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# Severe Duty Motors

**Model No:** 449THFCD9037
**Catalog No:** W619A-P

Severe Duty Motor, 200 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 447/449T Frame, TEFC

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# Product Information Packet: Model No: 449THFCD9037, Catalog No: W619A-P  Severe Duty Motor, 200 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 447/449T Frame, TEFC

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **200 Hp** |
| Output KW | **149.0 kW** | Voltage | **460 V** |
| Speed | **1790 r/min** | Synchronous RPM | **1800 r/min** |
| Service Factor | **1.15** | Frame | **447/449T** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **96.5 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **219.0 A** |
| Power Factor | **88.5** | Duty | **Continuous** |
| Insulation Class | **H** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **6319** |
| Opp Drive End Bearing Size | **6317** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **56** | Number of Speeds | **1** |

## Technical Specifications

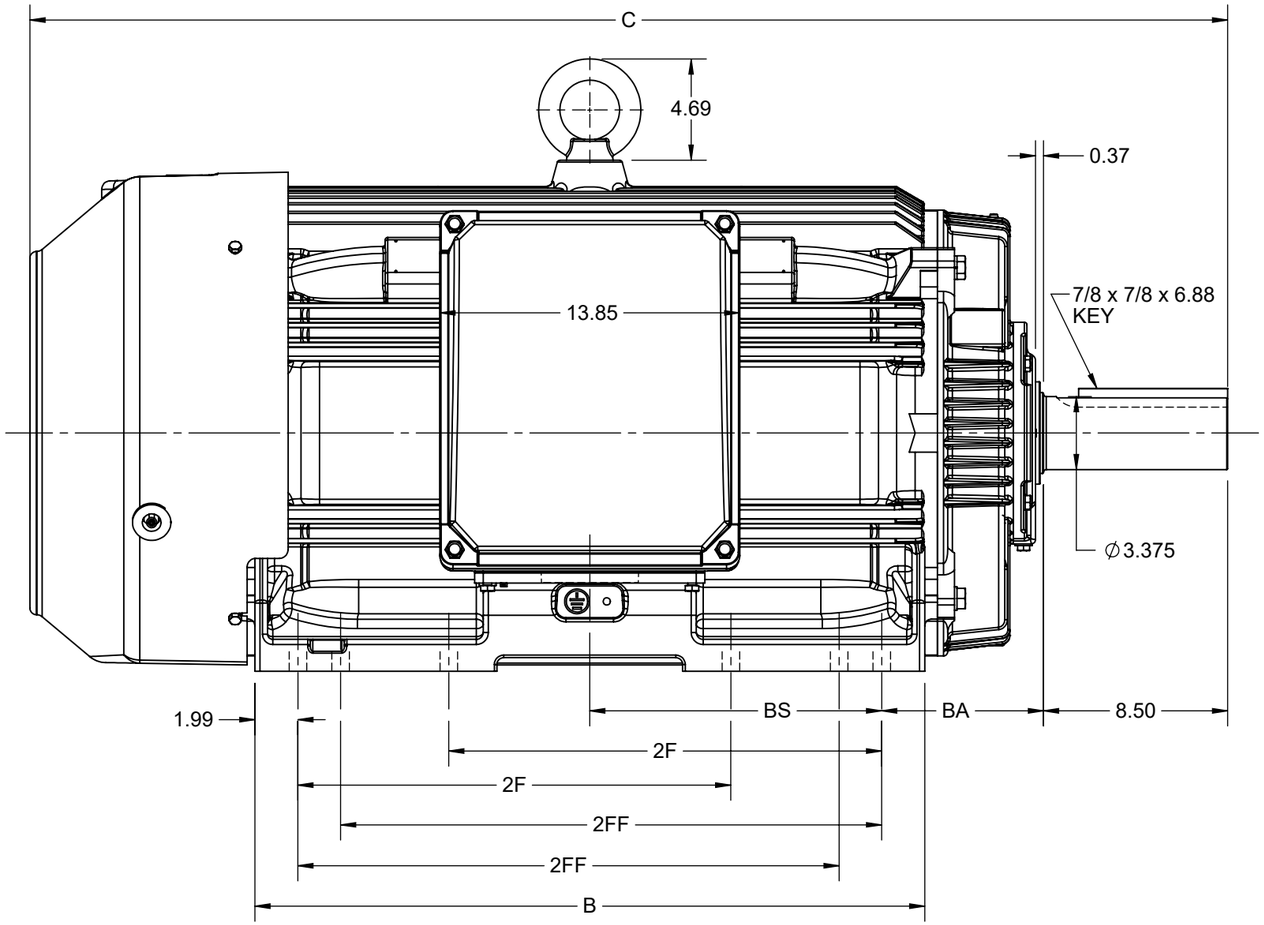
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Line Or Inverter** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **.0184 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| 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** |

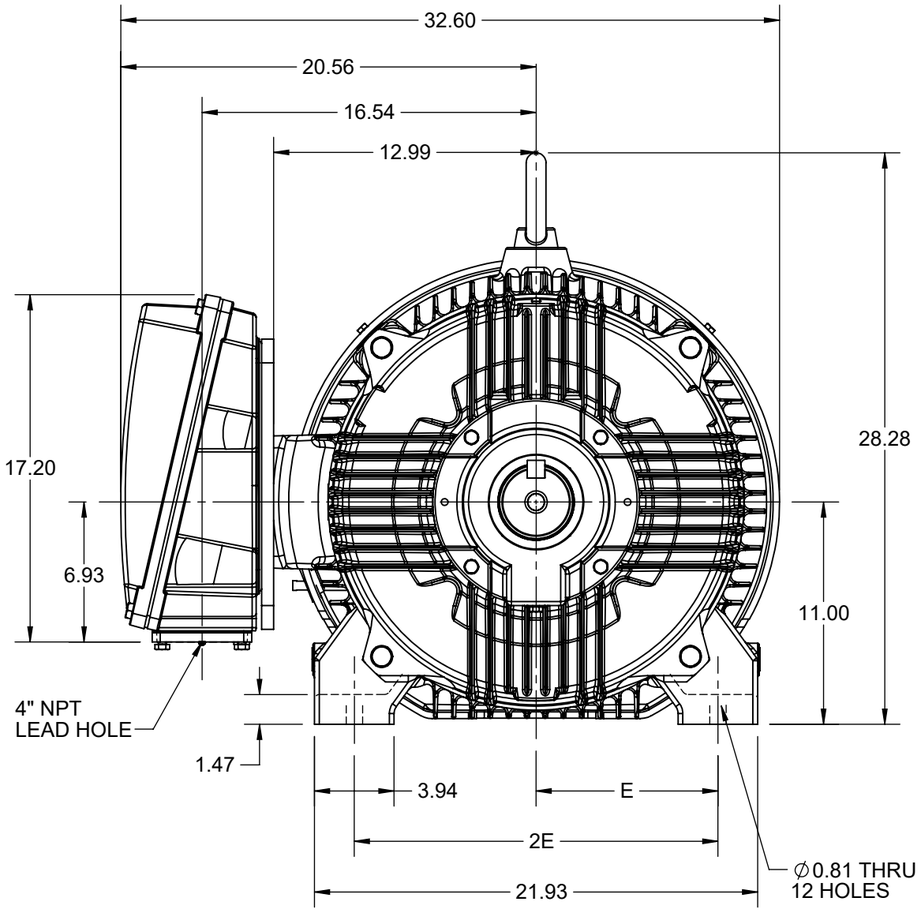
## Drawings

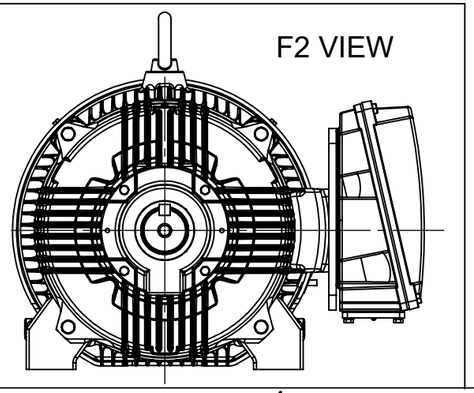
| | | | |
|---|---|---|---|
| Connection Drawing | **EE7300** | Outline Drawing | **SS557671** |

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| B | C | E | 2E | 2F | 2FF | BA | BS | MOUNTING |
|---|---|---|---|---|---|---|---|---|
| 30.94 | 55.33 | 9.00 | 18.00 | 20.00 | 25.00 | 7.50 | 13.48 | F1 OR F2 |




| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| C | SB | 07/23/2025 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0023556 | SBD | 07/23/2025 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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ARE FOR REFERENCE ONLY

| | |
|---|---|
| DRAWN BY | BISWA |
| DATE | 04/05/2019 |
| APPROVED BY | SBD |
| DATE | 04/05/2019 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
OUTLINE
447/449T FR-SD & IEEE 841

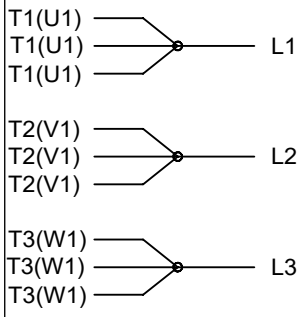
MATERIAL | PROCESS/FINISH

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| B | SS557671 | 1 OF 1 |

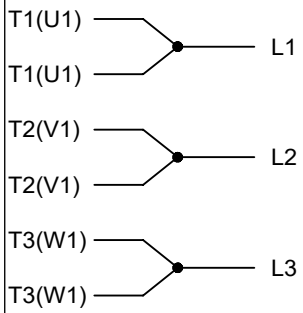
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

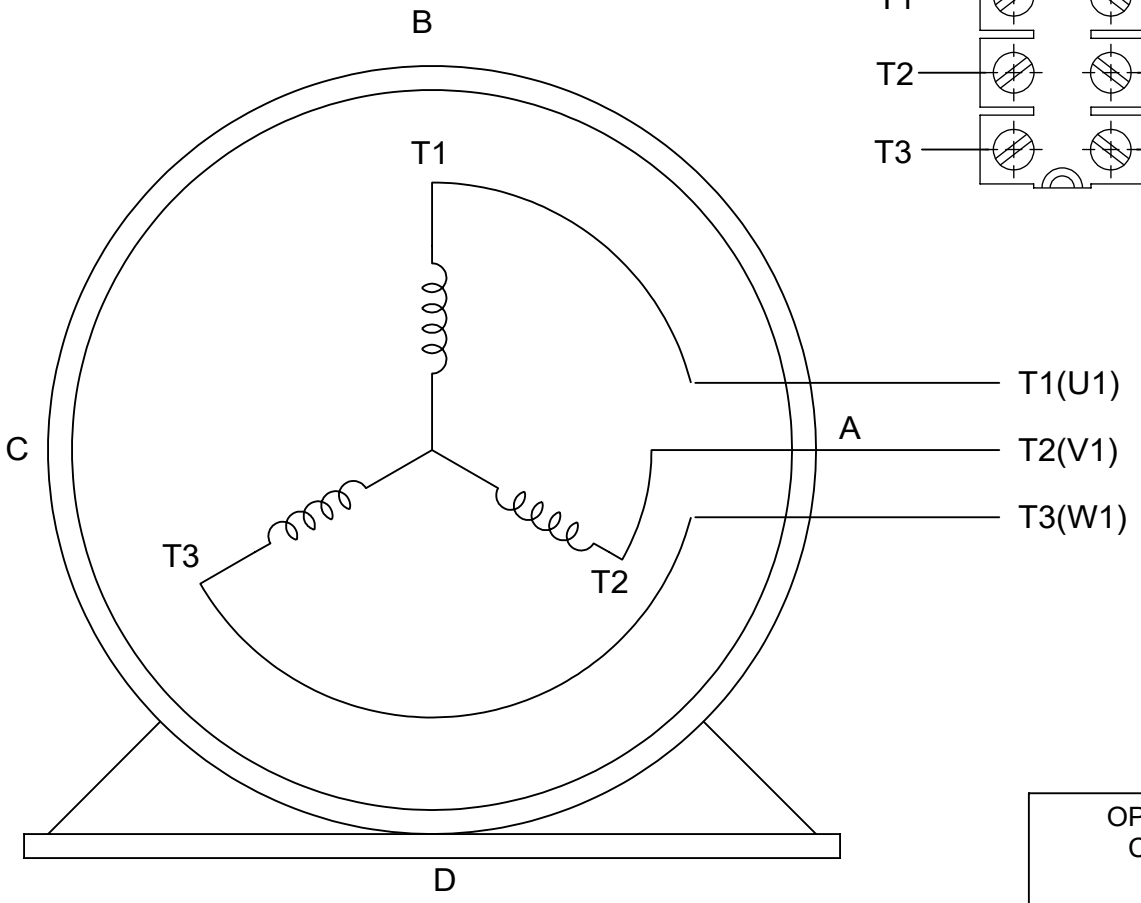
IF MOTOR HAS
9 LEADS




IF MOTOR HAS
6 LEADS




A-9806 DECAL




VIEW OF TERMINAL END

TERMINAL BLOCK WHEN SPECIFIED




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
DRAWING TITLE BLOCK UPDATED

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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 |

# Data Sheet

**Date:** 12/24/2020
**Customer:**
**Attention:**
**Submitted by:**

marathon® Motors

449THFCD9037

**Submittal**

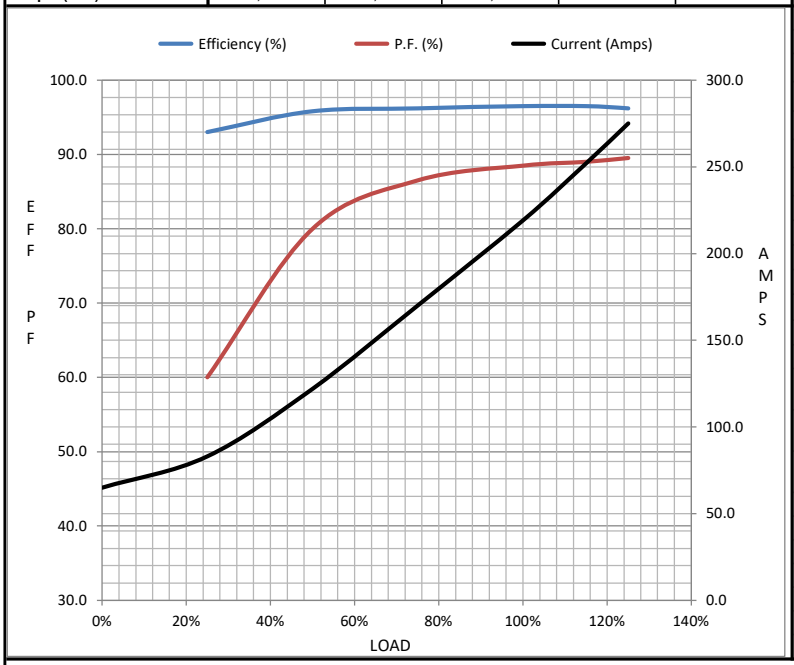
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 65.0 | 83.0 | 122 | 170 | 219 | 252 | 275 | 1,450 | |
| Torque (ft-lb) | 0.00 | 146 | 293 | 440 | 587 | 676 | 735 | 1,256 | |
| RPM | 1800 | 1798 | 1795 | 1792 | 1790 | 1,788 | 1788 | 0 | |
| Efficiency (%) | | 93.0 | 95.8 | 96.2 | 96.5 | 96.5 | 96.2 | | |
| P.F. (%) | 4.5 | 60.0 | 80.0 | 86.5 | 88.5 | 89.0 | 89.5 | 38.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 900 | 1750 | 1790 | 1800 |
| Current (Amps) | 1,450 | 1,160 | 850 | 219 | 65.0 |
| Torque (ft-lb) | 1,256 | 1,050 | 1,775 | 587 | 0.00 |

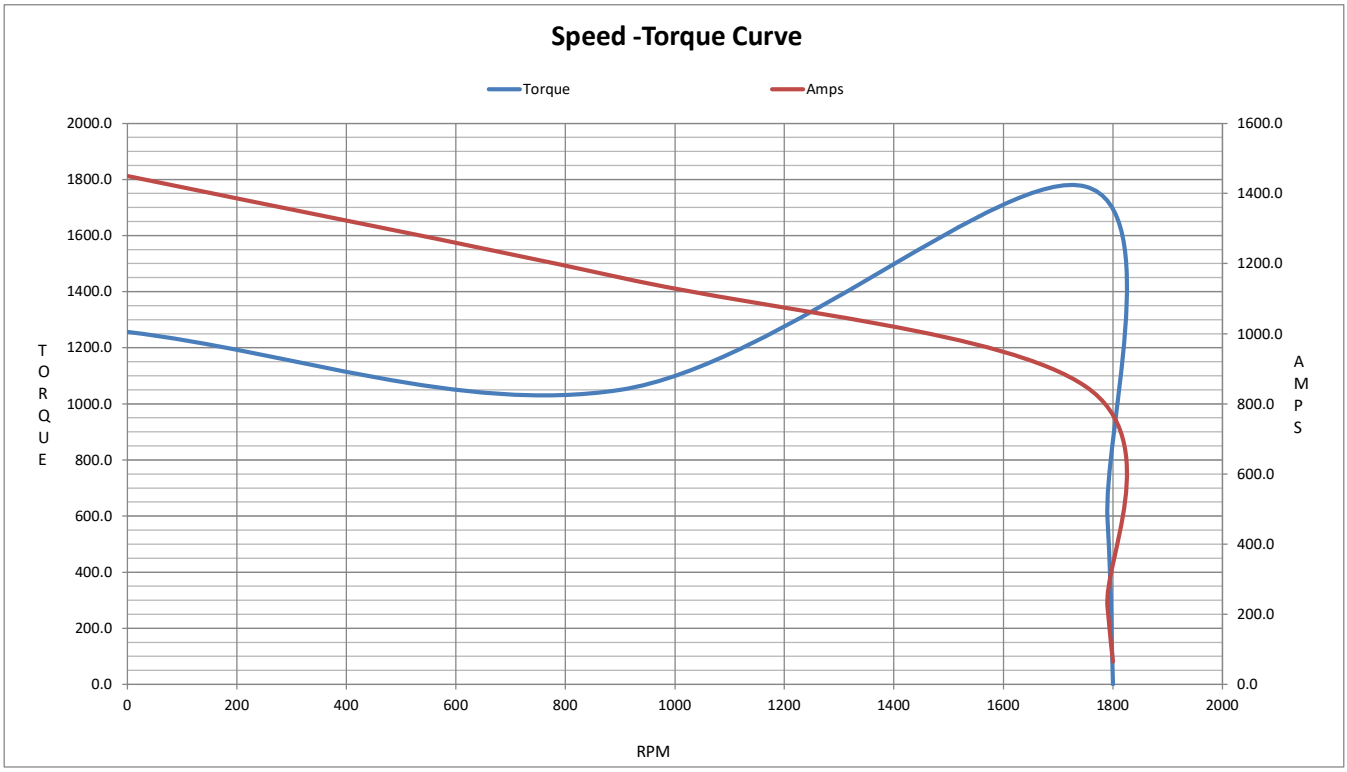



## Information Block

| | | |
|---|---|---|
| HP | 200.0 | |
| Sync. RPM | 1800 | |
| Frame | 449 | |
| Enclosure | TEFC | |
| Construction | TFC | |
| Voltage | 460 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | G | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 55 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 3,300 | feet |
| Rotor/Shaft wk² | 88.0 | Lb-Ft² |
| Ref Wdg | HA32804009 NONE | |
| Sound Pressure @ 1M | 80 | dBA |
| VFD Rating | CONSTANT 2:1/VARIABLE 10:1 | |
| Outline Dwg | SS557671-447/449T | |
| Conn. Diag | EE7300 | |
| Additional Specifications: | | |
| 0 | | |
| 0 | | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.0120 | 0.0070 | 0.0810 | 0.1850 | 3.8340 |



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

# CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7300
OUTLINE: SS557671-447/449T
WINDING: HA32804009 NONE 5
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 449THFCD9037
CAT #: W619-P
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|---|
| 200 | 149 | 1800 | 1790 | 447/449T | TEFC | TFC | G | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60 | 460 | 219 | LINE OR INVERTER | CONT | H | 1.15 | 40 | 3300 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F.L. EFF | 96.5 | 3/4 LD EFF | 96.2 | 1/2 LD EFF | 95.8 | GTD EFF | ELECT. TYPE |
| F.L. PF | 88.5 | 3/4 LD PF | 86.5 | 1/2 LD PF | 80.0 | 95.8 | SQ CAGE INV RATED |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (° C) |
|---|---|---|---|---|
| 587 LB-FT | 1,450 | 1,256 LB-FT 214% | 1,775 LB-FT 302% | 55 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | APROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 80 dBA | 89 dBA | 88.0 LB-FT² | 1300 LB-FT² | 25 SEC. | 2 | 2675 LB. |

## *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| STANDARD | STANDARD | RIGID | HORIZONTAL | PREMIUM SEVERE DUTY | NONE | NO | NONE | BLUE (EPOXY) |

| BEARINGS DE | BEARINGS ODE | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| BALL | BALL | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6319 | 6317 | | | | | | |

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|---|---|---|---|---|---|---|
| NONE | NOT | NONE | NONE | NONE | FALSE | NA |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|---|---|---|---|---|---|---|
| 0.012 | 0.007 | 0.081 | 0.185 | 3.834 | 0.080 | NONE |

*
NOTES
*

INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

UL: V - LI,ME-INS,CONST UL REC

PREPARED BY:
DATE: 12/24/2020

FORM: 3531 REV_4 2/27/06