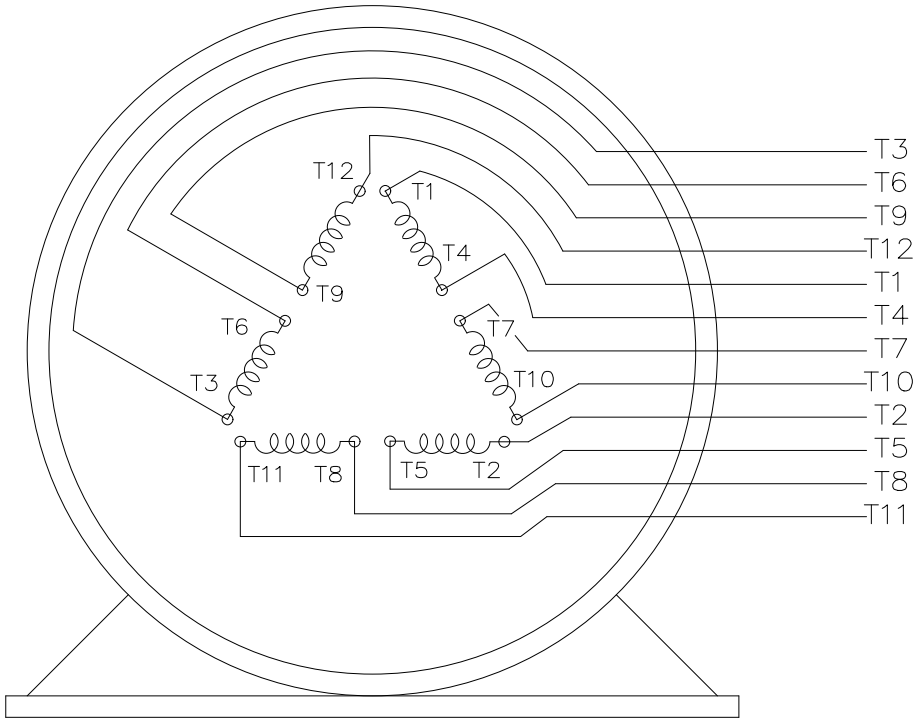
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| DRAWN BY | DESCRIPTION |
|---|---|
| ZXW | OUTLINE |
| DATE | 444/445/447/449TS FR NEMA ODP CAST IRON |
| 21/07/2016 | |
| APPROVED BY | |
| DATE | |
| REFERENCE | MATERIAL / PROCESS/FINISH |
| THIRD ANGLE PROJECTION | SIZE B / DRAWING NUMBER SS620756 / SHEET 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 |

# Data Sheet

**Date:** 7/27/2022
**Customer:**
**Attention:**
**Submitted by:**

marathon® Motors

447TSTDCD6002

**Submittal**

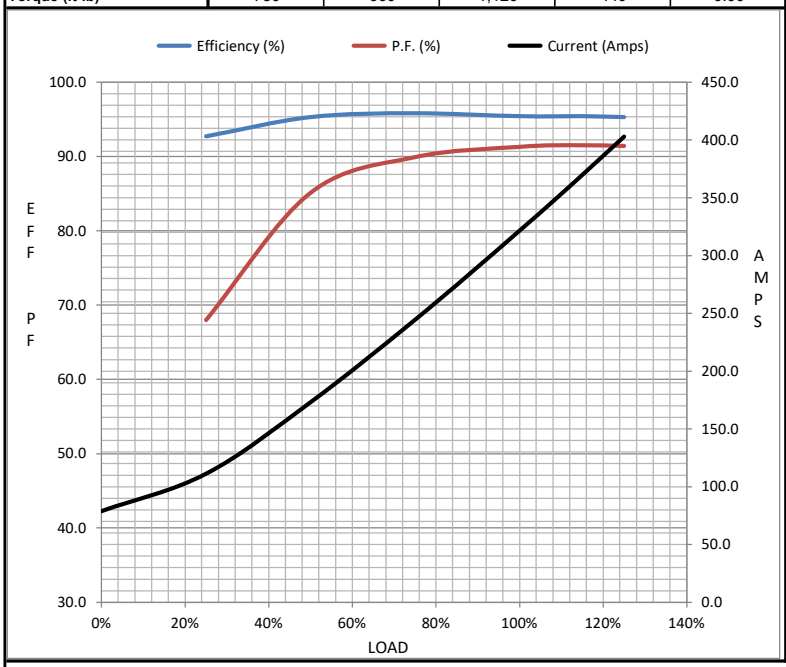
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 78.8 | 111 | 173 | 244 | 321 | 370 | 403 | 2,254 | |
| Torque (ft-lb) | 0.00 | 110 | 219 | 329 | 440 | 506 | 550 | 780 | |
| RPM | 3600 | 3595 | 3591 | 3586 | 3581 | 3,578 | 3575 | 0 | |
| Efficiency (%) | | 92.7 | 95.3 | 95.8 | 95.4 | 95.4 | 95.3 | | |
| P.F. (%) | 6.4 | 68.0 | 85.1 | 89.9 | 91.3 | 91.5 | 91.4 | 30.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 1800 | 3481 | 3581 | 3600 |
| Current (Amps) | 2,254 | 1,800 | 1,273 | 321 | 78.8 |
| Torque (ft-lb) | 780 | 660 | 1,120 | 440 | 0.00 |




## Information Block

| | | |
|---|---|---|
| HP | 300.0 | |
| Sync. RPM | 3600 | |
| Frame | 447 | |
| Enclosure | DP | |
| Construction | TDC | |
| Voltage | 460#380 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | G | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 65 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 3,300 | feet |
| Rotor/Shaft wk² | 40.0 | Lb-Ft² |
| Ref Wdg | HA32802025 NONE | |
| Sound Pressure @ 1M | 86 | dBA |
| VFD Rating | VARIABLE 10:1 | |
| Outline Dwg | | |
| Conn. Diag | EE7300BH | |

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.0080 | 0.0040 | 0.0640 | 0.0950 | 3.3610 |

## Speed -Torque Curve

