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# General Purpose Motors

**Model No:** 365TSTFCD6003
**Catalog No:** GT1242A

General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 365TSC Frame, TEFC

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**Product Information Packet: Model No: 365TSTFCD6003, Catalog No: GT1242A  General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 365TSC Frame, TEFC**

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **75 & 60 Hp** |
| Output KW | **56.0 & 45.0 kW** | Voltage | **230/460 & 190/380 V** |
| Speed | **3568 & 2970 r/min** | Synchronous RPM | **3600 & 3000 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **365TSC** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **94.1 & 93.6 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **168/84 & 163/81.5 A** |
| Power Factor | **88** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **6313** |
| Opp Drive End Bearing Size | **6213** | UL | **Listed** |
| CSA | **Y** | CE | **Y** |
| IP Code | **55** | Number of Speeds | **1** |
| Hazardous Location | **DIVISION 2 T2B** | | |

## Technical Specifications

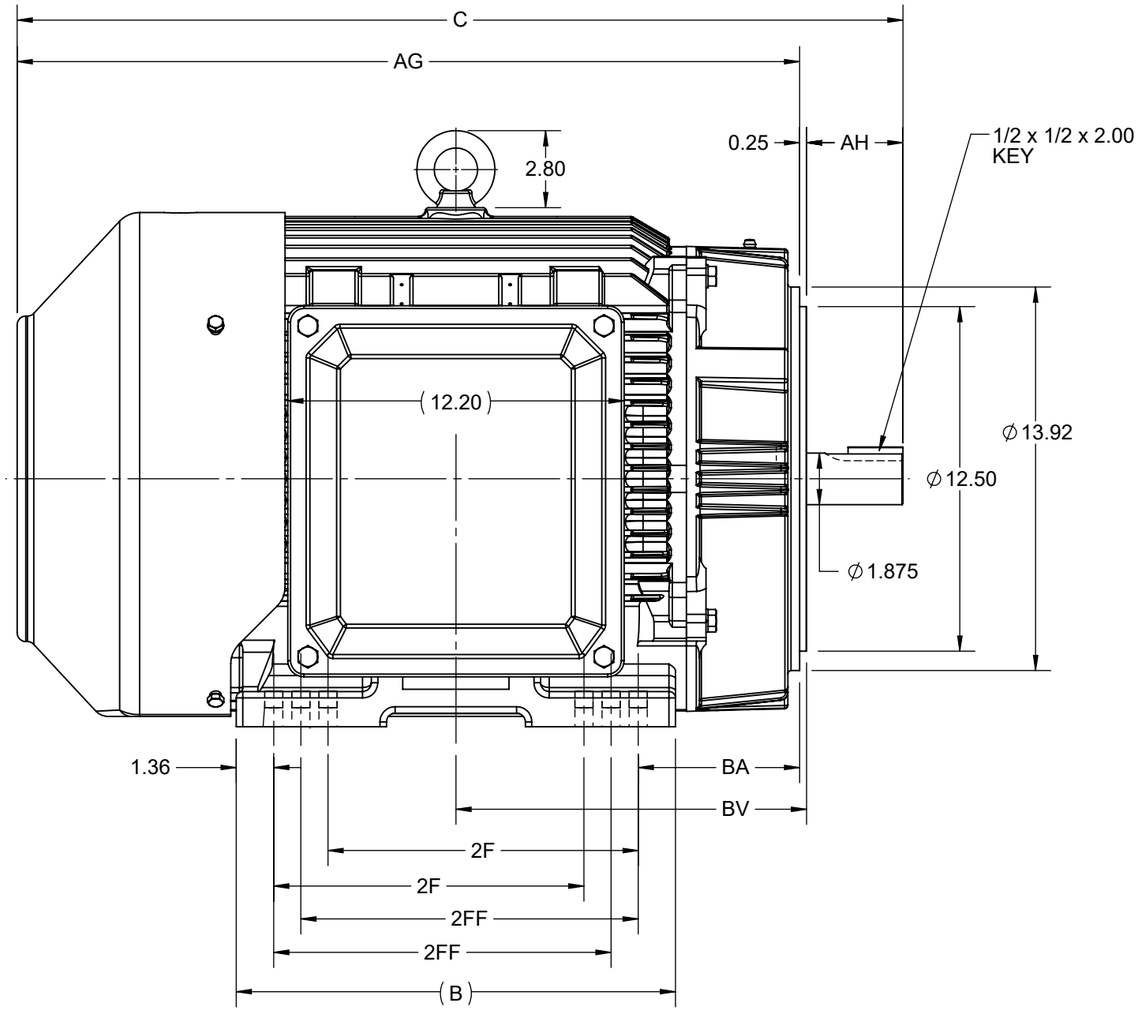
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter** |
| Poles | **2** | Rotation | **Reversible** |
| Resistance Main | **.0827 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **TS** | Overall Length | **32.17 in** |
| Frame Length | **16.73 in** | Shaft Diameter | **1.875 in** |
| Shaft Extension | **3.75 in** | Assembly/Box Mounting | **F1/F2 Capable** |
| Inverter Load | **Constant 2:1/Variable 10:1** | | |

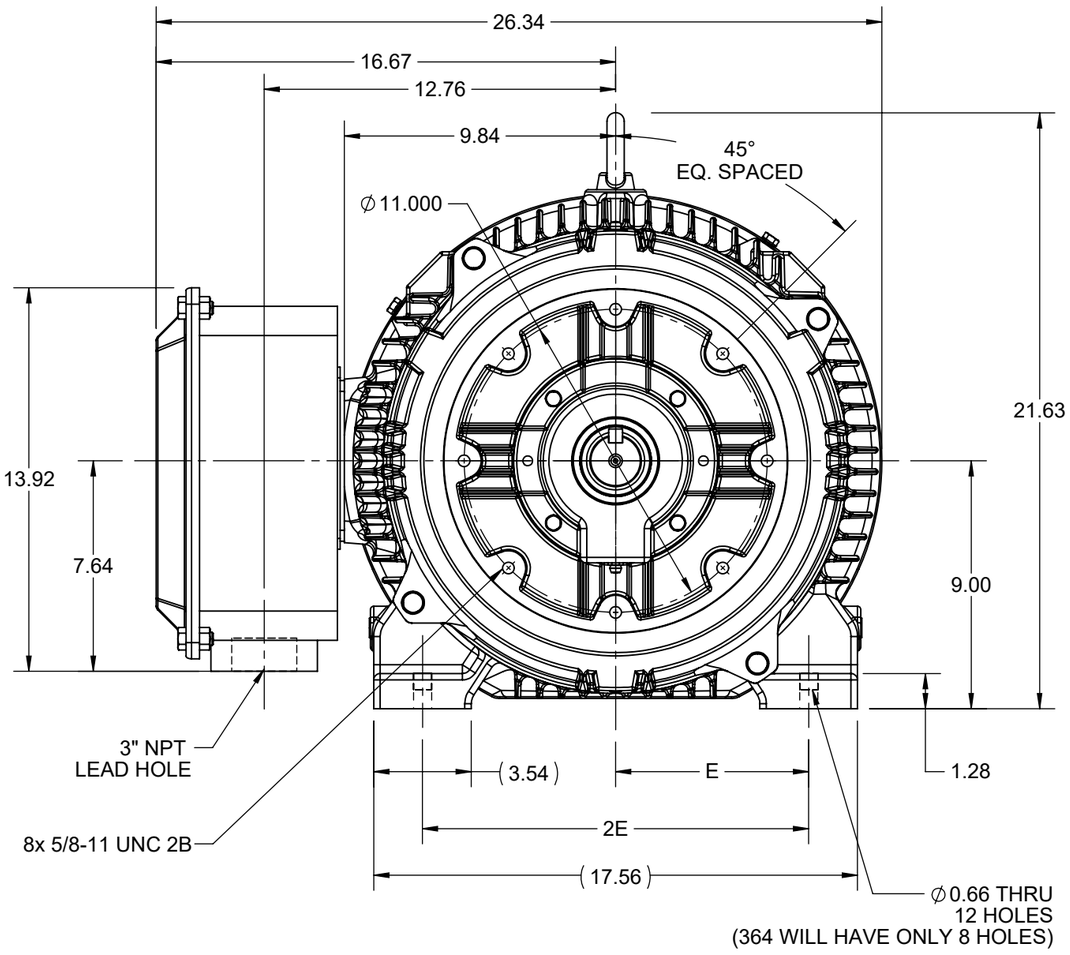
## Drawings

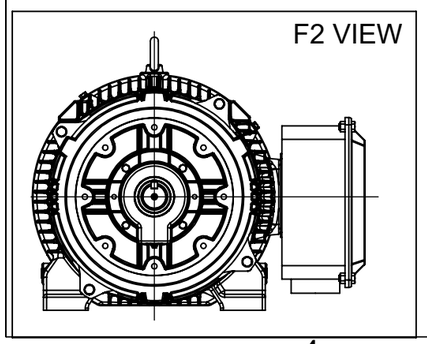
| | | | |
|---|---|---|---|
| Connection Drawing | **EE7308AA** | Outline Drawing | **SS557000-200** |

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| DASH NO. | B | C | E | 2E | 2F | 2FF | AG | AH | BA | BV | MOUNTING | FRAME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 14.96 | 31.17 | 7.00 | 14.00 | - | 11.25 | 27.41 | 3.50 | 5.88 | 12.23 | F1 OR F2 | 364TSC |
| 200 | 15.94 | 32.17 | | | 11.25 | 12.25 | 28.41 | | | 12.73 | | 364/365TSC |




| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| D | SB | 08/20/2025 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0023556 | SBD | 08/20/2025 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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

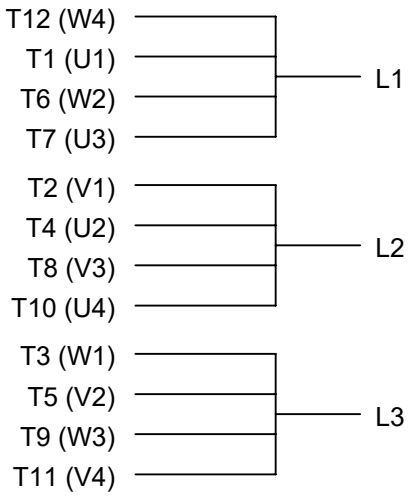
| | |
|---|---|
| DRAWN BY | NIV |
| DATE | 29/03/2016 |
| APPROVED BY | SBD |
| DATE | 29/03/2016 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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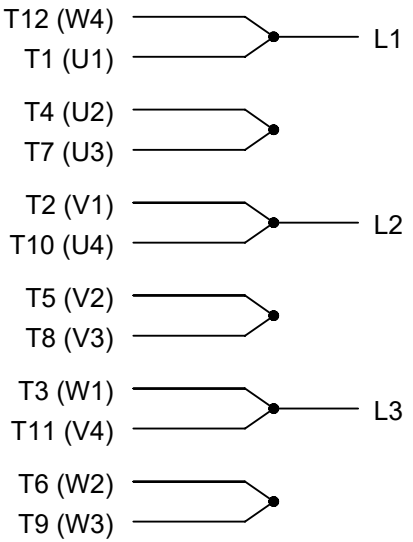
DESCRIPTION
OUTLINE
360TSC FR-TEFC

MATERIAL | PROCESS/FINISH

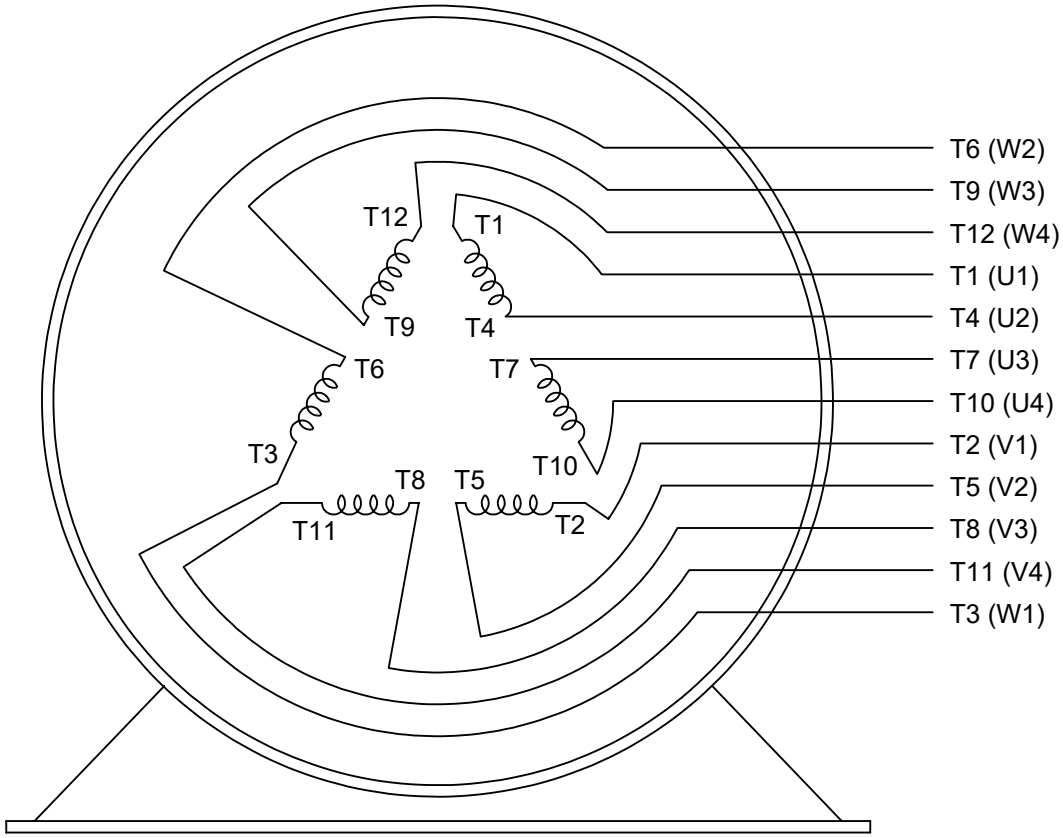
| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| B | SS557000 | 1 OF 1 |




LOW VOLTAGE




HIGH VOLTAGE




VIEW OF TERMINAL END

| | | | | | |
|---|---|---|---|---|---|
| DRAWING REVISION: L | REVISION BY: SB | REV DATE/© DATE: 08/01/2025 | PRIMARY DIMENSIONS ARE INCH<br>mm DIMENSIONS IN [BRACKETS]<br>ARE FOR REFERENCE ONLY | DRAWN BY: LZ | marathon™ |
| REQUEST NUMBER: CR-0023654 | APPROVED BY: SBD | DATE: 08/01/2025 | | DATE: 01-12-1994 | |
| REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED | | | | APPROVED BY: GK | DESCRIPTION: CONN DIAGRAM-EXTERNAL<br>3Ø-2/1 DELTA-12 LEADS |
| | | | | DATE: 01-14-1994 | |
| | | | | REFERENCE | MATERIAL / PROCESS/FINISH |
| | | | | THIRD ANGLE PROJECTION | SIZE: A / DRAWING NUMBER: EE7308AA / SHEET: 1 OF 1 |

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# Data Sheet

**Date:** 5/3/2018
**Customer:**
**Attention:**
**Submitted by:** FAREEDA DUDEKULA

marathon® electric

**365TSTFCD6003**

**Submittal**

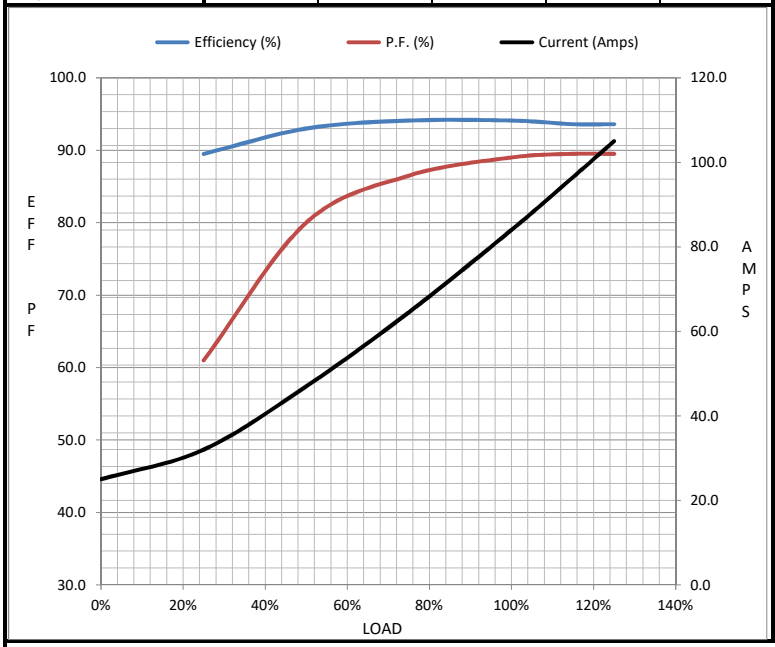
**Data @ 460 V**

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 25.0 | 32.0 | 47.0 | 64.5 | 84.0 | 96.5 | 105 | 542 | |
| Torque (ft-lb) | 0.00 | 27.4 | 54.8 | 82.4 | 110 | 127 | 138 | 204 | |
| RPM | 3600 | 3592 | 3584 | 3576 | 3570 | 3,562 | 3558 | 0 | |
| Efficiency (%) | | 89.5 | 93.0 | 94.1 | 94.1 | 93.6 | 93.6 | | |
| P.F. (%) | 8.0 | 61.0 | 80.0 | 86.5 | 89.0 | 89.5 | 89.5 | 29.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 1800 | 3445 | 3570 | 3600 |
| Current (Amps) | 542 | 432 | 315 | 84.0 | 25.0 |
| Torque (ft-lb) | 204 | 153 | 308 | 110 | 0.00 |

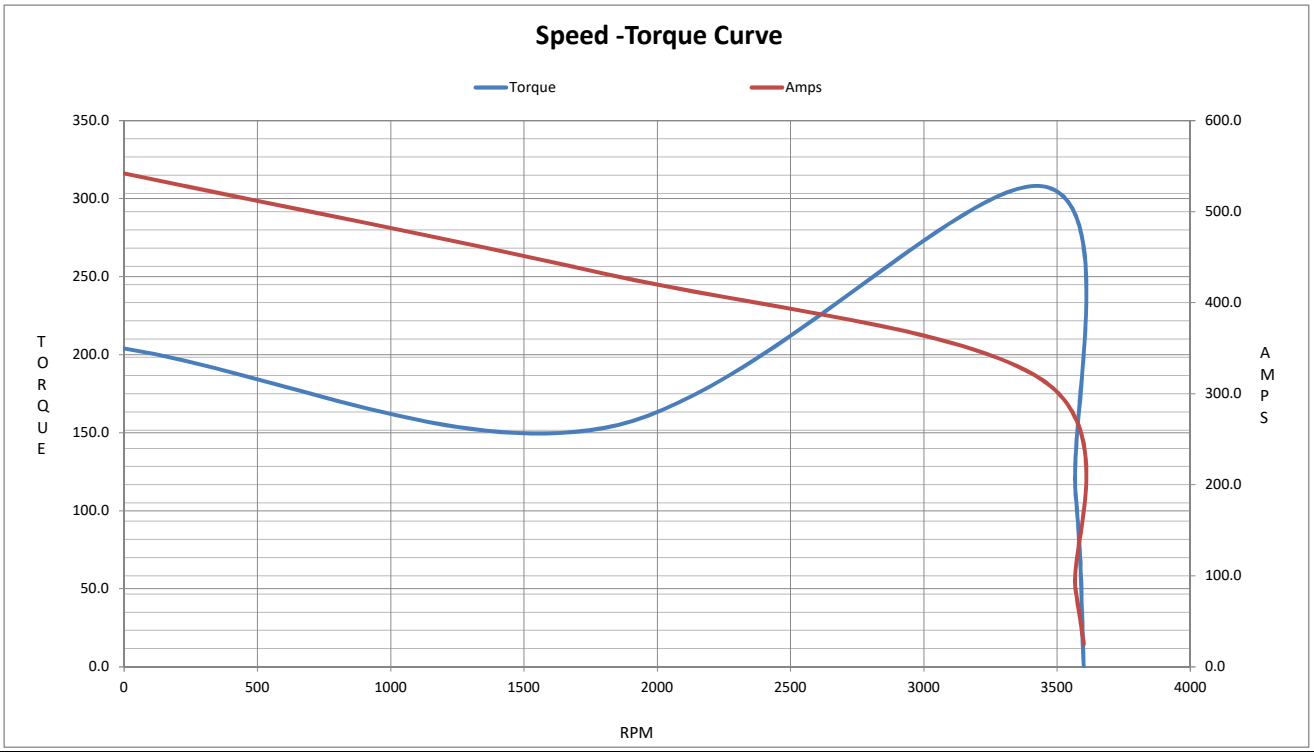



## Information Block

| | |
|---|---|
| HP | 75.0 |
| Sync. RPM | 3600 |
| Frame | 365182TTFC6080 |
| Enclosure | TEFC |
| Construction | TFC |
| Voltage | 230/460#190/380 V |
| Frequency | 60 Hz |
| Design | A |
| LR Code letter | G |
| Service Factor | 1.15 |
| Temp Rise @ FL | 70 ° C |
| Duty | CONT |
| Ambient | 40 ° C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk² | 9.5 Lb-Ft² |
| Ref Wdg | HE32252005 NONE |
| Sound Pressure @ 1M | 75 dBA |
| VFD Rating | VARIABLE 10:1 |
| Outline Dwg | SS557000 |
| Conn. Diag | EE7308AA |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.0490 | 0.0290 | 0.2680 | 0.3600 | 10.4730 |



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

DATA VOLTS: 460

# CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7308AA
OUTLINE: SS557000
WINDING: HE32252005 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 365TSTFCD6003
CAT #: GT1242A
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|---|
| 75 | 56 | 3600 | 3570 | 365TSC | TEFC | TFC | G | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 230/460#190/380 | 168/84&163/81.5 | Y START D RUN OR INV | CONT | F | 1.15 | 40 | 3300 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F.L. EFF | 94.1 | 3/4 LD EFF | 94.1 | 1/2 LD EFF | 93.0 | GTD EFF | ELECT. TYPE |
| F.L. PF | 89.0 | 3/4 LD PF | 86.5 | 1/2 LD PF | 80.0 | 93.0 | SQ CAGE INV RATED |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | | B.D. TORQUE | | F.L. RISE (°C) | |
|---|---|---|---|---|---|---|---|
| 110 LB-FT | 542 | 204 LB-FT | 185% | 308 LB-FT | 280% | 70 | |

| @ 3 FT. | POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|---|---|---|---|---|---|---|
| 75 dBA | 84 dBA | 9.5 LB-FT² | 50 LB-FT² | 15 SEC. | 2 | 1050 LB. |

## *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| C-FACE | STANDARD | RIGID | HORIZONTAL | NO | DIVISION 2 T2B | NO | NONE | BLUE - MARATHON |

| BEARINGS DE | BEARINGS ODE | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| BALL 6313 | BALL 6213 | POLYREX EM | TS | NONE | NONE | 1045 HOT ROLLED (C-204) | 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) | FLOAT |
|---|---|---|---|---|---|---|
| 0.049 | 0.029 | 0.268 | 0.36 | 10.473 | 0.080 | ODE |

*
NOTES
*

INVERTER TORQUE: 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: FAREEDA DUDEKULA
DATE: 5/3/2018

FORM: 3531 REV_4 2/27/06

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