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# General Purpose Motors

**Model No:** 449TTFCD6026
**Catalog No:** GT1069

General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 449T Frame, TEFC

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# Product Information Packet: Model No: 449TTFCD6026, Catalog No: GT1069 General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 449T Frame, TEFC

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **250 & 200 Hp** |
| Output KW | **187.0 & 149.0 kW** | Voltage | **460 & 380 V** |
| Speed | **1790 & 1490 r/min** | Synchronous RPM | **1800 & 1500 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **449T** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **96.2 & 95.8 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **272 & 272 A** |
| Power Factor | **89.7** | Duty | **Continuous** |
| Insulation Class | **F** | 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 | **55** | Number of Speeds | **1** |
| Hazardous Location | **DIVISION 2 T2B** | | |

## Technical Specifications

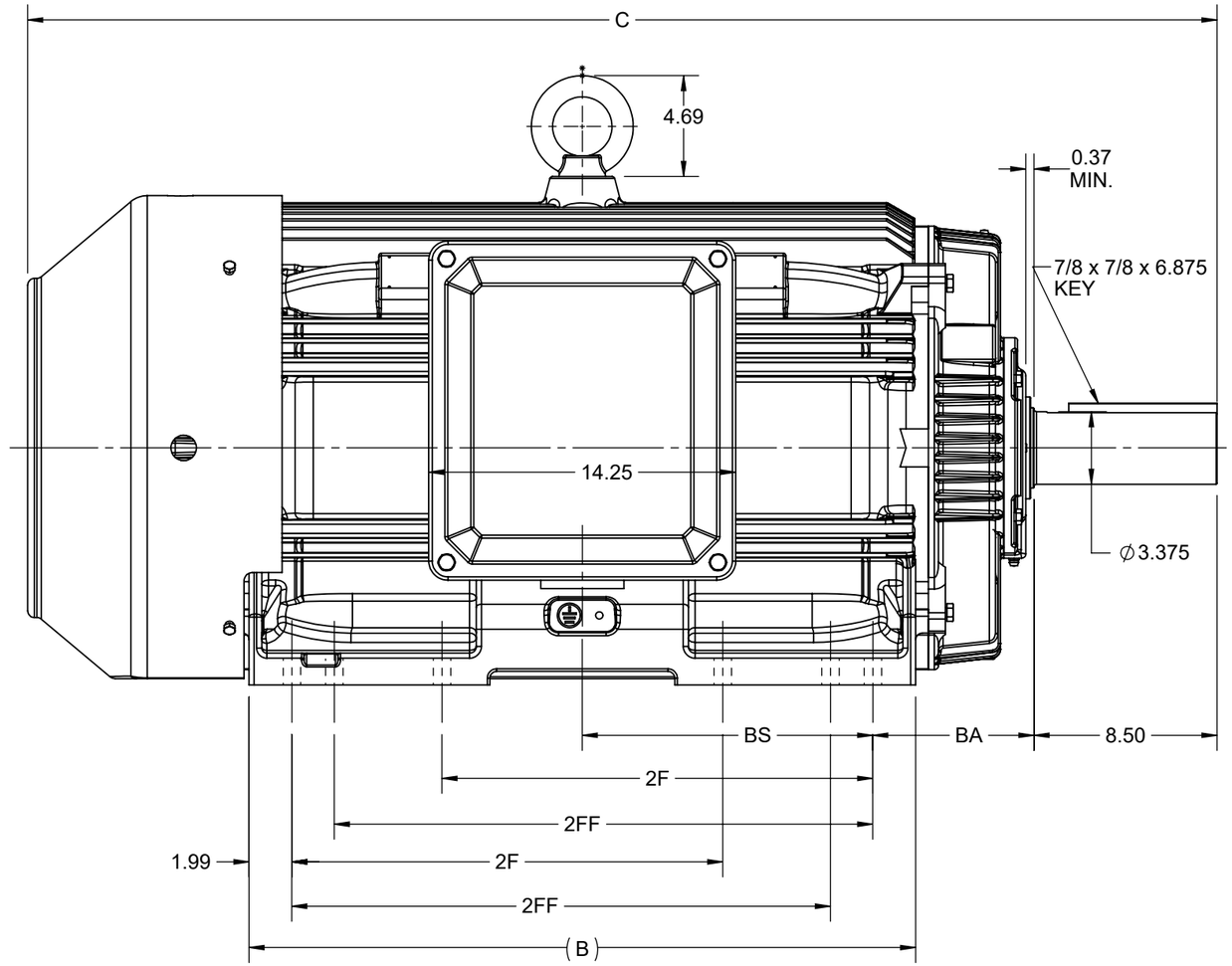
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Part Wdg Start Or Inverter** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **.0142 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **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** |

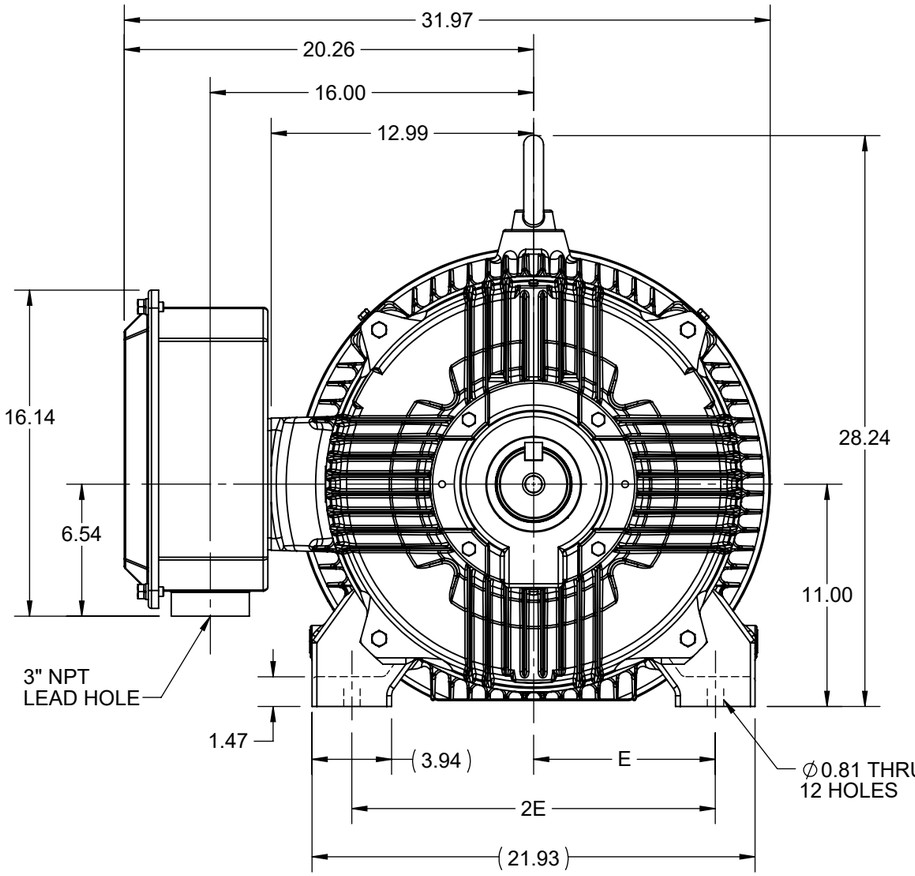
## Drawings

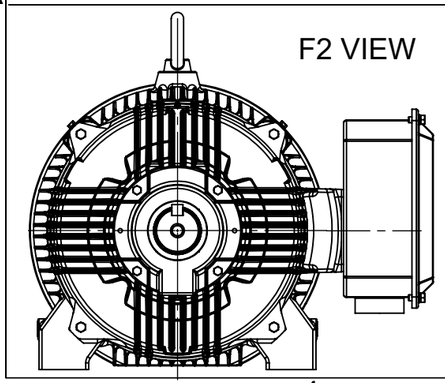
| | | | |
|---|---|---|---|
| Connection Drawing | **EE7341C** | Outline Drawing | **SS557013** |

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| B | C | E | 2E | 2F | 2FF | BA | BS | MOUNTING |
|---|---|---|---|---|---|---|---|---|
| 30.94 | 55.21 | 9.00 | 18.00 | 20.00 | 25.00 | 7.50 | 13.48 | F1 OR F2 |




| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| E | SB | 09/02/2025 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0023556 | SBD | 09/02/2025 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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| DRAWN BY | NIV |
|---|---|
| DATE | 23/05/2016 |
| APPROVED BY | SBD |
| DATE | 23/05/2016 |
| REFERENCE | |

marathon™

DESCRIPTION
OUTLINE
447/449T FR-TEFC

MATERIAL | PROCESS/FINISH

THIRD ANGLE PROJECTION

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| B | SS557013 | 1 OF 1 |

Uncontrolled Copy

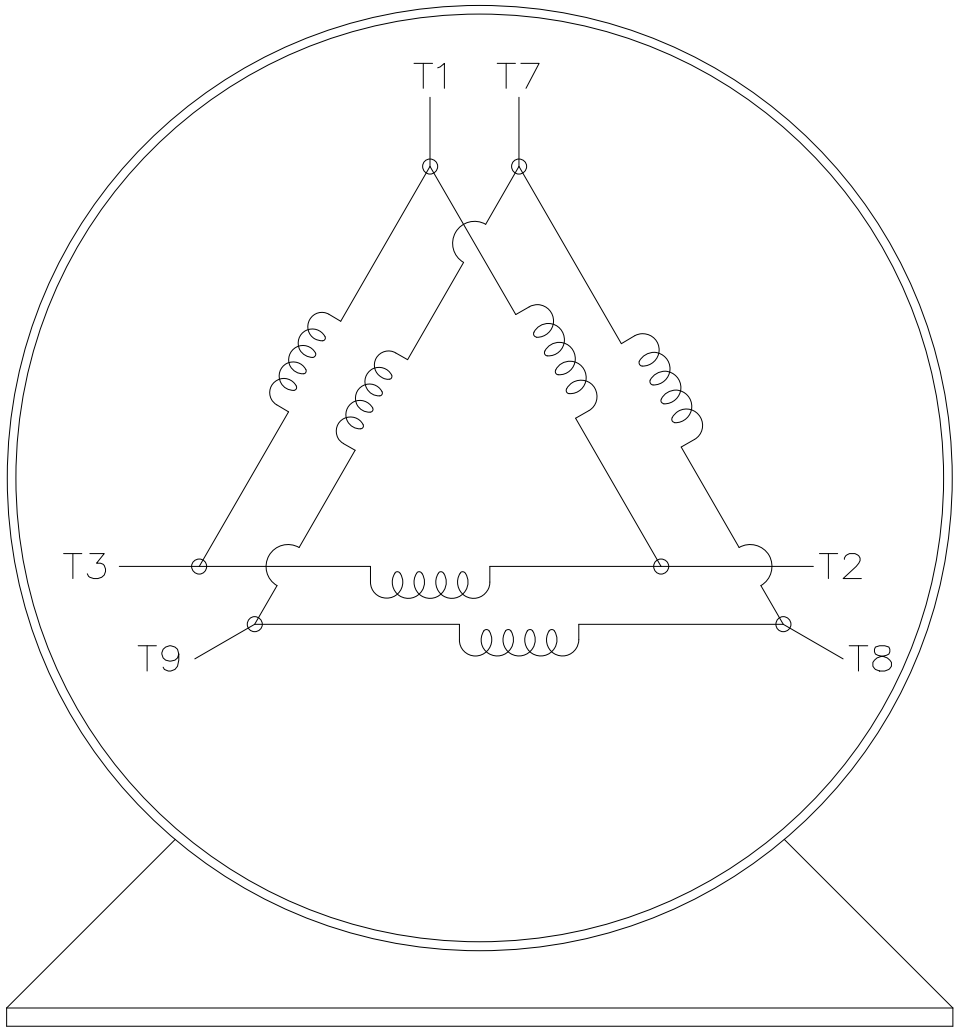
# THREE PHASE – PART WINDING START
# DELTA – 6 LEADS

## START

CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7–T8–T9 OPEN

## RUN

CONNECT T1&T7 TO LINE 1
CONNECT T2&T8 TO LINE 2
CONNECT T3&T9 TO LINE 3




VIEW OF TERMINAL END

## IF MOTOR HAS 2 T'S

### START

CONNECT T1,T1 TO LINE 1
CONNECT T2,T2 TO LINE 2
CONNECT T3,T3 TO LINE 3
T7,T7–T8,T8–T9,T9 OPEN

### RUN

CONNECT T1,T1&T7,T7 TO LINE 1
CONNECT T2,T2&T8,T8 TO LINE 2
CONNECT T3,T3&T9,T9 TO LINE 3

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

REQUEST NUMBER DESCRIPTION
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ARE FOR REFERENCE ONLY

| | |
|---|---|
| DRAWN BY | BLR |
| DATE | 03/09/1998 |
| APPROVED BY | GK |
| DATE | 03/23/1998 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø – 6 LEADS

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

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | EE7341C | 1 OF 1 |

# Data Sheet

Date: 2/17/2022
Customer:
Attention:
Submitted by: CHANDANA DESU

marathon® Motors

449TTFCD6026

Submittal

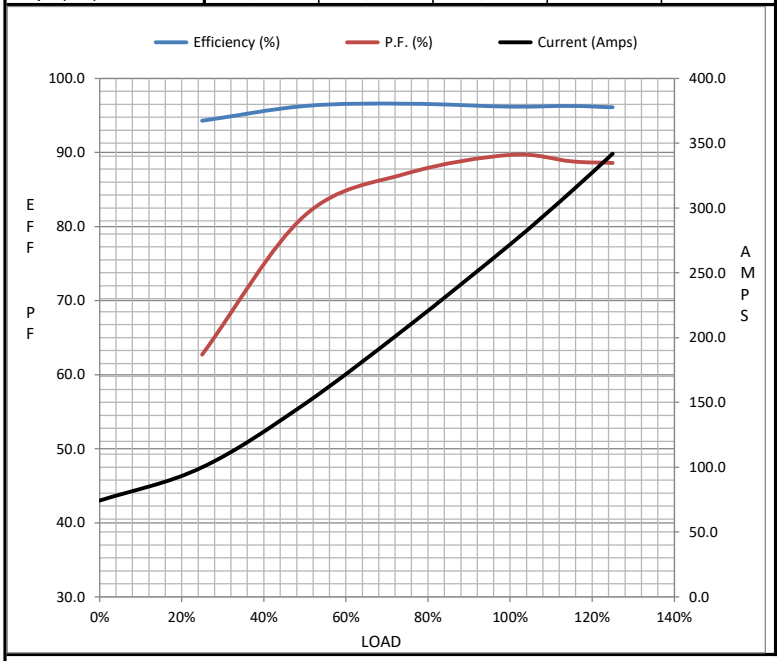
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 74.3 | 100 | 149 | 209 | 272 | 313 | 342 | 1,875 | |
| Torque (ft-lb) | 0.00 | 183 | 366 | 550 | 734 | 845 | 919 | 1,650 | |
| RPM | 1800 | 1797 | 1795 | 1792 | 1790 | 1,788 | 1786 | 0 | |
| Efficiency (%) | | 94.3 | 96.3 | 96.6 | 96.2 | 96.3 | 96.1 | | |
| P.F. (%) | 4.4 | 62.7 | 81.5 | 87.2 | 89.7 | 88.8 | 88.6 | 39.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 900 | 1750 | 1790 | 1800 |
| Current (Amps) | 1,875 | 1,540 | 990 | 272 | 74.3 |
| Torque (ft-lb) | 1,650 | 1,550 | 2,200 | 734 | 0.00 |




## Information Block

| | | |
|---|---|---|
| HP | 250.0 | |
| Sync. RPM | 1800 | |
| Frame | 449 | |
| Enclosure | TEFC | |
| Construction | TFC | |
| Voltage | 460#380 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | G | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 75 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 3,300 | feet |
| Rotor/Shaft wk² | 101 | Lb-Ft² |
| Ref Wdg | HA32804029 NONE | |
| Sound Pressure @ 1M | 80 | dBA |
| VFD Rating | CONSTANT 2:1/VARIABLE 10:1 | |
| Outline Dwg | SS557013 | |
| Conn. Diag | EE7341C | |

Additional Specifications:

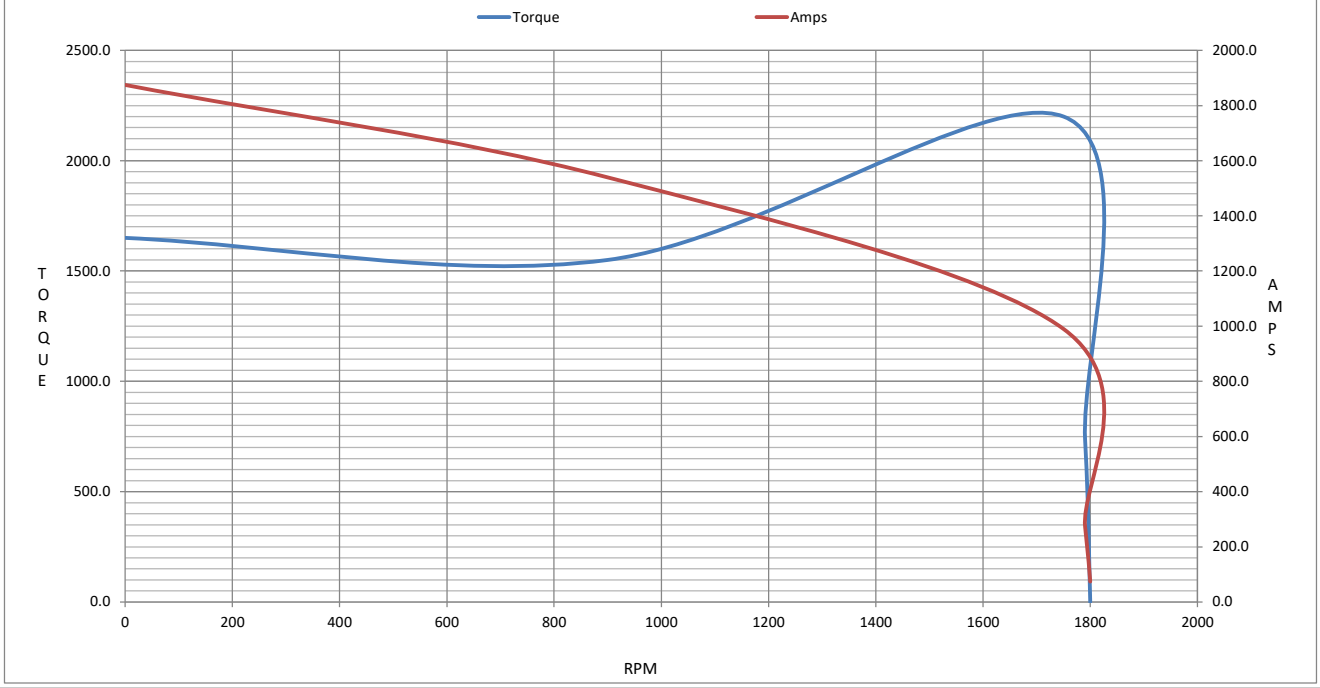
0

0

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.0090 | 0.0050 | 0.0620 | 0.1470 | 3.2770 |

## Speed -Torque Curve



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

marathon® Motors

DATA VOLTS: 460

## CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7341C
OUTLINE: SS557013
WINDING: HA32804029 NONE 1
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 449TTFCD6026
CAT #: GT1069
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|---|
| 250 | 187 | 1800 | 1790 | 447/449T | TEFC | TFC | G | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 460#380 | 272&272 | PWS OR INVERTER | CONT | F | 1.15 | 40 | 3300 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F.L. EFF | 96.2 | 3/4 LD EFF | 96.6 | 1/2 LD EFF | 96.3 | GTD EFF | ELECT. TYPE |
| F.L. PF | 89.7 | 3/4 LD PF | 87.2 | 1/2 LD PF | 81.5 | 95.8 | SQ CAGE INV RATED |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (°C) | |
|---|---|---|---|---|---|
| 734 LB-FT | 1,875 | 1,650 LB-FT 225% | 2,200 LB-FT 300% | 75 | |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | APROX. | MOTOR WGT |
|---|---|---|---|---|---|---|---|
| 80 dBA | 89 dBA | 101 LB-FT² | 2100 LB-FT² | 25 SEC. | 2 | 2500 | 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 | NO | DIVISION 2 T2B | YES | NONE | BLUE (ENAMEL) |

| 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 |
|---|---|---|---|---|---|---|
| 0.009 | 0.005 | 0.062 | 0.147 | 3.277 | 0.150 | 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:

PREPARED BY:
DATE: 2/22/2022

FORM: 3531 REV_4 2/27/06

UL: NO LETTER - ME,WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL LISTED