

PRODUCT INFORMATION PACKET

Model No: 404THFS8092
Catalog No: Y587
60,1200,TEBC,404TC,3/60/230/460
2000:1 With Encoder Provision



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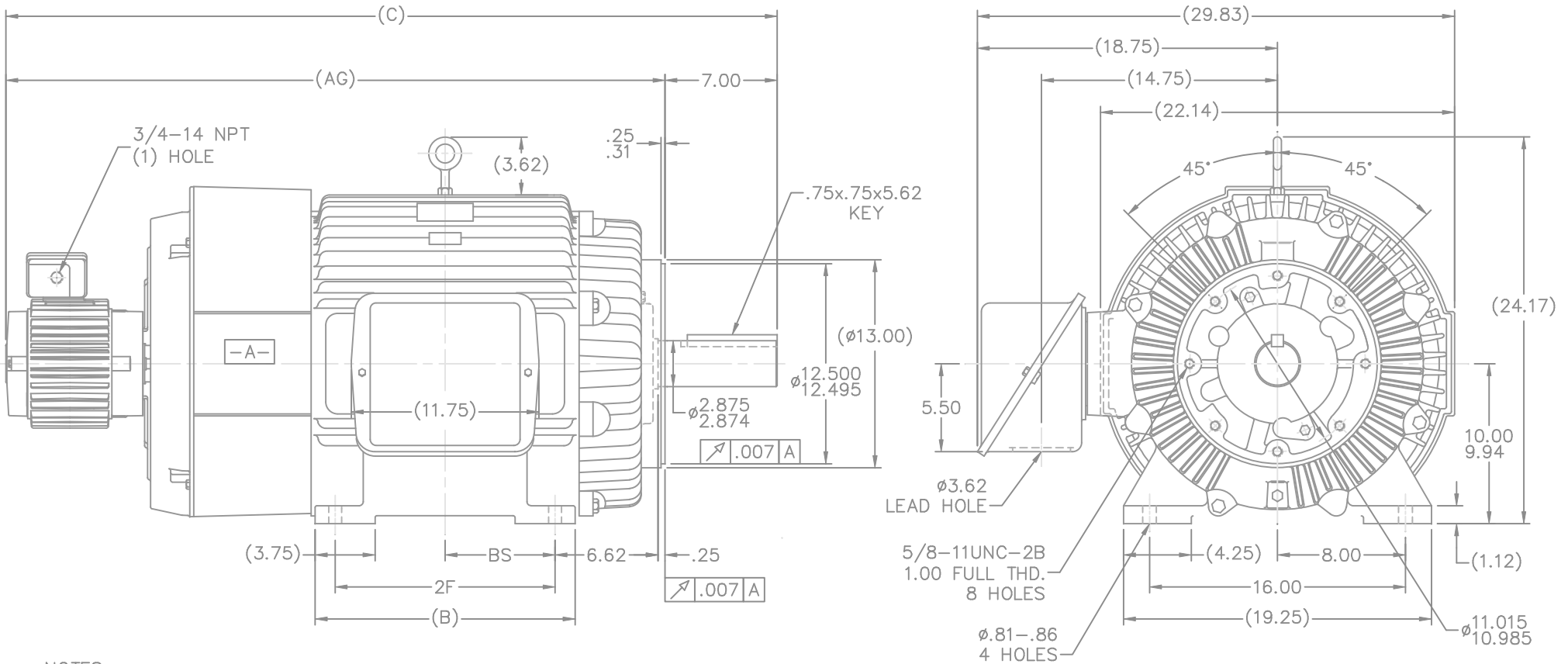
Nameplate Specifications

| | | | |
|----------------------------|-------------------|------------------------|-------------------|
| Output HP | 60 Hp | Output KW | 45 kW |
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 142/71 A | Speed | 1180 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 92.4 % | Duty | CONTINUOUS |
| Insulation Class | H | Design Code | INV |
| KVA Code | H | Frame | 404TC |
| Enclosure | TEBC-AXIAL | Overload Protector | NOT |
| Ambient Temperature | 40 °C | Drive End Bearing Size | 6316 |
| Opp Drive End Bearing Size | 6313 | UL | Recognized |
| CSA | Y | CE | Y |
| IP Code | 43 | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------|-----------------------|----------------------|
| Electrical Type | SQ CAGE INV DUTY | Starting Method | INVERTER ONLY |
| Poles | 6 | Rotation | REV |
| Mounting | RIGID | Motor Orientation | HORIZONTAL |
| Drive End Bearing | BALL | Opp Drive End Bearing | BALL |
| Frame Material | CAST IRON | Shaft Type | T |
| Overall Length | 48.22 in | Frame Length | 15.25 in |
| Shaft Diameter | 2.88 in | Shaft Extension | 7 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | | |
| Outline Drawing | B-SS518552-1525 | Connection Diagram | A-EE7308T |

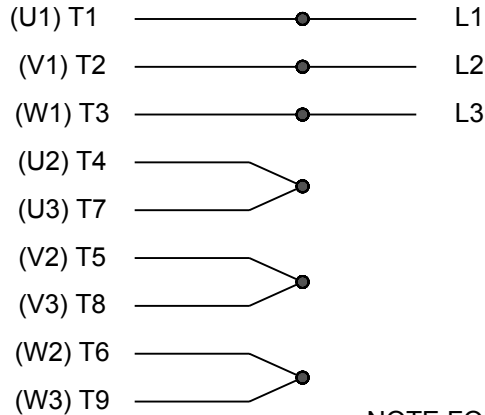
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- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

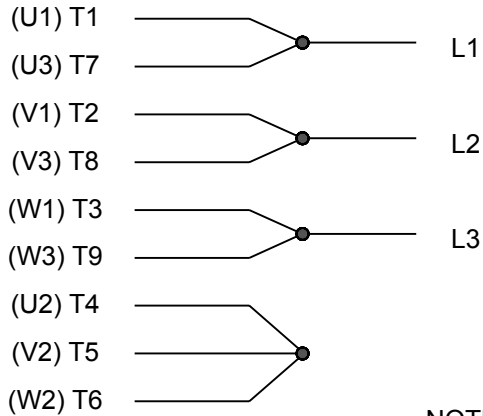
| | | | | | | | | TOLERANCES UNLESS SPECIFIED | | MARATHON ELECTRIC | | DRAWN HLB 07-24-2001 | | | | | | |
|--|--|--|--|--|--|--|--|--|----------|---------------------------|--------|----------------------|---------------|----------|-------------|------|----|------|
| | | | | | | | | DEC. | INCHES | | | CHK | ML 08-01-2001 | | | | | |
| | | | | | | | | .X | ±.1 | TITLE OUTLINE | | APPD | GK 08-01-2001 | | | | | |
| | | | | | | | | .XX | ±.03 | 400TC FR. - TEBC - C'FACE | | SCALE | 1=6 | | | | | |
| | | | | | | | | .XXX | ±.005 | MAT'L | | REF | | | | | | |
| | | | | | | | | .XXXX | ±.0005 | FINISH | | FMF | | | | | | |
| | | | | | | | | NO. | REVISION | CAD FILE SS518552 | | PREV | | | | | | |
| | | | | | | | | THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT | | | | RFP | | SIZE | DRAWING NO. | PAGE | OF | REV. |
| | | | | | | | | CHK | ANG | ±1/2" | FINISH | | B | SS518552 | 1 | 2 | | |
| | | | | | | | | DIST | WA | | | | | | | | | |

HIGH VOLTAGE

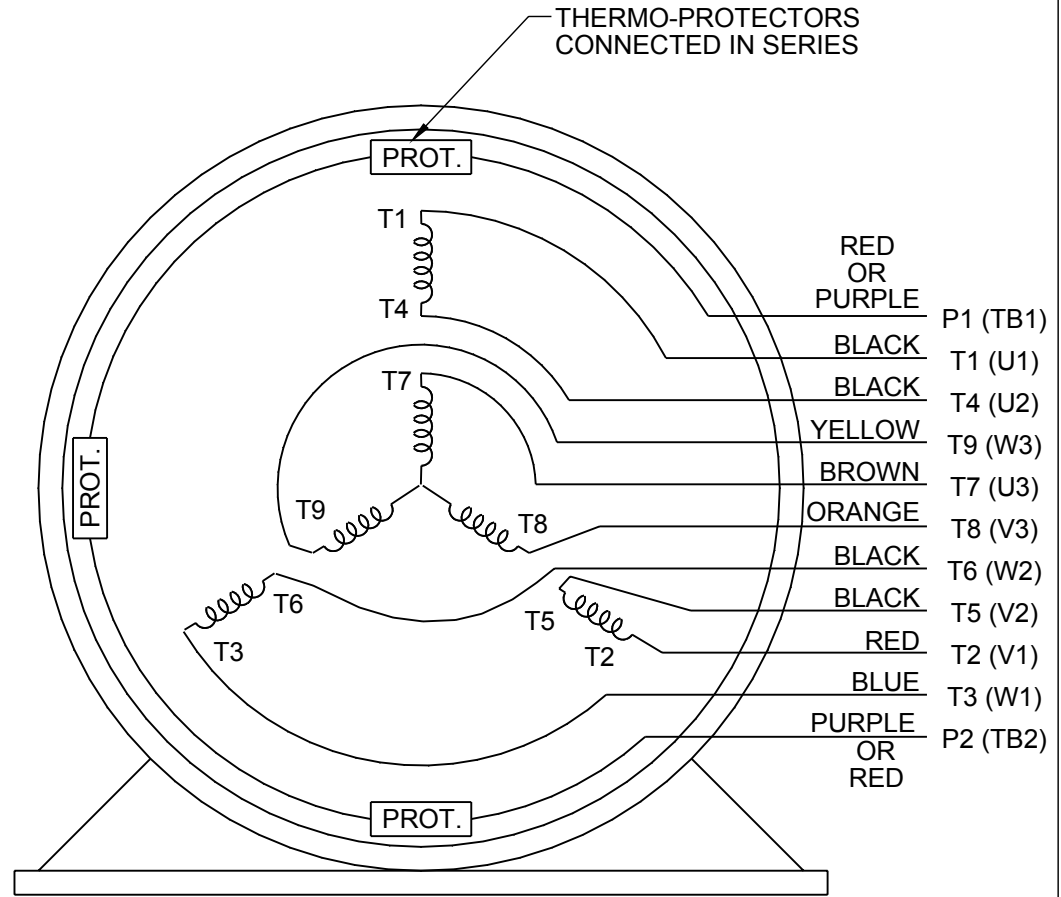


NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1

LOW VOLTAGE



THREE PHASE
 DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

| | | | | | |
|---|-----------------------|--------------------|----------------------------|--------------------|---|
| DRAWING REVISION R | REVISION BY AJW | DATE 07-17-2015 | | DRAWN BY SMC | Regal Beloit America, Inc. |
| ECO ECO-0081632 | APPROVED BY T. VUE | DATE 07-17-2015 | | DATE 05-13-1992 | |
| ECO DESCRIPTION REV'D IEC NOTATIONS PER IEC 60034-8 | | | | APPROVED BY TB | DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR |
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| | | | REFERENCE EE7308/EE7300 | SIZE A | DRAWING NUMBER EE7308T |

| | | | |
|------------|--------|---------|--|
| NONE | NONE | | |
| NONE FT-LB | NONE V | NONE Hz | |

DATE: 06/21/2017 07:45:36 AM
FORM 3531 REV.3 02/07/99
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Data Sheet

Date: 29-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



404THFS8092

Submittal

Data @ 460 V

Motor Load Data

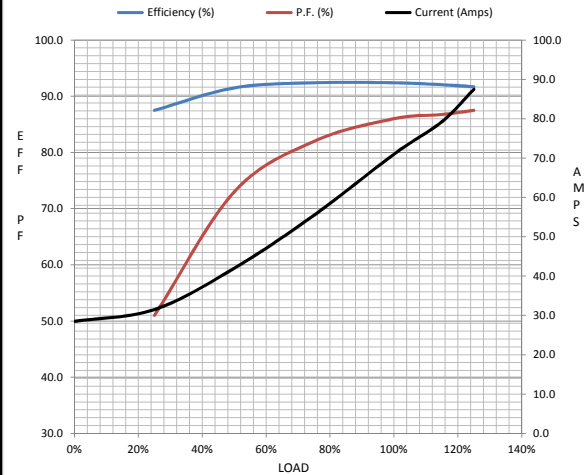
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 28.5 | 31.5 | 42.0 | 55.5 | 71.0 | 79.3 | 87.5 | 510 |
| Torque (ft-lb) | 0.00 | 66.0 | 132 | 200 | 267 | 302 | 336 | 500 |
| RPM | 1200 | 1195 | 1190 | 1185 | 1180 | 1,177 | 1173 | 0 |
| Efficiency (%) | | 87.5 | 91.5 | 92.4 | 92.4 | 92.1 | 91.7 | |
| P.F. (%) | 7.0 | 51.0 | 73.0 | 82.0 | 86.0 | 86.8 | 87.5 | 35.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 600 | 1075 | 1180 | 1200 |
| Current (Amps) | 510 | 475 | 320 | 71.0 | 28.5 |
| Torque (ft-lb) | 500 | 475 | 850 | 267 | 0.00 |

Information Block

| | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 60.0 | | | |
| Sync. RPM | 1200 | | | |
| Frame | 404 | | | |
| Enclosure | TEBC | | | |
| Construction | TBS | | | |
| Voltage | 230/460 V | | | |
| Frequency | 60 Hz | | | |
| Design | A | | | |
| LR Code letter | H | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 68 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 35.5 Lb-Ft ² | | | |
| Ref Wdg | T404665 NONE | | | |
| Sound Pressure @ 1M | 88 dBA | | | |
| VFD Rating | CONSTANT 2000:1 | | | |
| Outline Dwg | B-SS518552-1525 | | | |
| Conn. Diag | A-EE7308T | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 365THFS8036 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0850 | 0.0680 | 0.3630 | 0.3000 | 8.8920 |



Speed -Torque Curve

