# PRODUCT INFORMATION PACKET

Model No: 405TSTFS4001
Catalog No: E807
Other Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM, 405TS Frame, TEFC

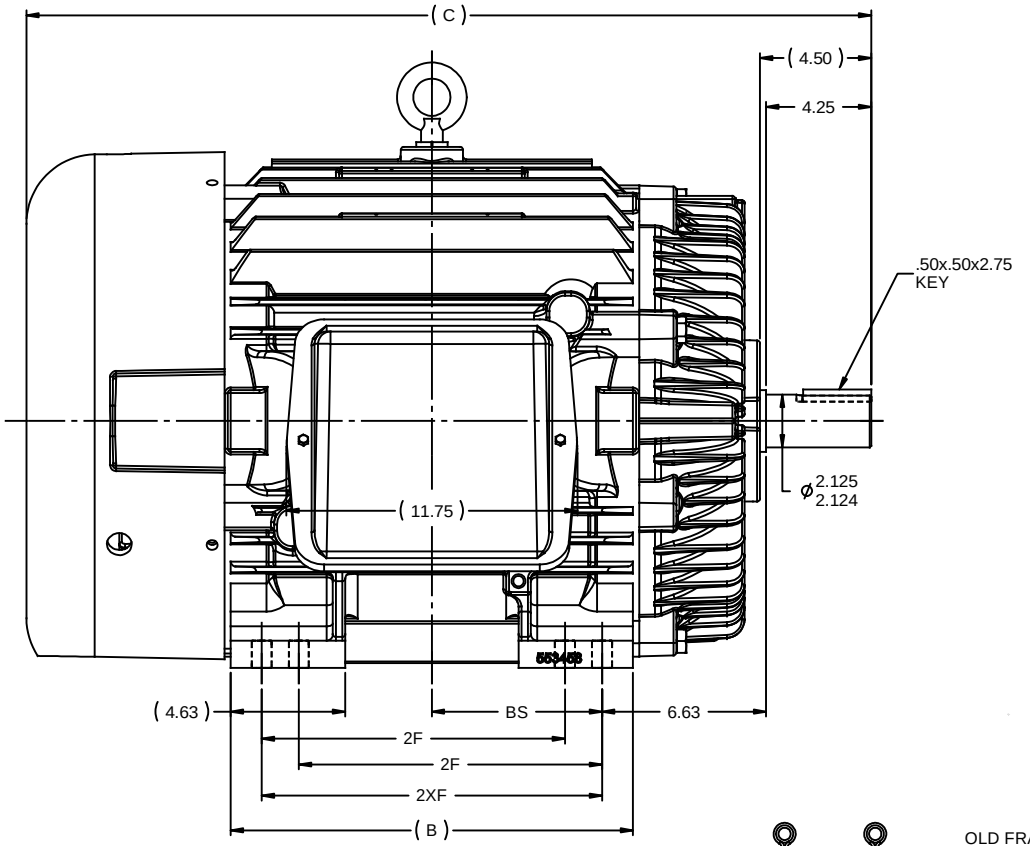
marathon® Motors

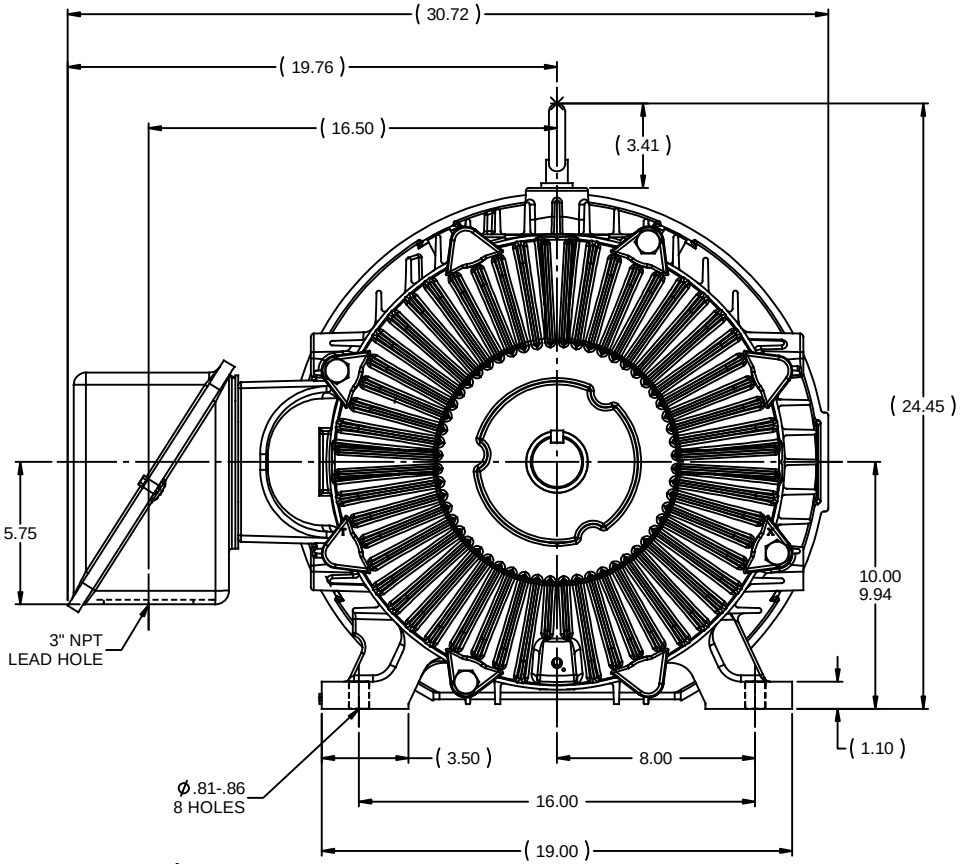
## Nameplate Specifications

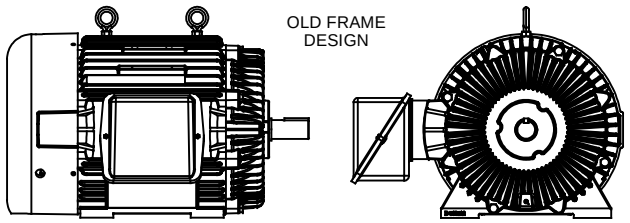
| | | | |
|---|---|---|---|
| Phase | 3 | Output HP | 100 & 75 Hp |
| Output KW | 75.0 & 56.0 kW | Voltage | 230/460 & 190/380 V |
| Speed | 3565 & 2965 rpm | Service Factor | 1.15 & 1.0 |
| Frame | 405TS | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 94.1 & 94.1 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 220/110 & 200/100 A | Power Factor | 90.5 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Drive End Bearing Size | 6313 | Opp Drive End Bearing Size | 6313 |
| 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 | 2 | Rotation | Reversible |
| Resistance Main | .06 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | TS | Overall Length | 34.13 in |
| Frame Length | 16.75 in | Shaft Diameter | 2.125 in |
| Shaft Extension | 4.5 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Outline Drawing | B-SS509125-1675 | Connection Drawing | A-EE7308K |




NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

| DASH | FRAME | B | C | BS | 2F | 2XF | |
|---|---|---|---|---|---|---|---|
| 1525 | 404TS | 14.75 | 32.63 | 6.12 | 12.25 | --- | |
| 1675 | 404/405TS | 16.25 | 34.13 | 6.88 | 12.25 | 13.75 | |

| NO | REVISION | BY & DATE | CHK |
|---|---|---|---|
| 8 | REDRAWN IN SOLIDWORKS W/ L.W. FRAME MU98878 | EDK 11/29/2010 | MH |
| 7 | UPDATED FRAME & ADDED 404 INFO CN27430 | KL 10-25-2005 | |
| 6 | REDRAWN IN AUTOCAD | TAT 06-29-2004 | |
| 5 | ADDED NEMA 'O' DIM. | MRB 09-12-1996 | |
| 4 | REDRAWN ON CADD | TLB 05-19-1988 | |

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±7'30"

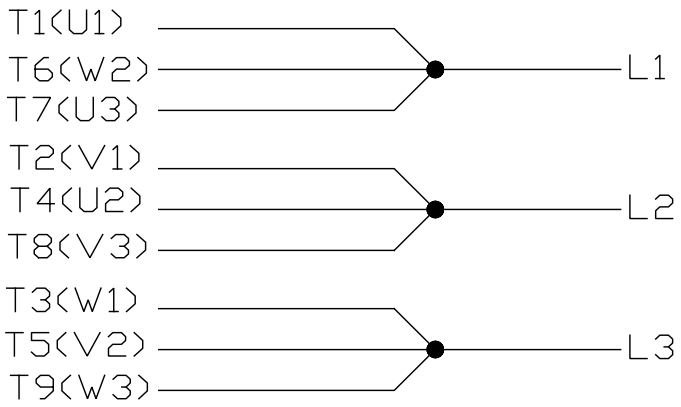
THIRD ANGLE PROJECTION

MARATHON ELECTRIC

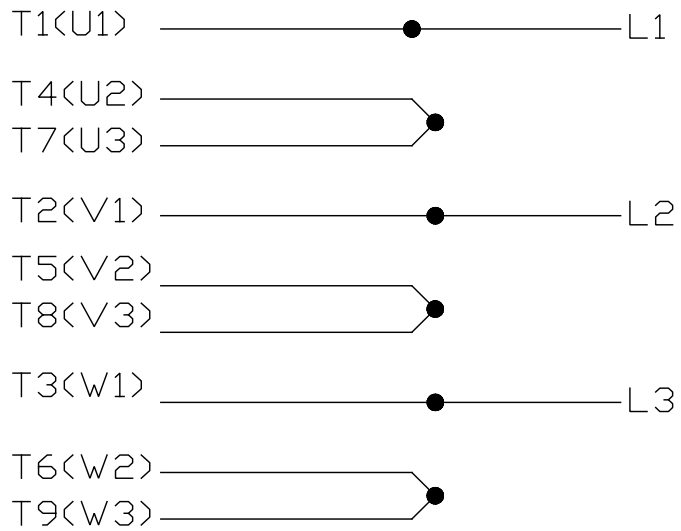
| | |
|---|---|
| DRAWN | TLB 05-19-1988 |
| CHK | FG 05-20-1988 |
| APPR | ML 05-22-1998 |
| TITLE | OUTLINE<br>400TS/US FR. - TEFC - STD. |
| SCALE | 1:5 |
| REF | |
| MAT'L | |
| FMF | |
| FINISH | |
| PAGE | OF |
| RFP | |
| PREV | |
| NETWORK FILE NAME | SS509125 |
| SIZE | B |
| DRAWING NO | SS509125 |
| REV | 8 |

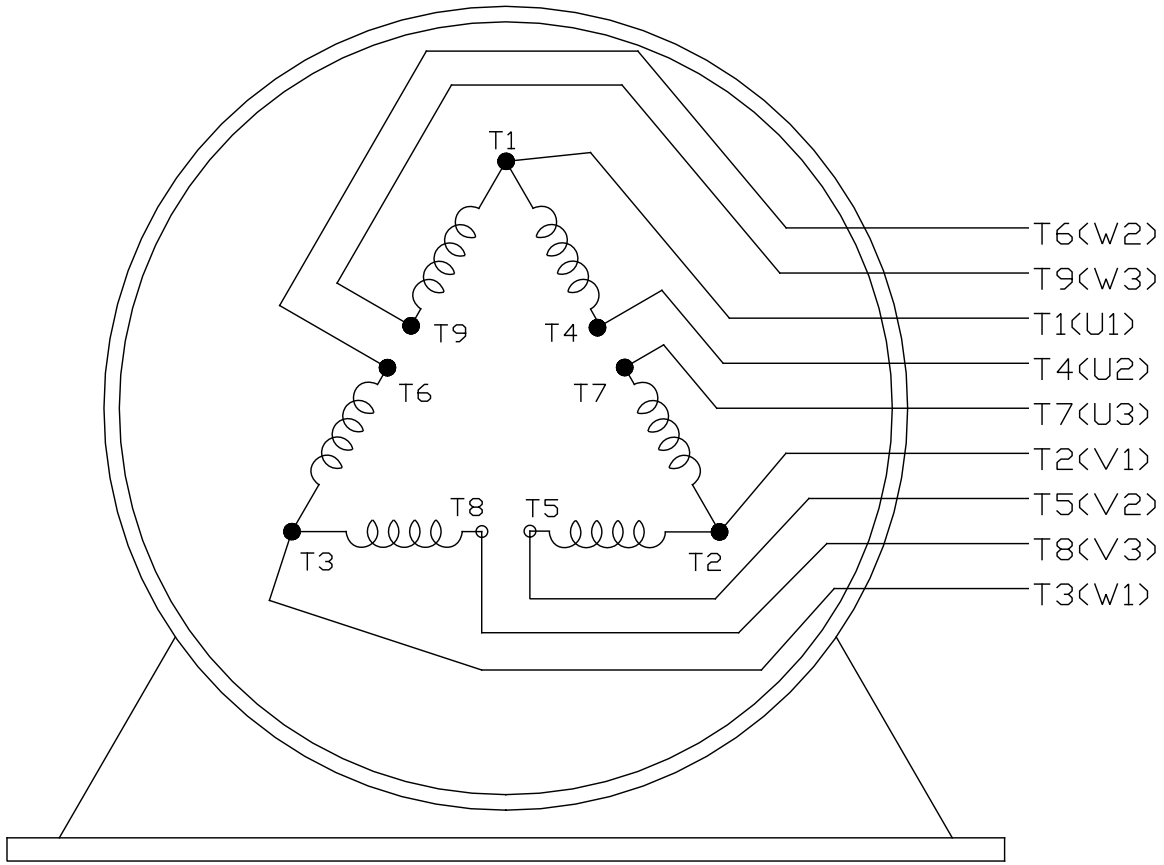
EE7308K

## LOW VOLTAGE




## HIGH VOLTAGE




VIEW OF TERMINAL END

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| E | CORRECTED IEC MARKINGS ECO-0111208 | WGJ 01-23-2017 | EMH |
| D | RE-DRAWN WITH REGAL LOGO ECO-0110493 | WGJ 09-30-2016 | EMH |
| 8 | ADDED IEC DESIGNATIONS MU95020 | TJW 4/30/2010 | MJS |
| 7 | REVISD HIGH VOLTAGE L2 WAS L3 CN52600-354 | MRB 09-21-1998 | |
| 6 | REDRAWN ON CADD | PGK 06-05-1997 | |

TOLERANCES UNLESS SPECIFIED

| DEC. | INCHES |
|---|---|
| .X | ±.1 |
| .XX | ±.02 |
| .XXX | ±.005 |
| .XXXX | ±.0005 |
| ANG | ±7'30" |

REGAL - BELOIT CORPORATION

TITLE: CONNECTION DIAGRAM
DELTA CON. - 3Ø - 9 LEADS

MAT'L.

FINISH

CAD FILE EE7308K

RFP

DIST

DRAWN PGK 06-04-1997
CHK ML 06-05-1997
APPD GK 06-15-1997
SCALE
REF
FMF
PREV

SIZE A | DRAWING NO. EE7308K | PAGE OF | REV. E