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# Severe Duty Motors

**Model No:** 445THFCD9102
**Catalog No:** W609A

Severe Duty Motor, 125 HP, 3 Ph, 60 Hz, 460 V, 900 RPM, 445T Frame, TEFC

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# Product Information Packet: Model No: 445THFCD9102, Catalog No: W609A  Severe Duty Motor, 125 HP, 3 Ph, 60 Hz, 460 V, 900 RPM, 445T Frame, TEFC

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **125 Hp** |
| Output KW | **93.0 kW** | Voltage | **460 V** |
| Speed | **890 r/min** | Synchronous RPM | **900 r/min** |
| Service Factor | **1.15** | Frame | **445T** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **94.1 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **162.0 A** |
| Power Factor | **76.2** | Duty | **Continuous** |
| Insulation Class | **H** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **6319** |
| Opp Drive End Bearing Size | **6317** | UL | **Listed** |
| CSA | **Y** | CE | **Y** |
| IP Code | **56** | Number of Speeds | **1** |
| Hazardous Location | **DIVISION 2 T2B** | | |

## Technical Specifications

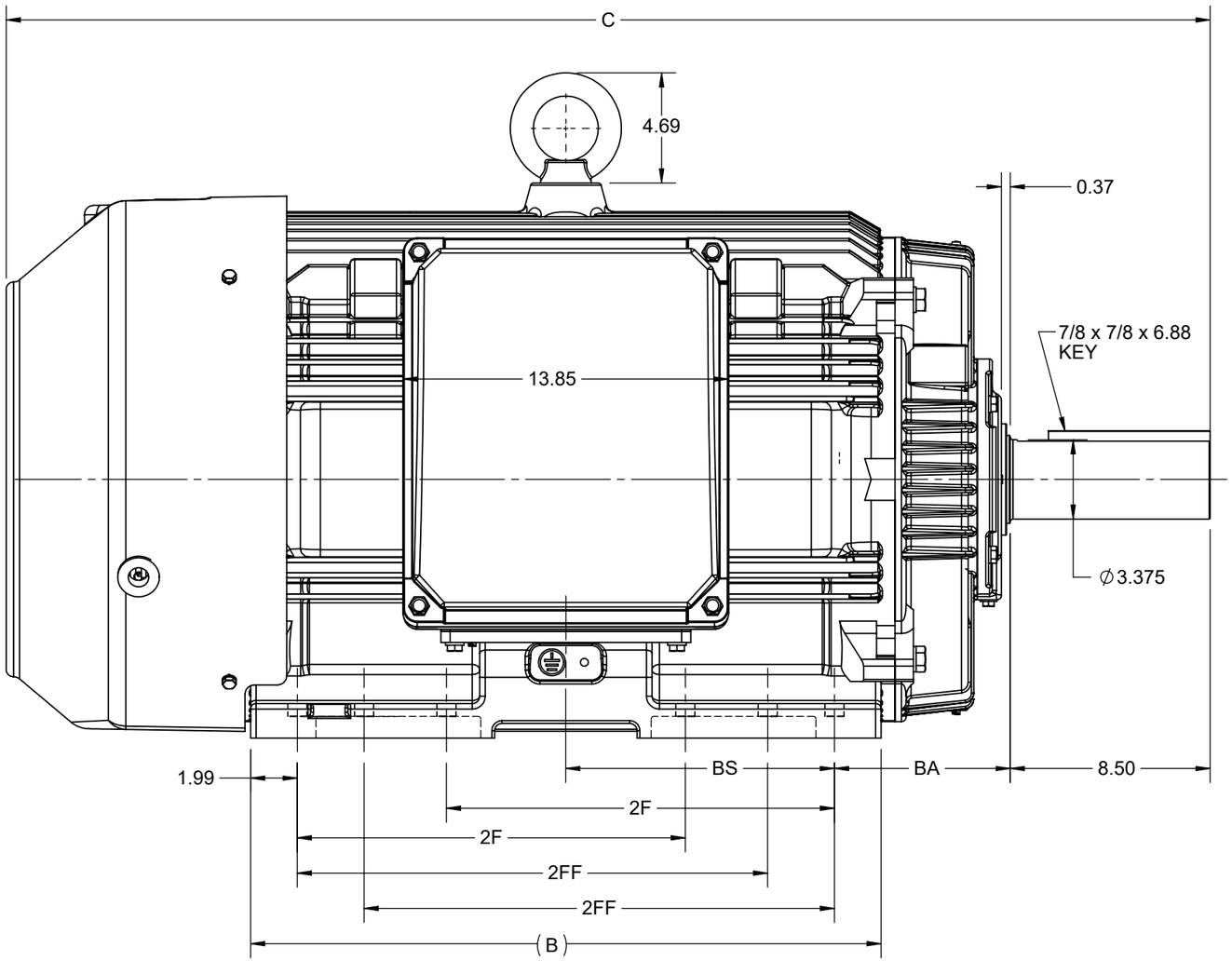
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Line Or Inverter** |
| Poles | **8** | Rotation | **Reversible** |
| Resistance Main | **.0317 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| 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** |

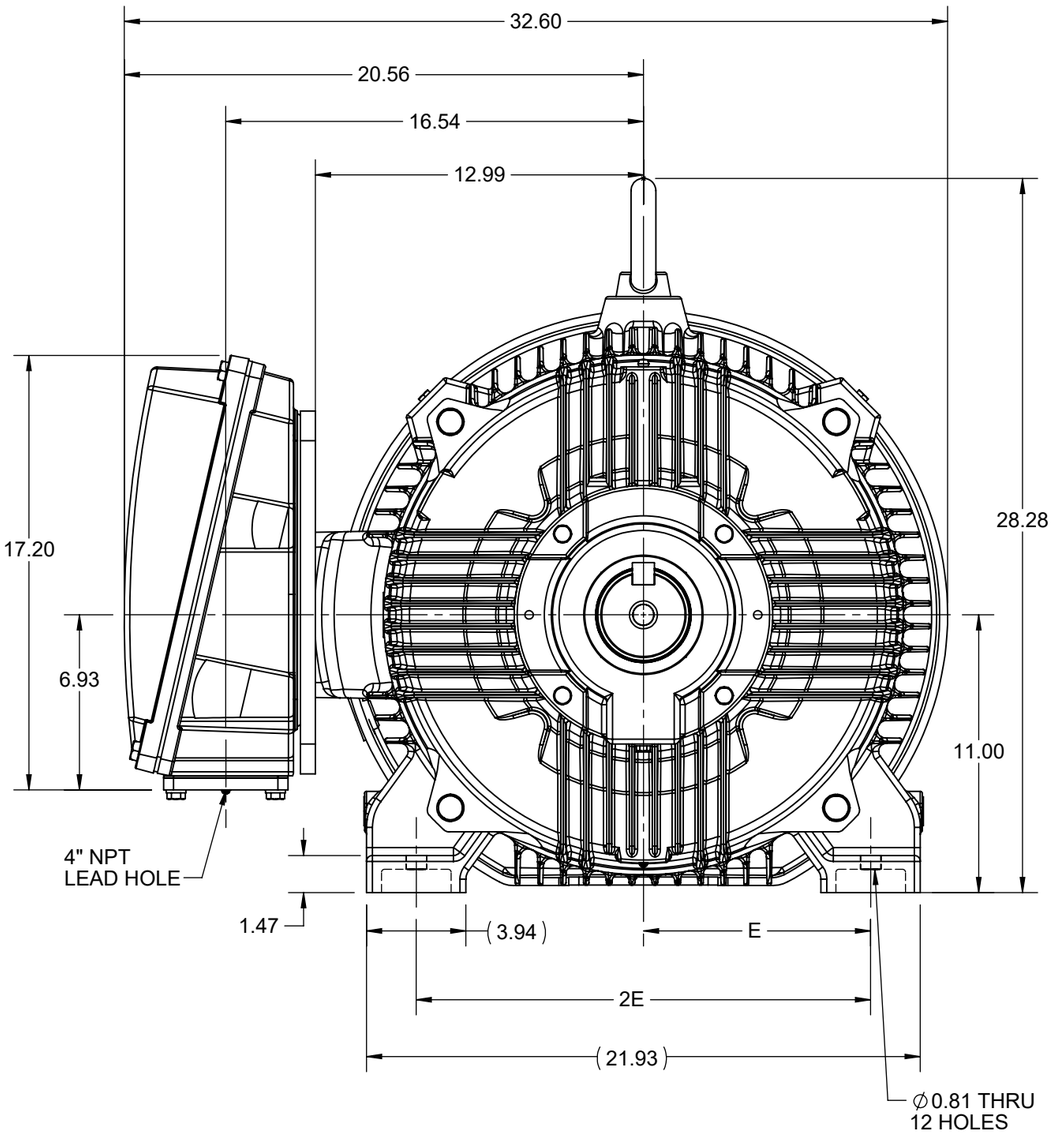
## Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **EE7300** | Outline Drawing | **SS557888** |

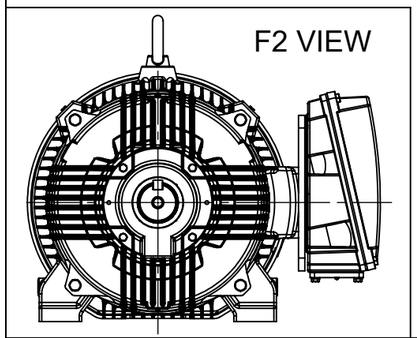
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| B | C | E | 2E | 2F | 2FF | BA | BS | MOUNTING |
|---|---|---|---|---|---|---|---|---|
| 26.81 | 51.20 | 9.00 | 18.00 | 16.50 | 20.00 | 7.50 | 11.42 | F1 OR F2 |




F2 VIEW



| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| D | SB | 07/24/2025 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0023556 | SBD | 07/24/2025 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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| DRAWN BY | BISWA |
|---|---|
| DATE | 23/05/2019 |
| APPROVED BY | SBD |
| DATE | 23/05/2019 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
OUTLINE
445/447T FR-NEMA-SD & IEEE841

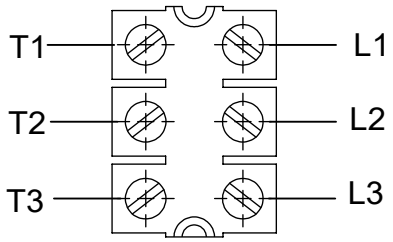
MATERIAL | PROCESS/FINISH

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| B | SS557888 | 1 OF 1 |

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

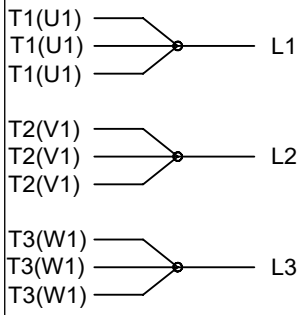




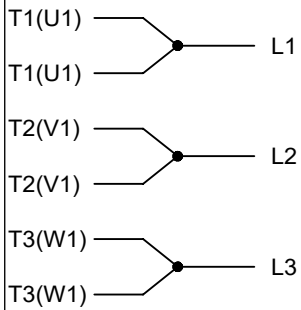


VIEW OF TERMINAL END

IF MOTOR HAS
9 LEADS




IF MOTOR HAS
6 LEADS




A-9806 DECAL

OPTIONAL CORD
CONNECTION

| | |
|---|---|
| L1 | WHITE |
| L2 | RED |
| L3 | BLACK |

| | | |
|---|---|---|
| DRAWING REVISION: AD | REVISION BY: SB | REV DATE/© DATE: 08/01/2025 |
| REQUEST NUMBER: CR-0023654 | APPROVED BY: SBD | DATE: 08/01/2025 |

REQUEST NUMBER DESCRIPTION
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| | |
|---|---|
| DRAWN BY: DA | |
| DATE: 03-26-1993 | |
| APPROVED BY: TB | |
| DATE: 03-26-1993 | |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

| MATERIAL | PROCESS/FINISH |
|---|---|

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | EE7300 | 1 OF 1 |