marathon®

# General Purpose Motors

**Model No:** 256TTFCA6026
**Catalog No:** GT1025

General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 256T Frame, TEFC

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## Product Information Packet: Model No: 256TTFCA6026, Catalog No: GT1025 General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 256T Frame, TEFC

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **20 & 15 Hp** |
| Output KW | **14.9 & 11.2 kW** | Voltage | **230/460 & 190/380 V** |
| Speed | **1768 & 1475 r/min** | Synchronous RPM | **1800 & 1500 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **256T** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **93 & 92.4 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **48/24- & 45/22.5 A** |
| Power Factor | **82** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **6309** |
| Opp Drive End Bearing Size | **6209** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **43** | Number of Speeds | **1** |

### Technical Specifications

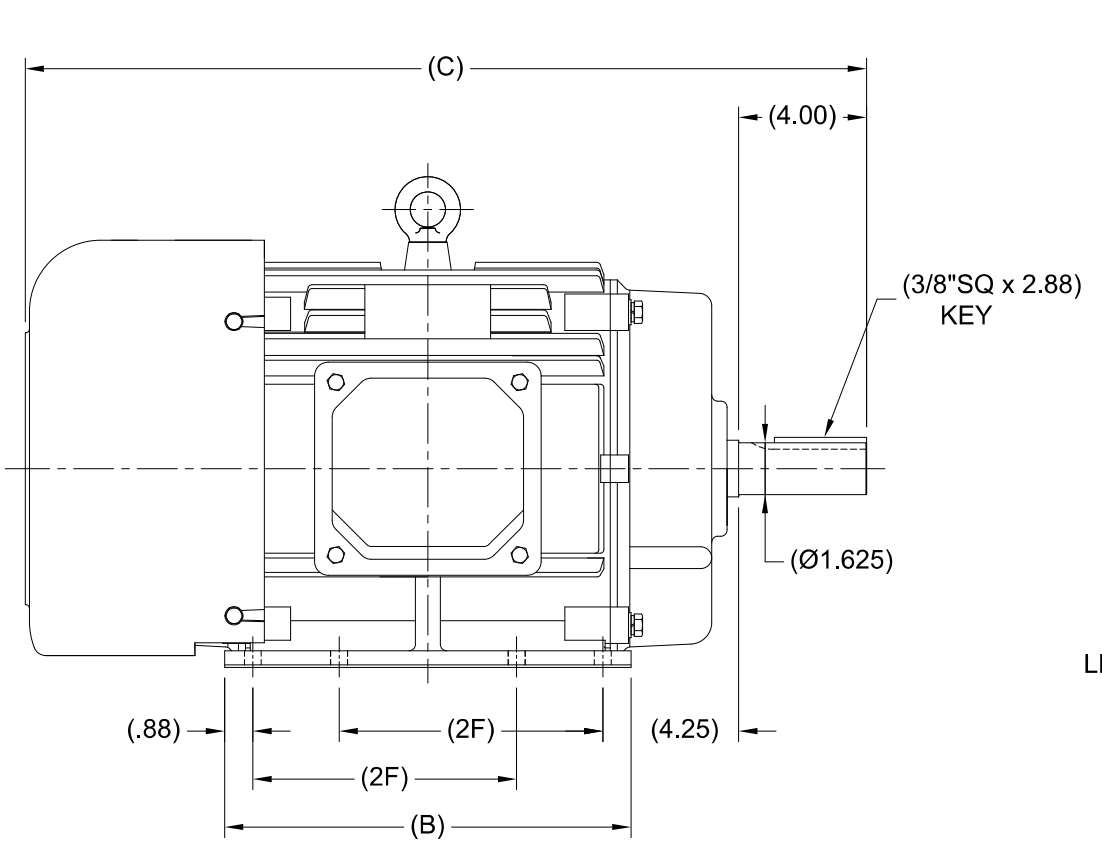
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Across The Line** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **.42 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **T** | Overall Length | **27.8 in** |
| Shaft Diameter | **1 5/8 in** | Shaft Extension | **4 in** |
| Assembly/Box Mounting | **F1/F2 Capable** | | |

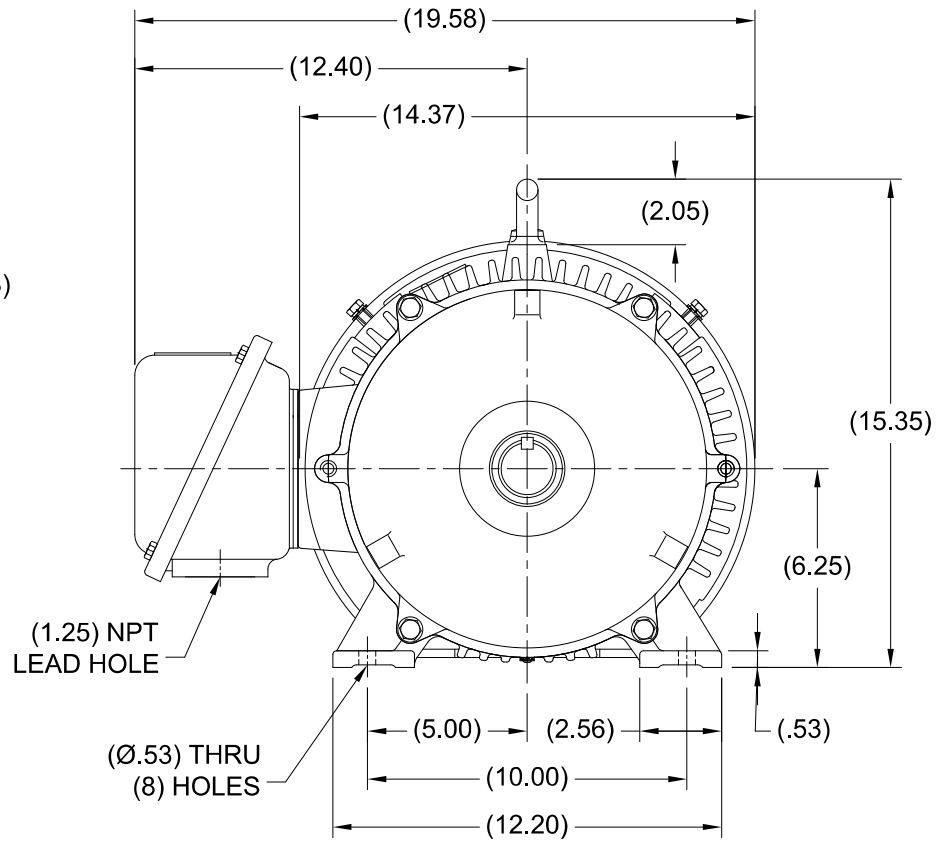
### Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **A-EE7308K** | Outline Drawing | **SS620244-256T** |

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(MAY NOT BE DRAWN TO SCALE)

(DIMENSIONS IN TABLE ARE CONSIDERED REFFERENCE)

| | | | |
|---|---|---|---|
| 254T | 26.60 | 12.80 | 8.25 |
| 256T | 27.80 | 13.98 | 10.00 |
| FRAME | C | B | 2F |

| | | |
|---|---|---|
| DRAWING REVISION: E | REVISION BY: SV | REV DATE/ © DATE: 09/23/2026 |
| REQUEST NUMBER: CR-0027816 | APPROVED BY: RMS | DATE: 09/23/2026 |
| REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED | | |

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TOLERANCES (EXCEPT AS NOTED):

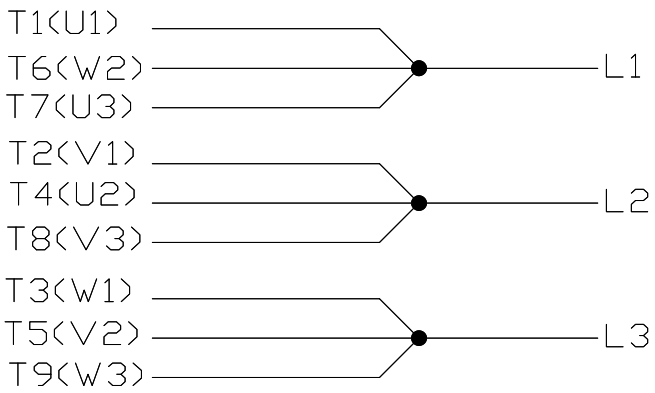
| DEC. | INCH | mm | ANGLE |
|---|---|---|---|
| .X | ±0.1 | [±3] | ±0.5° |
| .XX | ±0.03 | [±0.8] | |
| .XXX | ±0.005 | [±0.13] | |
| .XXXX | ±0.0005 | [±0.013] | |

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 125 INCH / 3.2 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

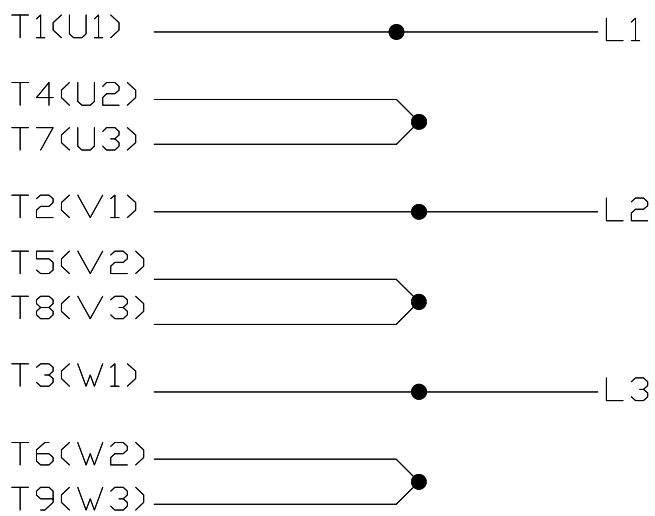
| | |
|---|---|
| DRAWN BY: MSG | marathon™ |
| DATE: 01/12/2010 | |
| APPROVED BY: SB | DESCRIPTION: OUTLINE 254T FR. - TEFC |
| DATE: 01/13/2010 | |
| REFERENCE | MATERIAL / PROCESS/FINISH |
| THIRD ANGLE PROJECTION | SIZE: B / DRAWING NUMBER: SS620244 / SHEET: 1 OF 1 |

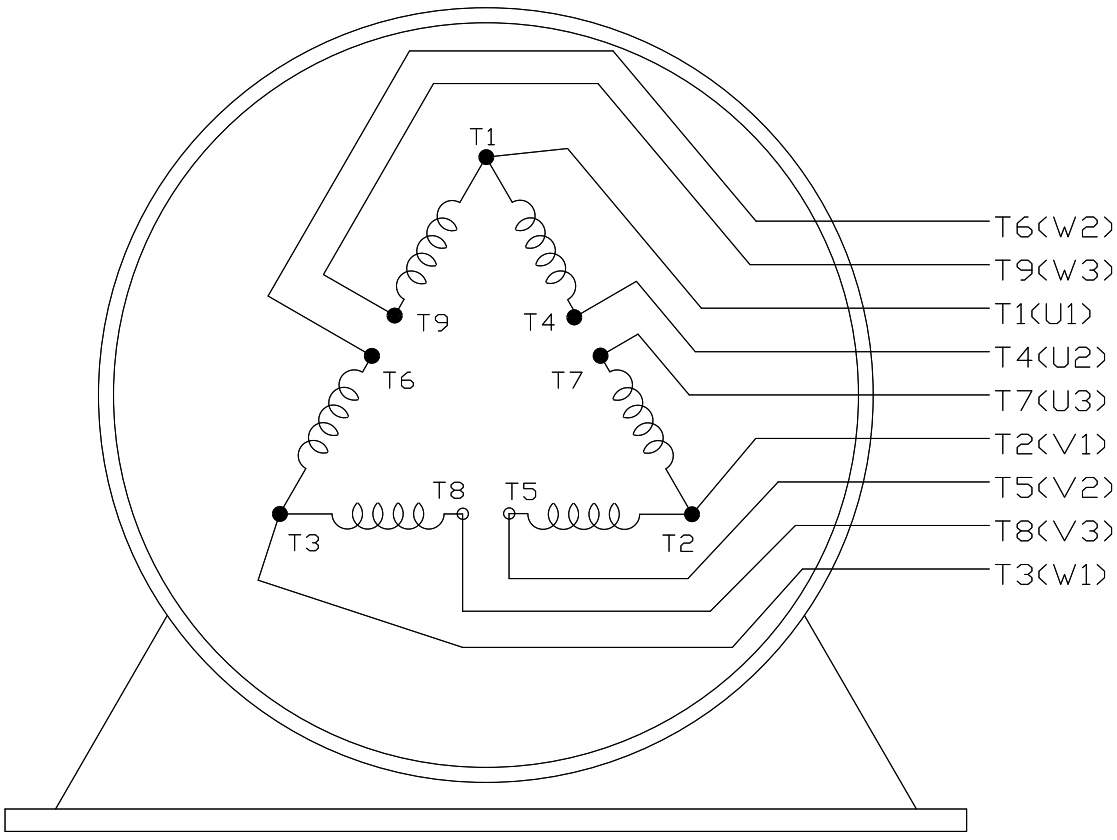
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## LOW VOLTAGE




## HIGH VOLTAGE




VIEW OF TERMINAL END

| | | | | |
|---|---|---|---|---|
| DRAWING REVISION: F | REVISION BY: SB | REV DATE/ © DATE: 08/01/2025 | DRAWN BY: PGK | marathon™ |
| REQUEST NUMBER: CR-0023654 | APPROVED BY: SBD | DATE: 08/01/2025 | DATE: 06/04/1997 | |
| REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED | | | APPROVED BY: GK | DESCRIPTION: CONN DIAGRAM-EXTERNAL<br>DELTA CON. - 3ø - 9 LEADS |
| | | | DATE: 06/15/1997 | |
| | | | REFERENCE | MATERIAL / PROCESS/FINISH |
| | | | THIRD ANGLE PROJECTION | SIZE: A / DRAWING NUMBER: EE7308K / SHEET: 1 OF 1 |

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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

# Data Sheet

**Date:** 6/29/2017
**Customer:**
**Attention:**
**Submitted by:** FAREEDA DUDEKULA

marathon electric

256TTFCA6026

**Submittal**

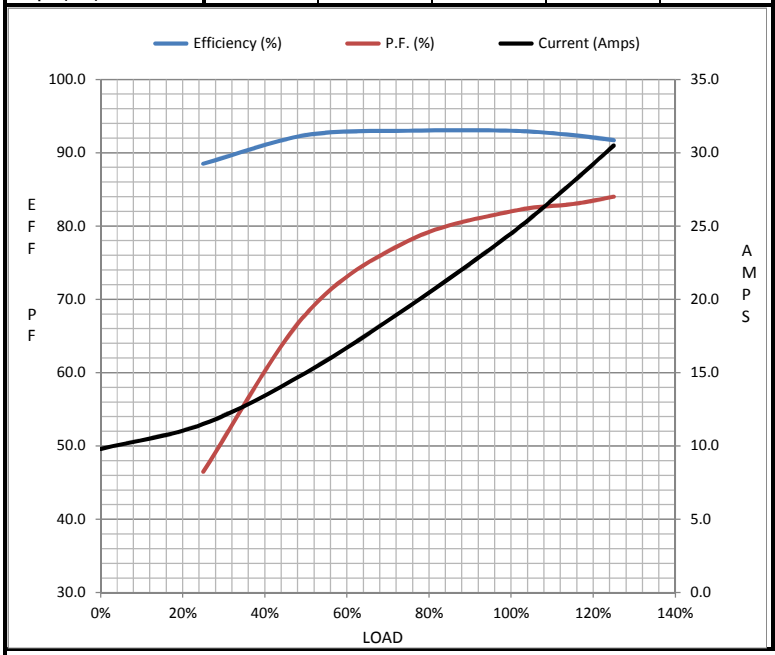
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 9.8 | 11.5 | 15.0 | 19.5 | 24.5 | 28.0 | 30.5 | 138 | |
| Torque (ft-lb) | 0.00 | 15.0 | 29.5 | 44.5 | 60.0 | 68.6 | 75.0 | 116 | |
| RPM | 1800 | 1792 | 1785 | 1778 | 1768 | 1,765 | 1760 | 0 | |
| Efficiency (%) | | 88.5 | 92.4 | 93.0 | 93.0 | 92.4 | 91.7 | | |
| P.F. (%) | 5.5 | 46.5 | 68.0 | 78.0 | 82.0 | 83.0 | 84.0 | 39.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 900 | 1650 | 1768 | 1800 |
| Current (Amps) | 138 | 120 | 87.0 | 24.5 | 9.8 |
| Torque (ft-lb) | 116 | 95.0 | 165 | 60.0 | 0.00 |



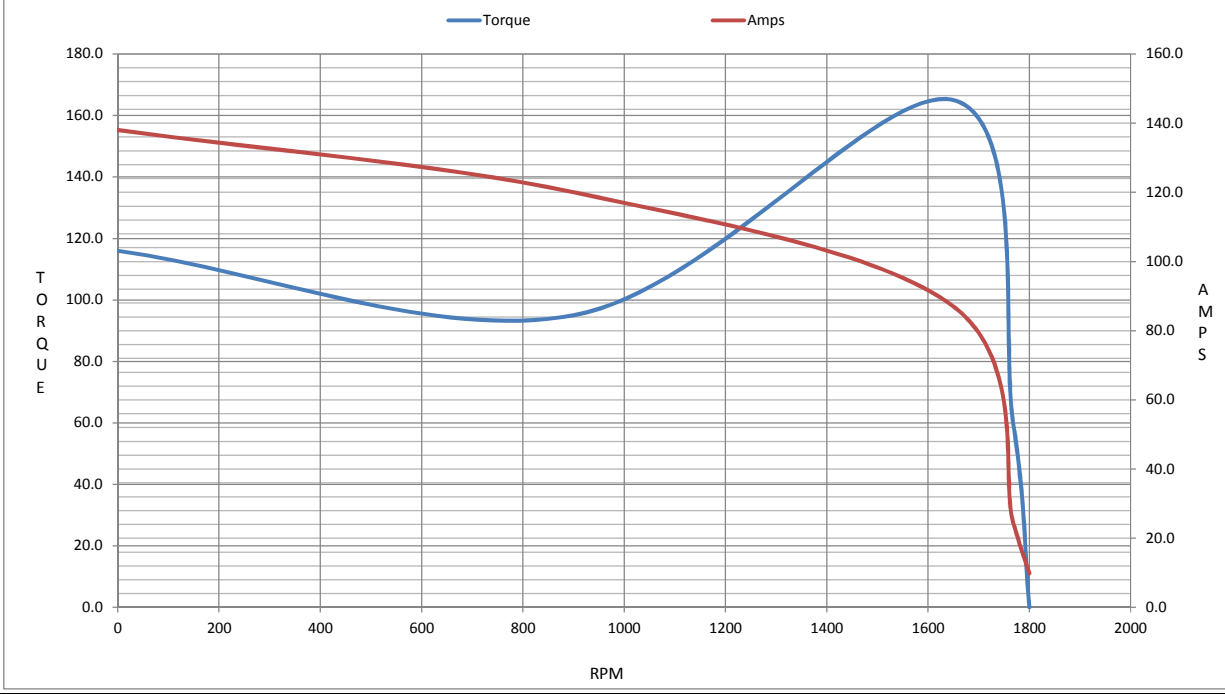

## Information Block

| | |
|---|---|
| HP | 20.0 |
| Sync. RPM | 1800 |
| Frame | 256 |
| Enclosure | TEFC |
| Construction | TFC |
| Voltage | 230/460#190/380 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 | 1,000 feet |
| Rotor/Shaft wk² | 3.2 Lb-Ft² |
| Ref Wdg | CHT25640001 NONE |
| Sound Pressure @ 1M | 65 dBA |
| VFD Rating | NONE |
| Outline Dwg | B-SS620244 |
| Conn. Diag | A-EE7308K |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.2770 | 0.2060 | 0.8660 | 1.4770 | 28.2580 |

## Speed -Torque Curve



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## CERTIFICATION DATA SHEET

| | | | |
|---|---|---|---|
| **Model#:** | 256TTFCA6026 AA | **WINDING#:** | CHT25640001 NONE 2 |
| **CONN. DIAGRAM:** | A-EE7308K | **ASSEMBLY:** | F1/F2 CAPABLE |
| **OUTLINE:** | B-SS620244 | | |

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 20&15 | 14.9&11.2 | 1800 | 1768&1475 | 256T | TEFC | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 230/460#190/380 | 48/24-&45/22.5 | ACROSS THE LINE | CONTINUOUS | F7 | 1.15/1.15 | 40 | 3300 |

| FULL LOAD EFF: 93&92.4 | 3/4 LOAD EFF: 93 | 1/2 LOAD EFF: 92.4 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---|---|---|---|---|---|
| **FULL LOAD PF: 82&82.5** | **3/4 LOAD PF: 78** | **1/2 LOAD PF: 68** | 92.4 | SQ CAGE IND RUN | 19.6 / 9.8 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 60 LB-FT | 276 / 138 | 116 LB-FT 192 | 165 LB-FT 278 | 60 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 65 dBA | 75 dBA | 3.2 LB-FT^2 | 125 LB-FT^2 | 20 SEC. | 2 | 380 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 | NONE | FALSE | NONE | BLUE (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| DE | OPE | | | | | | |
| BALL 6309 | BALL 6209 | 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: NONE
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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