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# General Purpose Motors

**Model No:** 447TTFCD6038
**Catalog No:** GT1055A

General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 447T Frame, TEFC

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# Product Information Packet: Model No: 447TTFCD6038, Catalog No: GT1055A General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 447T Frame, TEFC

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **200 & 150 Hp** |
| Output KW | **149.0 & 112.0 kW** | Voltage | **460 & 380 V** |
| Speed | **1790 & 1490 r/min** | Synchronous RPM | **1800 & 1500 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **447T** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **96.5 & 95.4 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **219 & 200 A** |
| Power Factor | **88.5** | 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

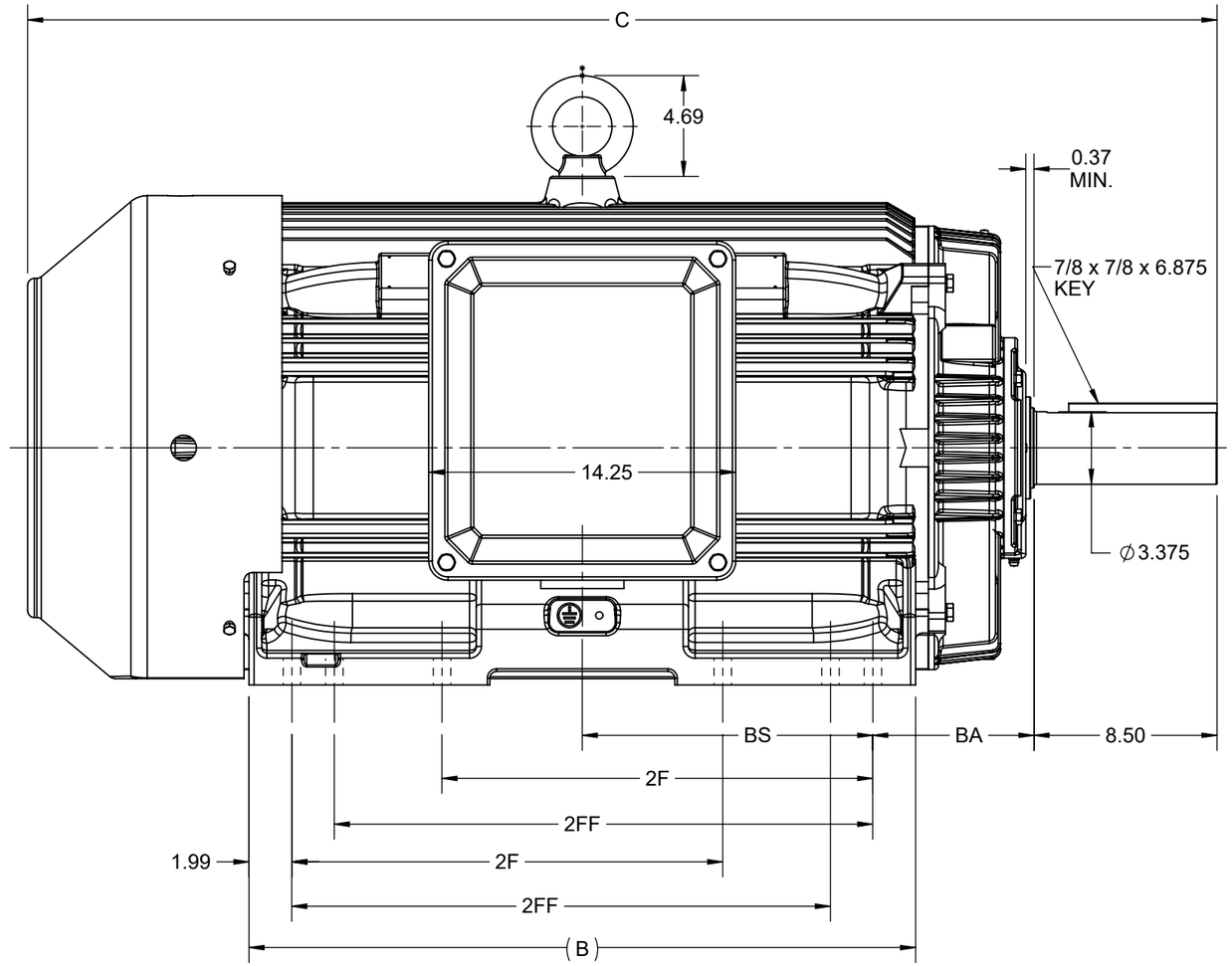
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Part Wdg Start Or Inverter** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **.0184 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **T** | Overall Length | **55.21 in** |
| Shaft Diameter | **3 3/8 in** | Shaft Extension | **8.5 in** |
| Assembly/Box Mounting | **F1/F2 Capable** | Inverter Load | **Constant 2:1/Variable 10:1** |

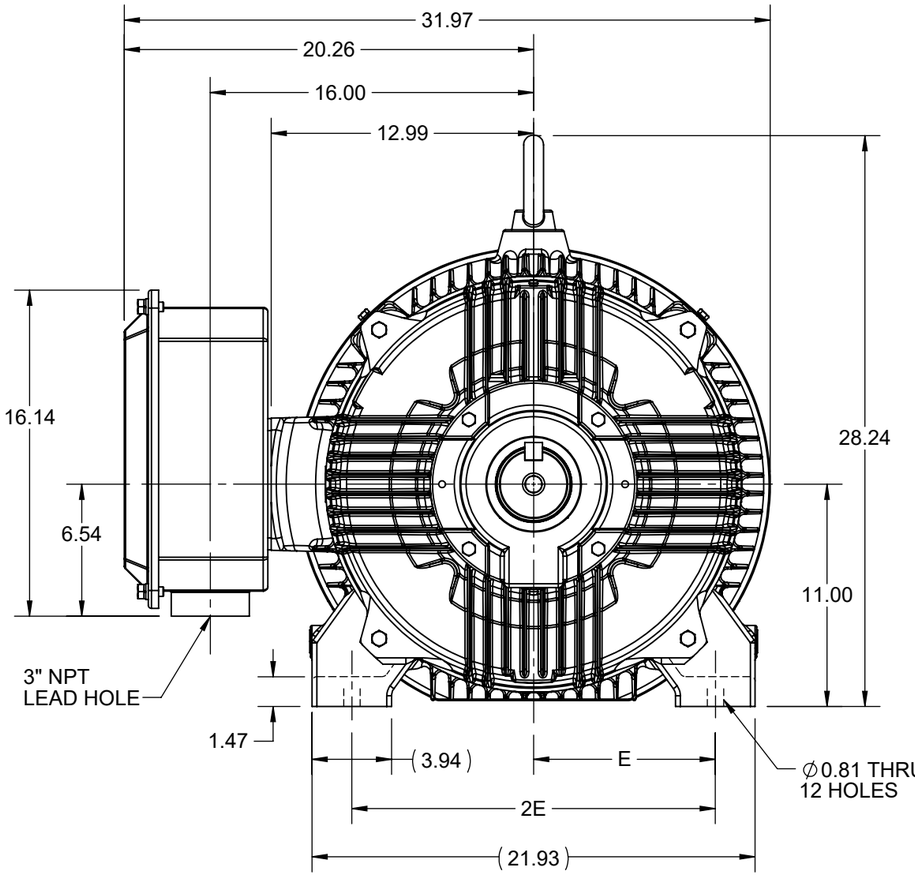
## Drawings

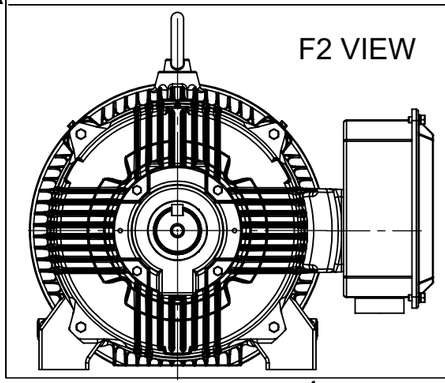
| | | | |
|---|---|---|---|
| Connection Drawing | **EE7341C** | Outline Drawing | **SS557013** |

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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 | |

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DESCRIPTION
OUTLINE
447/449T FR-TEFC

MATERIAL | PROCESS/FINISH

THIRD ANGLE PROJECTION

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

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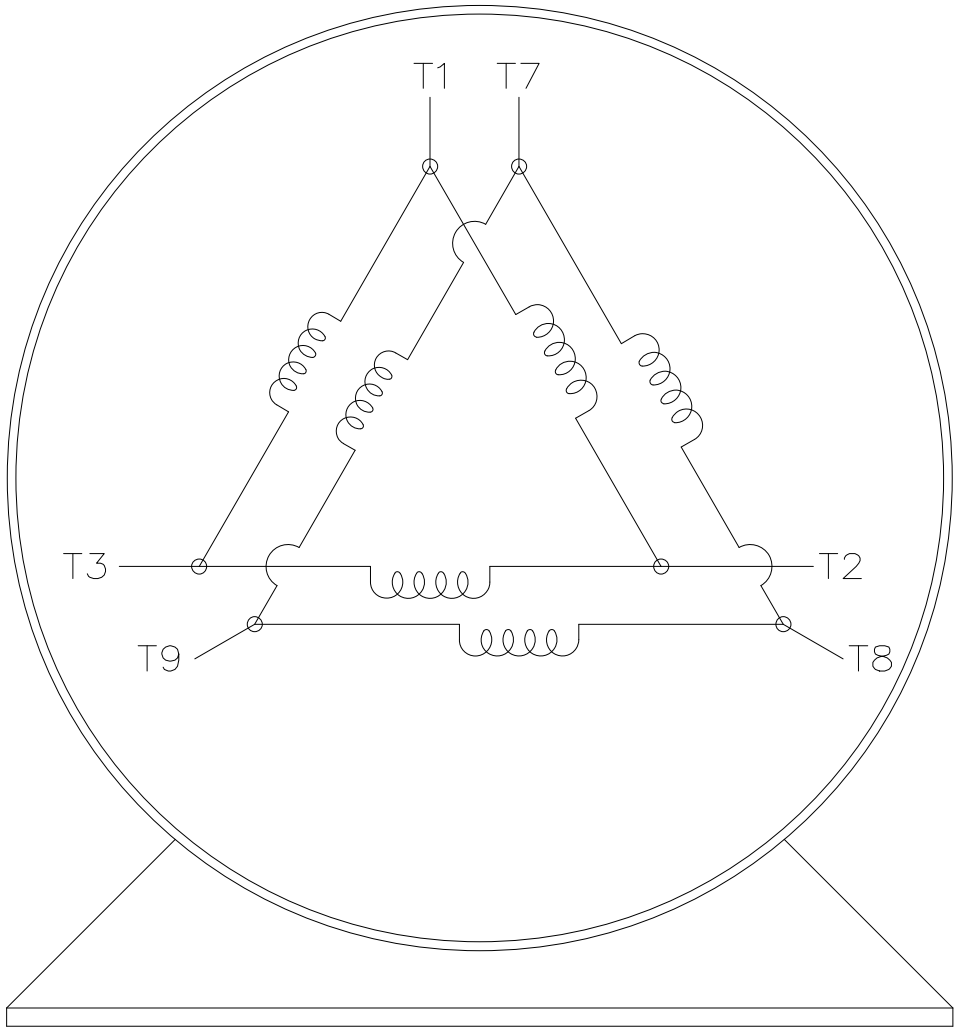
# THREE PHASE – PART WINDING START
# DELTA – 6 LEADS

## 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 |

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

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø – 6 LEADS

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

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

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# Data Sheet

**Date:** 1/28/2019
**Customer:**
**Attention:**
**Submitted by:** FAREEDA DUDEKULA

447TTFCD6038

**Submittal**

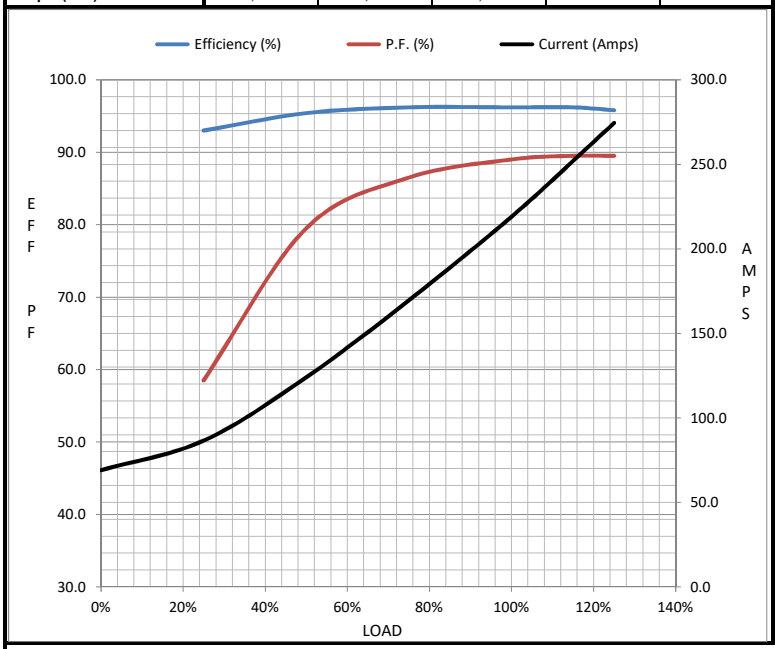
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 69.0 | 86.5 | 124 | 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 | 95.4 | 96.2 | 96.2 | 96.2 | 95.8 | | |
| P.F. (%) | 4.5 | 58.5 | 79.5 | 86.5 | 89.0 | 89.5 | 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 | 815 | 219 | 69.0 |
| Torque (ft-lb) | 1,256 | 1,050 | 1,656 | 587 | 0.00 |



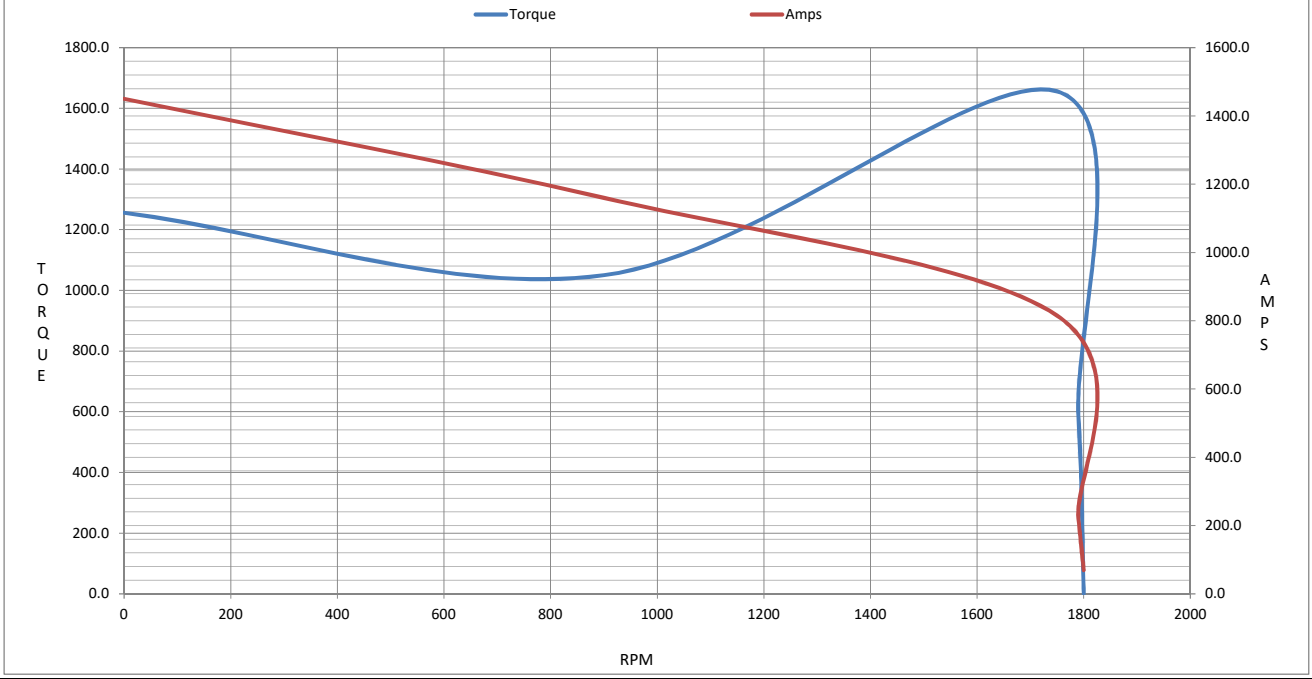

## Information Block

| | | |
|---|---|---|
| HP | 200.0 | |
| Sync. RPM | 1800 | |
| Frame | 447 | |
| Enclosure | TEFC | |
| Construction | TFC | |
| Voltage | 460#380 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | G | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 60 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 3,300 | feet |
| Rotor/Shaft wk² | 88.0 | Lb-Ft² |
| Ref Wdg | HE32804009 NONE | |
| Sound Pressure @ 1M | 80 | dBA |
| VFD Rating | CONSTANT 10:1/VARIABLE 10:1 | |
| Outline Dwg | SS557013 | |
| Conn. Diag | EE7341C | |
| Additional Specifications: | | |
| 0 | | |
| 0 | | |

EQUIV CKT (OHMS / PHASE)

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

## Speed -Torque Curve



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## CERTIFICATION DATA SHEET

| | | | |
|---|---|---|---|
| **Model#:** | 447TTFCD6038 AA | **WINDING#:** | HE32804009 NONE 1 |
| **CONN. DIAGRAM:** | EE7341C | **ASSEMBLY:** | F1/F2 CAPABLE |
| **OUTLINE:** | SS557013 | | |

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 200&150 | 149&112 | 1800 | 1790&1490 | 447T | TEFC | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 460#380 | 219&200 | PWS OR INVERTER | CONTINUOUS | F7 | 1.15/1.15 | 40 | 3300 |

| FULL LOAD EFF: 96.2&96 | 3/4 LOAD EFF: 96.2 | 1/2 LOAD EFF: 95.4 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---|---|---|---|---|---|
| FULL LOAD PF: 89&88.5 | 3/4 LOAD PF: 86.5 | 1/2 LOAD PF: 79.5 | 95.8 | SQ CAGE INV RATED | 69 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 587 LB-FT | 1450 | 1256 LB-FT 215 | 1656 LB-FT 285 | 60 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 80 dBA | 90 dBA | 88 LB-FT^2 | - LB-FT^2 | 25 SEC. | - | 2675 LBS. |

### *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| STANDARD | STANDARD | RIGID | HORIZONTAL | FALSE | DIVISION 2 T2B | FALSE | NONE | BLUE (ENAMEL) |

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

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE /n HEATERS |
|---|---|---|---|---|---|---|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

If Inverter equals NONE, contact factory for further information

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

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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