marathon®

# Severe Duty Motors

**Model No:** 215TTFCD6527
**Catalog No:** E479B

Severe Duty Motor, 10 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 215T Frame, TEFC

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# Product Information Packet: Model No: 215TTFCD6527, Catalog No: E479B  Severe Duty Motor, 10 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 215T Frame, TEFC

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **10 Hp** |
| Output KW | **7.5 kW** | Voltage | **230/460 V** |
| Speed | **1765 r/min** | Synchronous RPM | **1800 r/min** |
| Service Factor | **1.15** | Frame | **215T** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **91.7 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **25.8/12.9 A** |
| Power Factor | **80** | Duty | **Continuous** |
| Insulation Class | **H** | Design Code | **B** |
| KVA Code | **J** | Drive End Bearing Size | **6308** |
| Opp Drive End Bearing Size | **6208** | UL | **Listed** |
| CSA | **Y** | CE | **Y** |
| IP Code | **55** | Number of Speeds | **1** |
| Hazardous Location | **DIVISION 2 T2B** | | |

## Technical Specifications

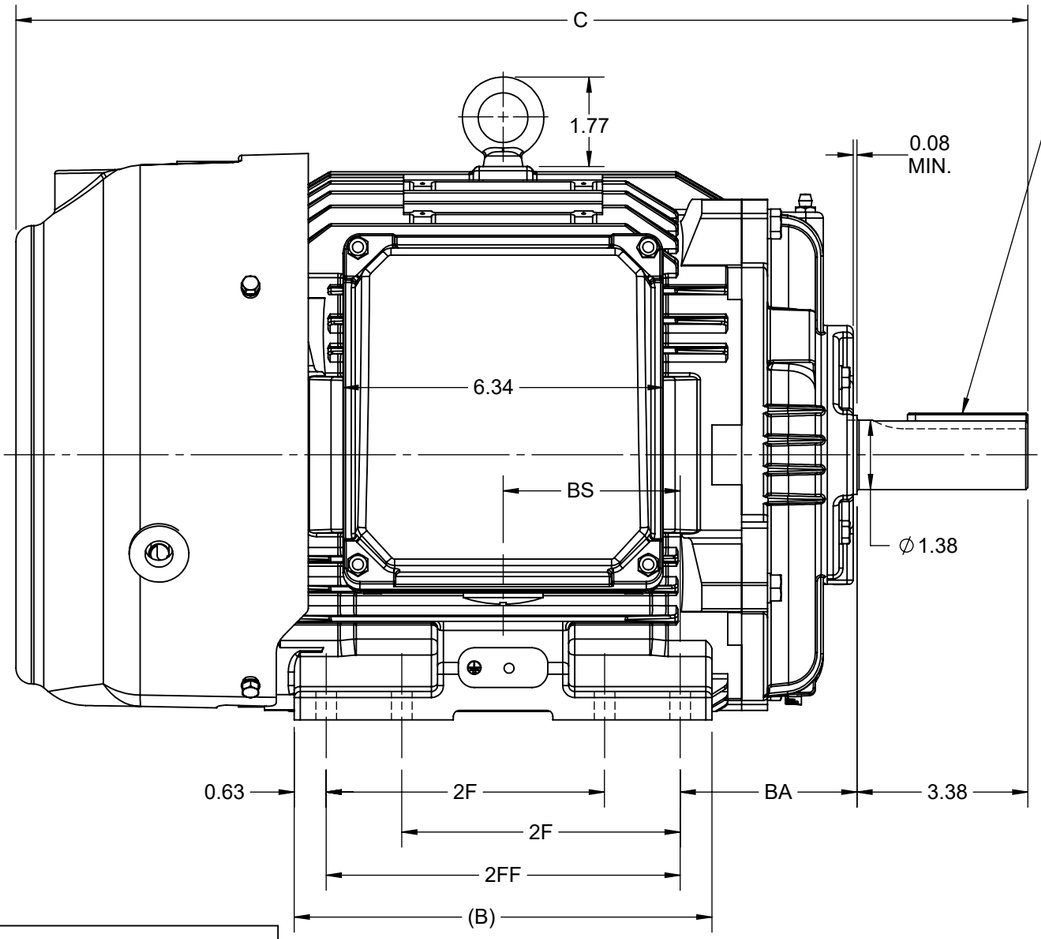
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Line Or Inverter** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **.955 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **T** | Shaft Diameter | **1.375 in** |
| Assembly/Box Mounting | **F1/F2 Capable** | Inverter Load | **Constant 20:1/Variable 10:1** |

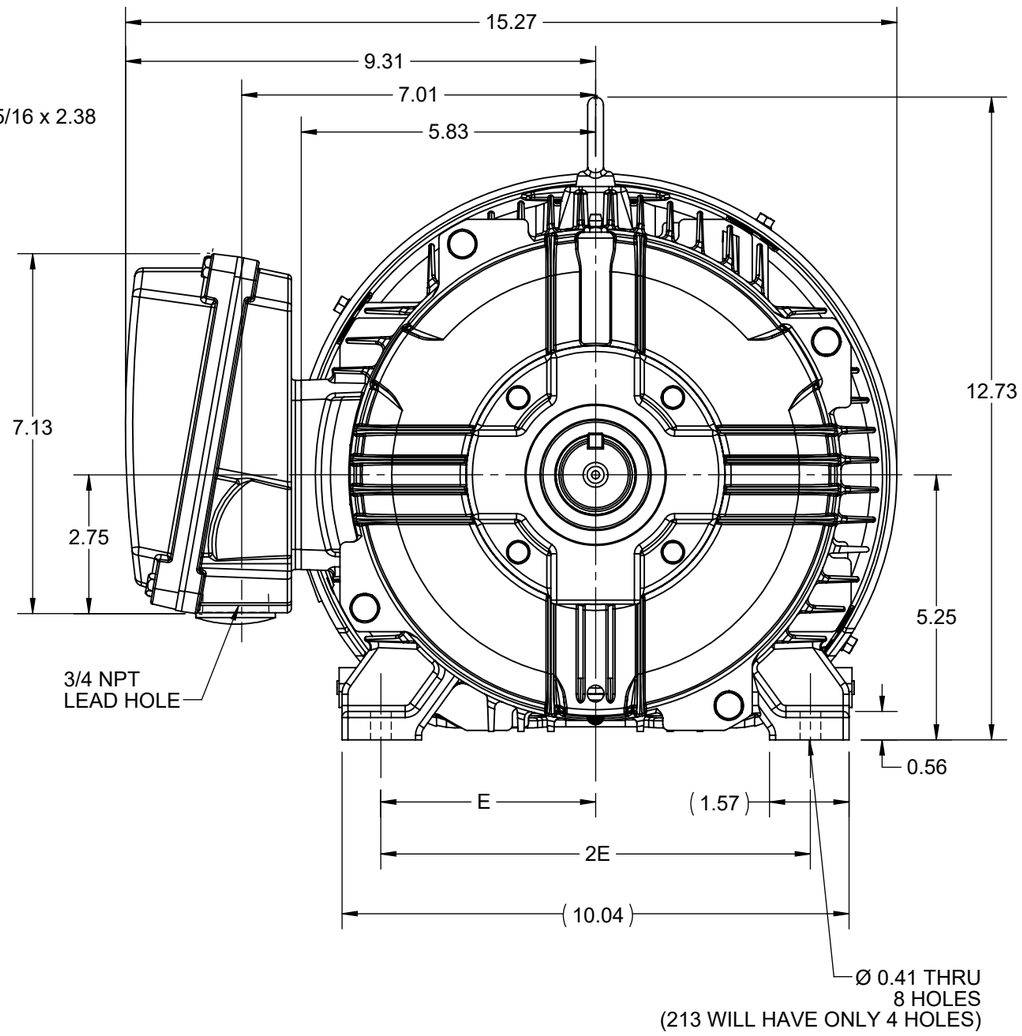
## Drawings

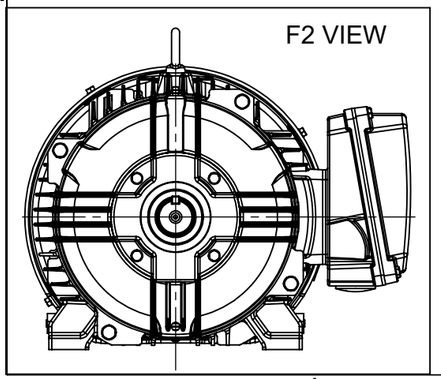
| | | | |
|---|---|---|---|
| Connection Drawing | **EE7308** | Outline Drawing | **SS810116-200** |

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| DASH NO. | B | C | E | 2E | 2F | 2FF | BA | BS | MOUNTING | FRAME |
|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 6.76 | 18.53 | 4.25 | 8.50 | --- | 5.50 | 3.50 | 2.75 | F1 OR F2 | 213T |
| 200 | 8.26 | 20.03 | | | 5.50 | 7.00 | | 3.50 | | 213/215T |




| | | |
|---|---|---|
| DRAWING REVISION: E | 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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| | | |
|---|---|---|
| DRAWN BY: BISWA | marathon™ | |
| DATE: 24/12/2018 | DESCRIPTION: OUTLINE<br>213/215T FR NEMA- SD & IEEE841 | |
| APPROVED BY: SBD | | |
| DATE: 24/12/2018 | | |
| REFERENCE | MATERIAL | PROCESS/FINISH |
| THIRD ANGLE PROJECTION | SIZE: B / DRAWING NUMBER: SS810116 | SHEET: 1 OF 1 |

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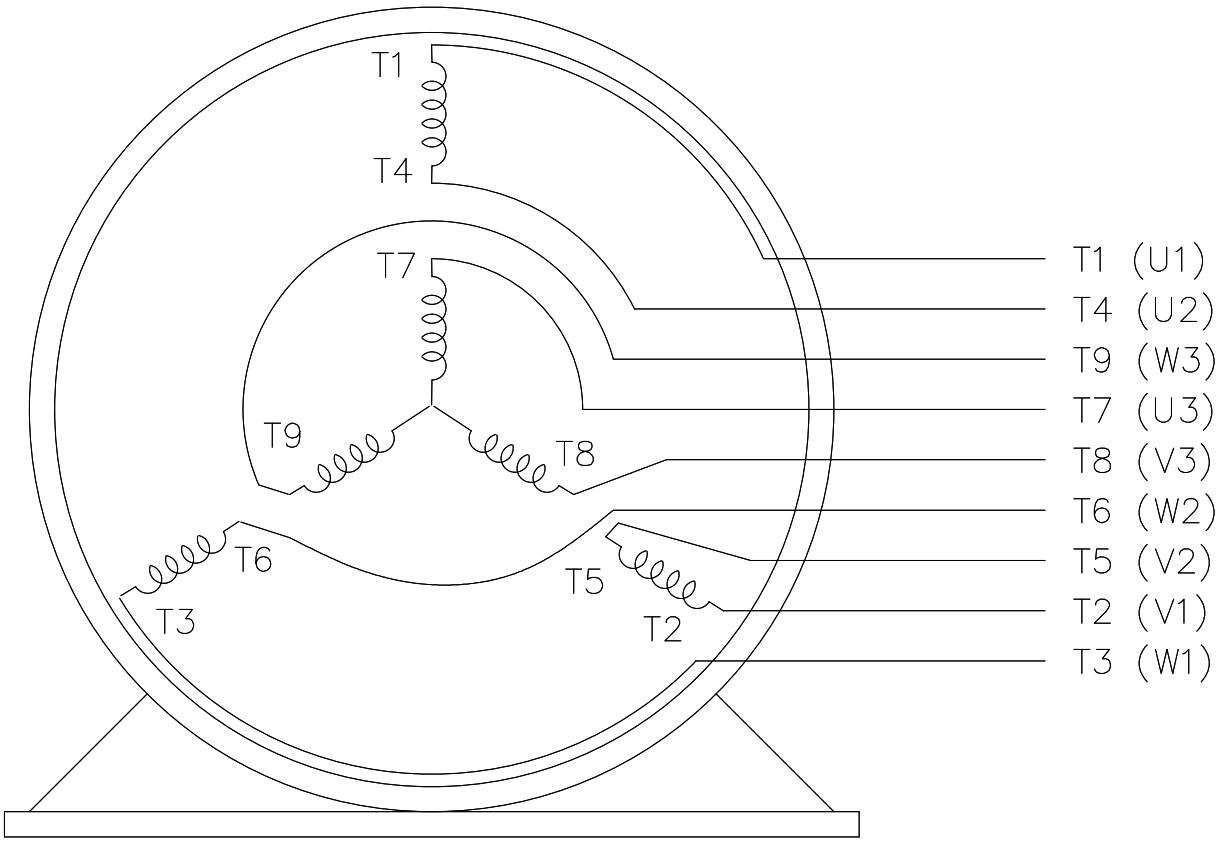
# THREE PHASE
# DUAL VOLTAGE MOTOR

## HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

## LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6




VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

## OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

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

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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| DRAWN BY | RM |
|---|---|
| DATE | 11/20/1990 |
| APPROVED BY | SAS |
| DATE | 04/24/2003 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

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

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | 4 of 6 EE7308 | 1 OF 1 |

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# Data Sheet

**Date:** 3/10/2020
**Customer:**
**Attention:**
**Submitted by:** ANUSHA M

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215TTFCD6527

**Submittal**

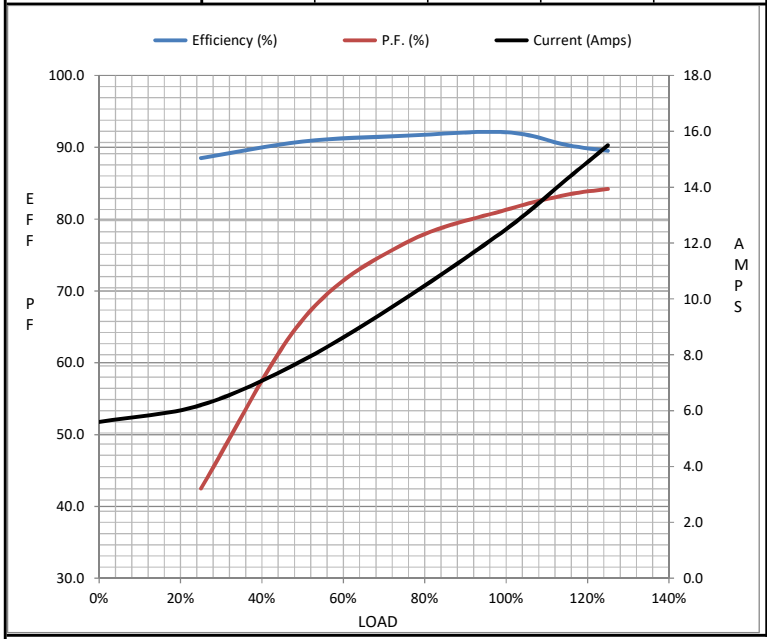
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 5.6 | 6.2 | 7.8 | 10.0 | 12.5 | 14.3 | 15.5 | 79.0 | |
| Torque (ft-lb) | 0.00 | 7.3 | 14.7 | 22.2 | 29.8 | 34.4 | 37.4 | 59.0 | |
| RPM | 1800 | 1792 | 1782 | 1772 | 1762 | 1,756 | 1752 | 0 | |
| Efficiency (%) | | 88.5 | 90.8 | 91.6 | 92.1 | 90.3 | 89.5 | | |
| P.F. (%) | 9.0 | 42.5 | 66.0 | 76.6 | 81.3 | 83.4 | 84.2 | 44.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 900 | 1565 | 1762 | 1800 |
| Current (Amps) | 79.0 | 73.0 | 45.0 | 12.5 | 5.6 |
| Torque (ft-lb) | 59.0 | 51.0 | 74.0 | 29.8 | 0.00 |



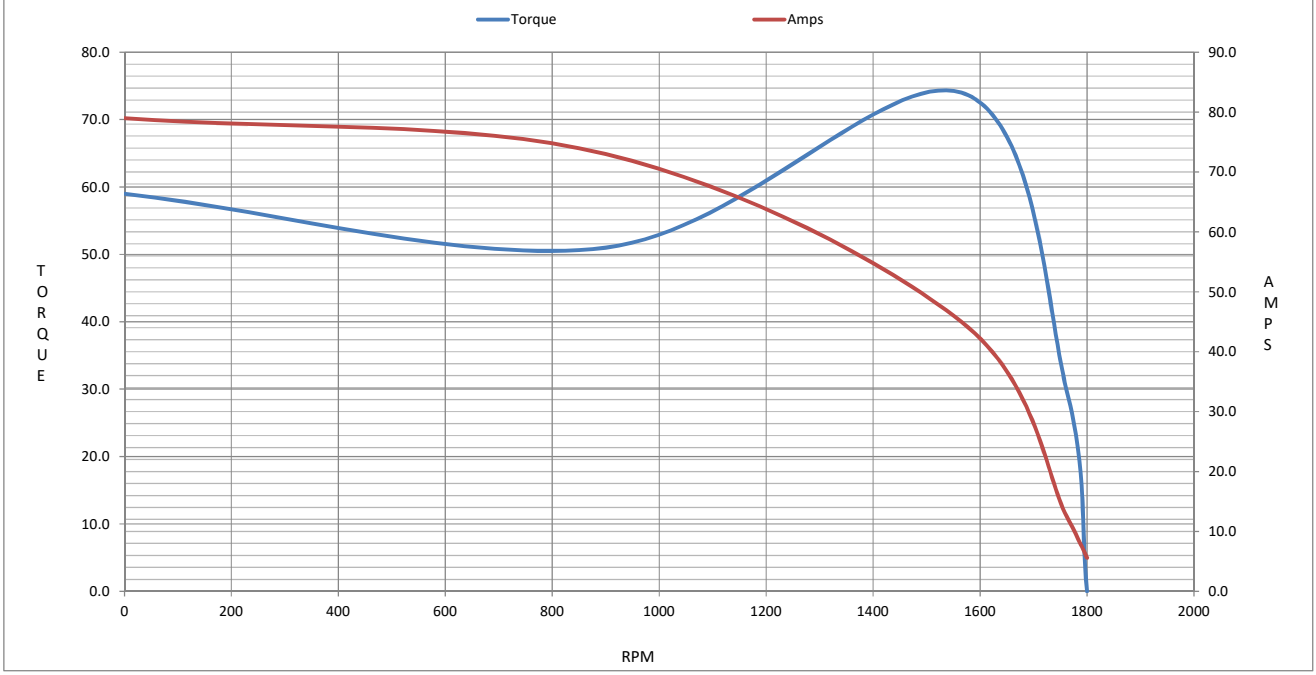

## Information Block

| | |
|---|---|
| HP | 10.0 |
| Sync. RPM | 1800 |
| Frame | 215 |
| Enclosure | TEFC |
| Construction | TFC |
| Voltage | 230/460 V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | H |
| Service Factor | 1.15 |
| Temp Rise @ FL | 70 ° C |
| Duty | CONT |
| Ambient | 50 ° C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk² | 1.10 Lb-Ft² |
| Ref Wdg | HE31324013 NONE |
| Sound Pressure @ 1M | 62 dBA |
| VFD Rating | CONSTANT 20:1/VARIABLE 10:1 |
| Outline Dwg | SS810116-215T |
| Conn. Diag | EE7308 |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.7410 | 0.4660 | 2.1470 | 2.5790 | 46.7750 |

## Speed -Torque Curve



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**DATA VOLTS:** 460

## CERTIFICATION DATA SHEET

**MODEL #:** 215TTFCD6527
**CONN. DIAGRAM:** EE7308 **CAT #:** E479B
**OUTLINE:** SS810116-215T
**WINDING:** HE31324013 NONE 2 **MOUNTING:** F1/F2 CAPABLE

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|---|
| 10 | 7.5 | 1800 | 1762 | 215T | TEFC | TFC | H | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB (° C) | ELEV.(Ft) |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60 | 230/460 | 25/12.5 | LINE OR INVERTER | CONT | H | 1.15 | 40 | 3300 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F.L. EFF | 92.1 | 3/4 LD EFF | 91.6 | 1/2 LD EFF | 90.8 | GTD EFF | ELECT. TYPE |
| F.L. PF | 81.3 | 3/4 LD PF | 76.6 | 1/2 LD PF | 66.0 | 91.0 | SQ CAGE INV RATED |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (° C) | |
|---|---|---|---|---|---|
| 29.8 LB-FT | 79.0 | 59.0 LB-FT 198% | 74.0 LB-FT 248% | 70 | |

| SOUND PRESSURE @ | SOUND | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | APROX. MOTOR |
|---|---|---|---|---|---|---|
| 62 dBA | 71 dBA | 1.10 LB-FT² | 85 LB-FT² | 25 SEC. | 2 | 228 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 | DIVISION 2 T2B | NO | NONE | BLUE (EPOXY) |

| BEARINGS DE | BEARINGS ODE | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| BALL 6308 | BALL 6208 | POLYREX EM | T | NONE | NONE | 1144 STRESSPROOF (C-223 | CAST IRON |

| 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) | |
|---|---|---|---|---|---|---|
| 0.741 | 0.466 | 2.147 | 2.579 | 46.775 | 0.080 | |

If Inverter equals NONE, contact factory for further information

NOTES
*
*

**INVERTER TORQUE:** CONSTANT 20:1/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:** ANUSHA M
**DATE:** 3/10/2020

FORM: 3531 REV_4 2/27/06
** Subject to change without notice.