marathon®

# Severe Duty Motors

**Model No:** 444TTFCD6635
**Catalog No:** E1249

Severe Duty Motor, 125 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 444T Frame, TEFC

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## Product Information Packet: Model No: 444TTFCD6635, Catalog No: E1249 Severe Duty Motor, 125 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 444T Frame, TEFC

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **125 Hp** |
| Output KW | **93.0 kW** | Voltage | **460 V** |
| Speed | **1790 r/min** | Synchronous RPM | **1800 r/min** |
| Service Factor | **1.15** | Frame | **444T** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **95.4 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **140.0 A** |
| Power Factor | **87.5** | Duty | **Continuous** |
| Insulation Class | **H** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **NU319** |
| 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

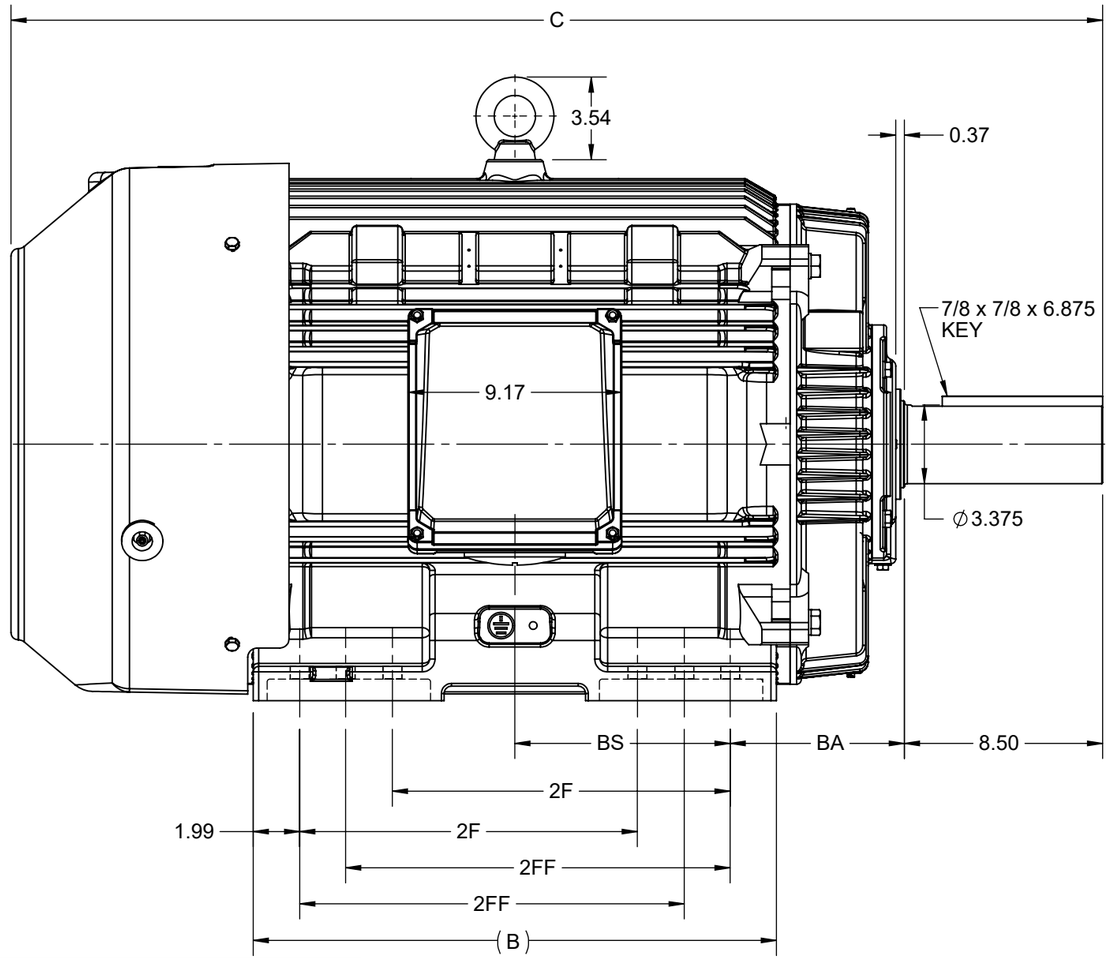
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Part Wdg Start & Wye Start Delta Run Or Inverter** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **.0374 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Roller** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **T** | Shaft Diameter | **3.375 in** |
| Assembly/Box Mounting | **F1/F2 Capable** | Inverter Load | **Constant 2:1/Variable 10:1** |

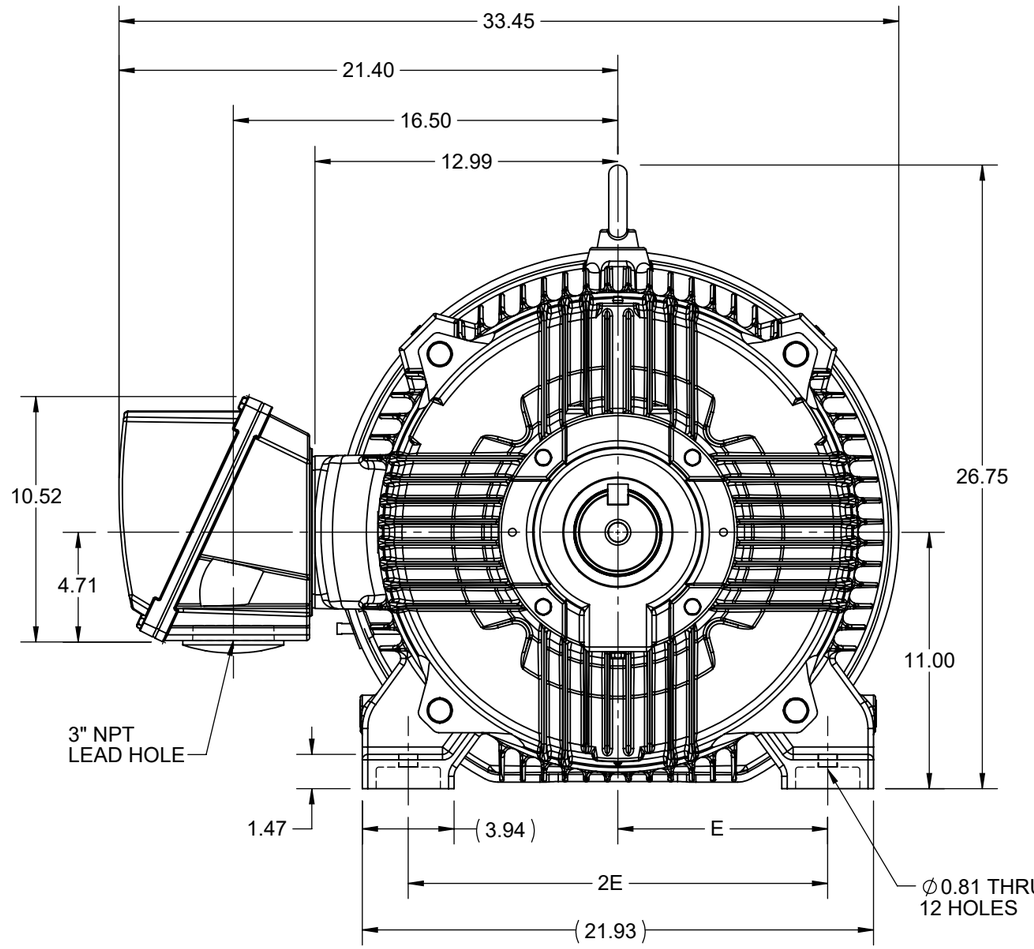
### Drawings

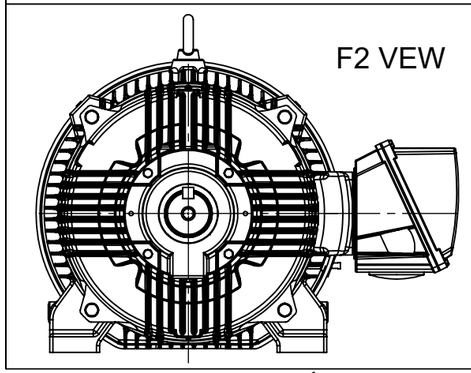
| | | | |
|---|---|---|---|
| Connection Drawing | **EE7300BH** | Outline Drawing | **SS557668** |

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| B | C | E | 2E | 2F | 2FF | BA | BS | MOUNTING |
|---|---|---|---|---|---|---|---|---|
| 22.44 | 46.83 | 9.00 | 18.00 | 14.50 | 16.50 | 7.50 | 9.24 | F1 OR F2 |




| | | |
|---|---|---|
| DRAWING REVISION: D | REVISION BY: SB | REV DATE/© DATE: 07/23/2025 |
| REQUEST NUMBER: CR-0023556 | APPROVED BY: SBD | DATE: 07/23/2025 |
| REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED | | |

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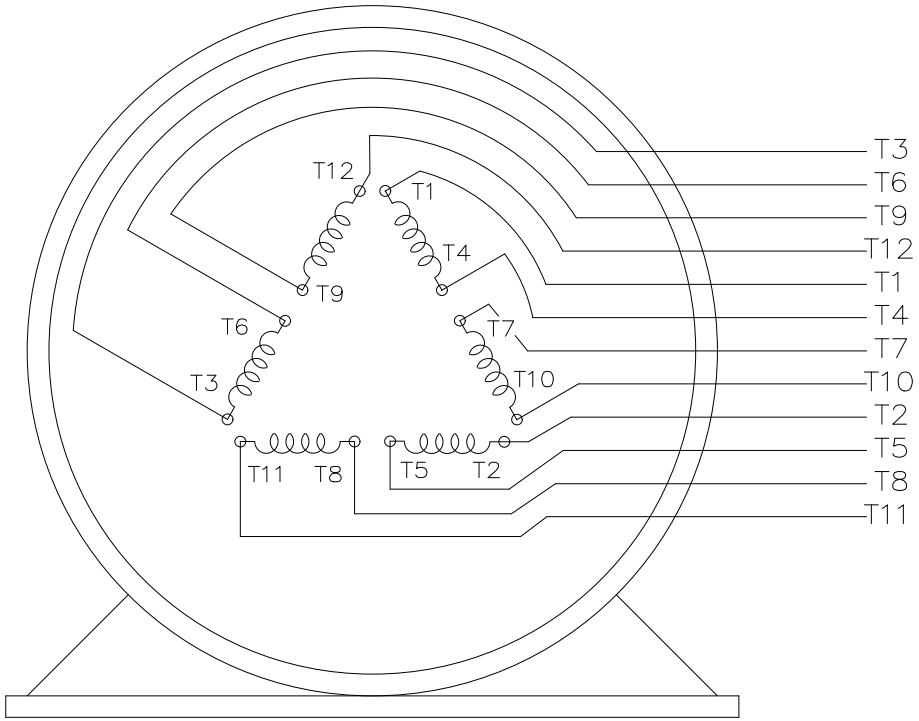
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| | | |
|---|---|---|
| DRAWN BY: BISWA | | |
| DATE: 24/12/2018 | | |
| APPROVED BY: SBD | | |
| DATE: 24/12/2018 | | |
| REFERENCE | MATERIAL | PROCESS/FINISH |
| THIRD ANGLE PROJECTION | SIZE: B / DRAWING NUMBER: SS557668 | SHEET: 1 OF 1 |

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DESCRIPTION
OUTLINE
444/445T FR-NEMA-SD & IEEE841

Uncontrolled Copy




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

444TTFCD6635

**Submittal**

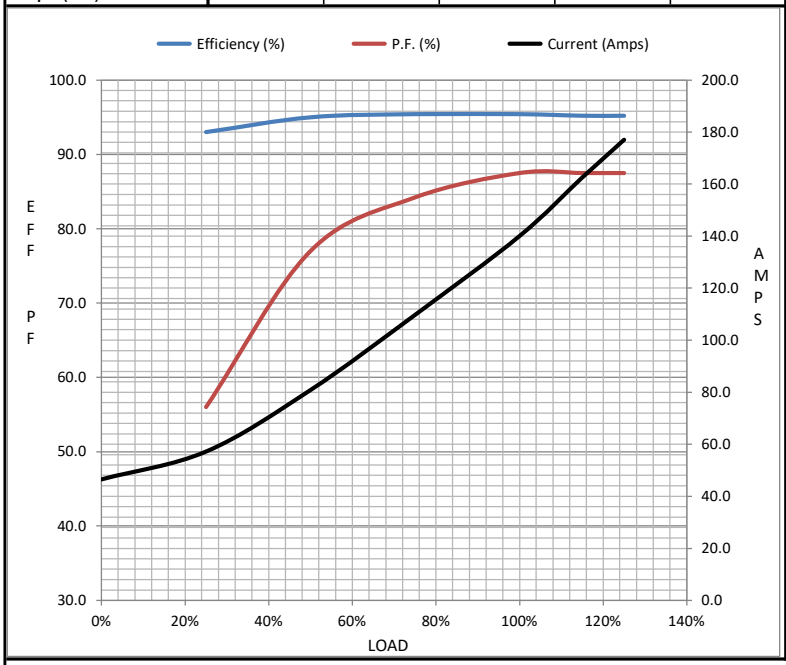
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 46.5 | 57.2 | 80.8 | 110 | 140 | 163 | 177 | 905 | |
| Torque (ft-lb) | 0.00 | 91.5 | 183 | 275 | 367 | 423 | 460 | 679 | |
| RPM | 1800 | 1796 | 1794 | 1792 | 1790 | 1,788 | 1786 | 0 | |
| Efficiency (%) | | 93.0 | 95.0 | 95.4 | 95.4 | 95.2 | 95.2 | | |
| P.F. (%) | 5.0 | 56.0 | 77.0 | 84.2 | 87.5 | 87.5 | 87.5 | 36.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 900 | 1755 | 1790 | 1800 |
| Current (Amps) | 905 | 720 | 510 | 140 | 46.5 |
| Torque (ft-lb) | 679 | 570 | 991 | 367 | 0.00 |




## Information Block

| | | |
|---|---|---|
| HP | 125.0 | |
| Sync. RPM | 1800 | |
| Frame | 444 | |
| Enclosure | TEFC | |
| Construction | TFC | |
| Voltage | 460 | 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 | 53.9 | Lb-Ft² |
| Ref Wdg | HA32804010 NONE | |
| Sound Pressure @ 1M | 75 | dBA |
| VFD Rating | CONSTANT 2:1/VARIABLE 10:1 | |
| Outline Dwg | | |
| Conn. Diag | EE7300BH | |

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.0230 | 0.0110 | 0.1520 | 0.2790 | 5.7890 |

## Speed -Torque Curve

