

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 405TTDS6060
Catalog No: E923
125,1800,DP,405T,3/60/460YD
Open Drip Proof (ODP)



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REGAL[®]



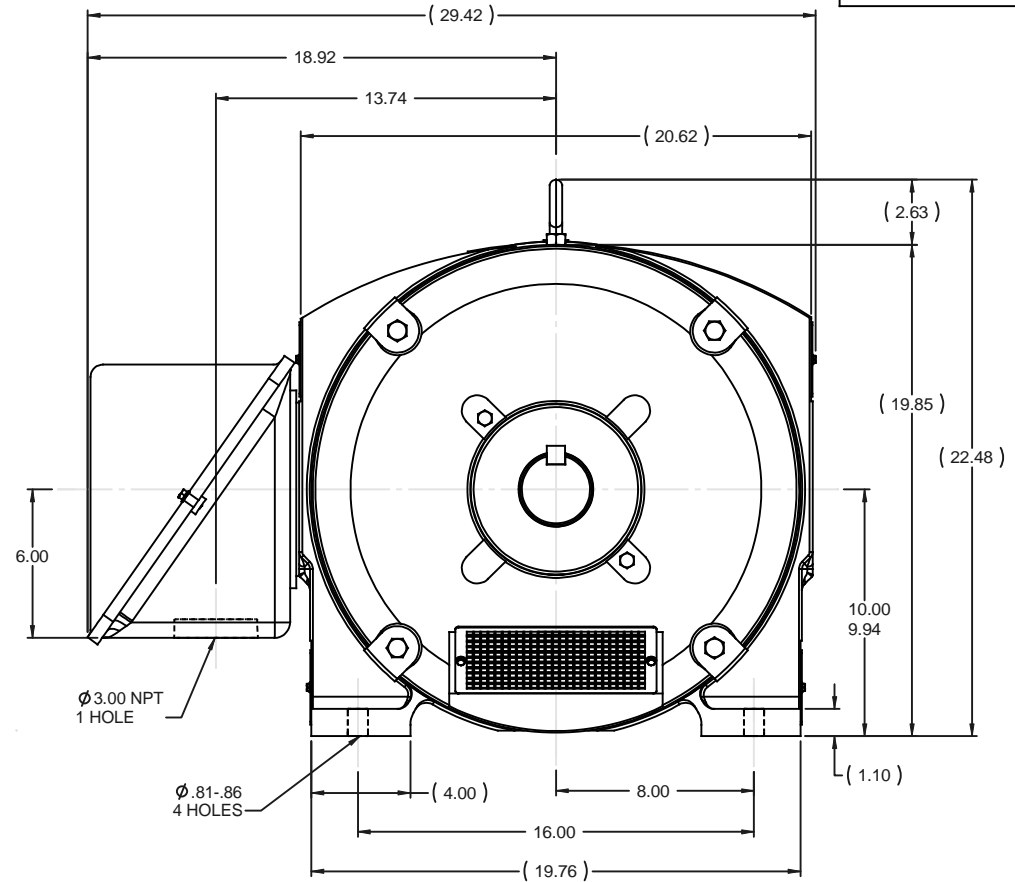
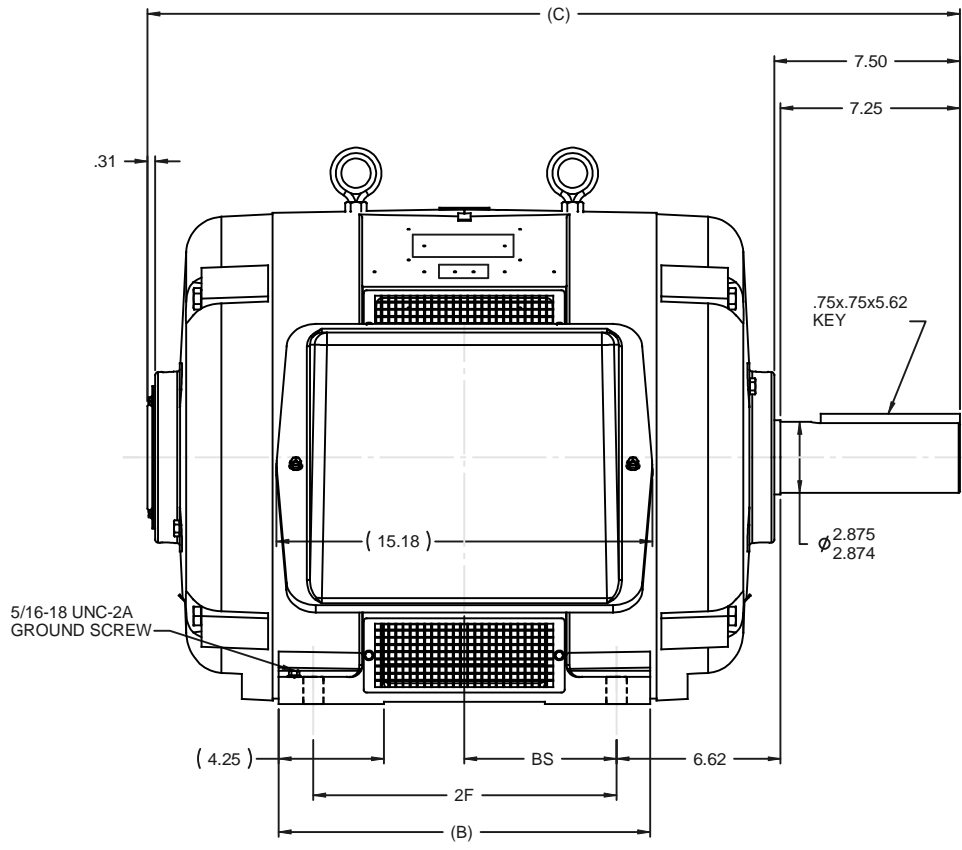
Nameplate Specifications

| | | | |
|----------------------------|-------------------|------------------------|-------------------|
| Output HP | 125 Hp | Output KW | 93.0 kW |
| Frequency | 60 Hz | Voltage | 460 V |
| Current | 141.0 A | Speed | 1782 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 95.4 % | Duty | Continuous |
| Insulation Class | F | Design Code | B |
| KVA Code | G | Frame | 405T |
| Enclosure | Drip Proof | Overload Protector | No |
| Ambient Temperature | 40 °C | Drive End Bearing Size | 6316 |
| Opp Drive End Bearing Size | 6313 | UL | Recognized |
| CSA | Y | CE | Y |
| IP Code | 12 | | |

Technical Specifications

| | | | |
|-----------------------|------------------------------------|-----------------------|---|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Part Wdg Start & Wye Start Delta Run |
| Poles | 4 | Rotation | Reversible |
| Mounting | Rigid base | Motor Orientation | Horizontal |
| Drive End Bearing | Ball | Opp Drive End Bearing | Ball |
| Frame Material | Cast Iron | Shaft Type | T |
| Overall Length | 34.31 in | Frame Length | 17.00 in |
| Shaft Diameter | 2.875 in | Shaft Extension | 7.5 in |
| Assembly/Box Mounting | F1/F2 Capable | | |
| Outline Drawing | B-SS513937-1700 | Connection Diagram | A-EE7300BH |

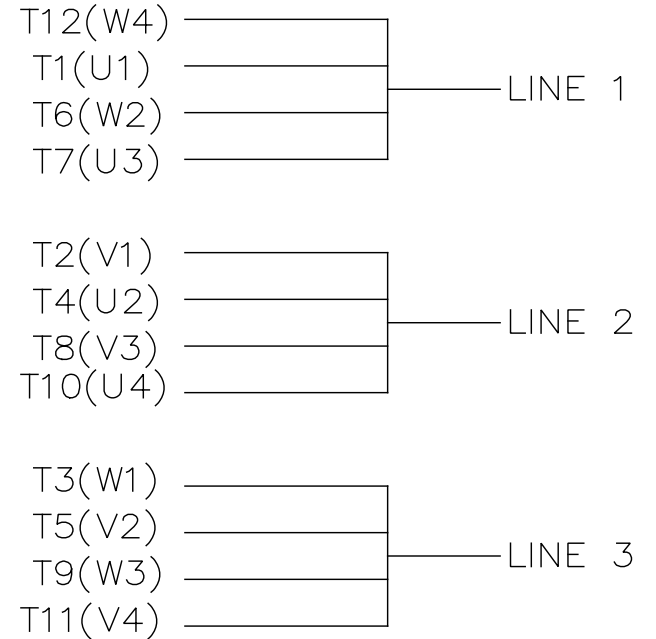
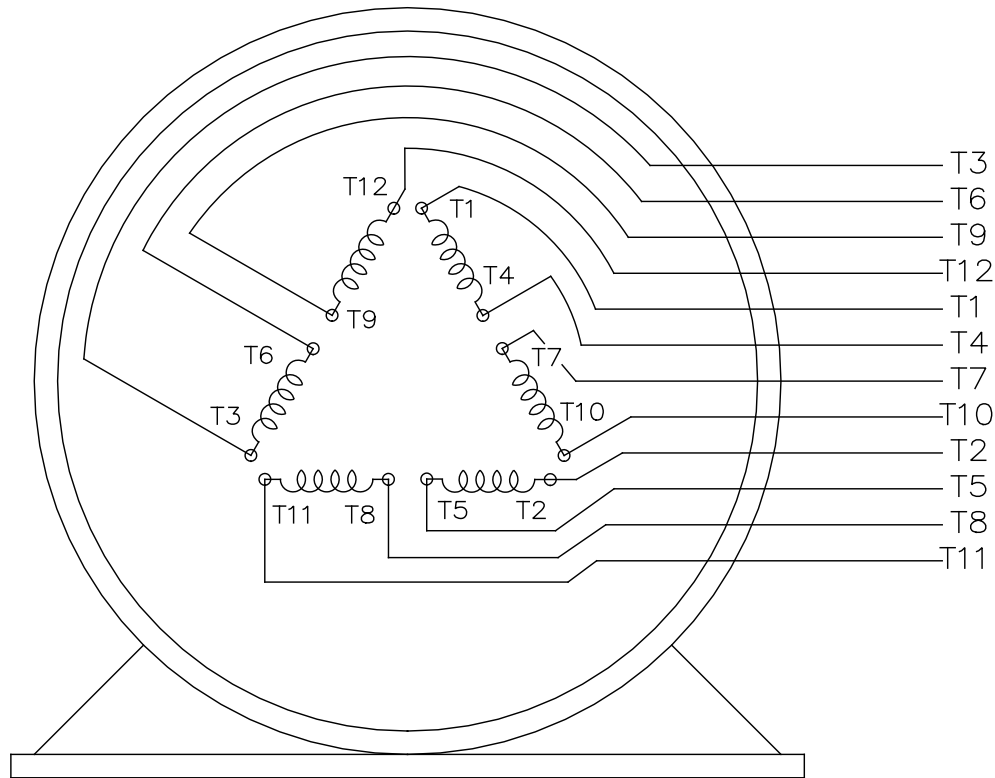
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- NOTES:
 1- BOX CAN BE ROTATED IN 90° STEPS
 2- BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 3- NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

| DASH | FRAME | B | C | 2F | BS |
|------|-------|-------|-------|-------|------|
| 1550 | 404T | 15.00 | 32.81 | 12.25 | 6.12 |
| 1700 | 405T | 16.50 | 34.31 | 13.75 | 6.88 |

| | | TOLERANCES UNLESS SPECIFIED | | MARATHON ELECTRIC | | DRAWN DA 02-06-1991 | |
|--|--|-----------------------------|--------|-------------------|--------|---------------------|-------------------|
| | | DEC | INCHES | | | CHK TB 02-11-1991 | |
| 4 | C'BOX LEAD HOLE WAS Ø2.50 NPT 2 HOLES CN 32922 | DRS 12-07-2004 | ML | x | ±.1 | APPR ML 02-11-1991 | |
| 3 | UPDATED C'BOX GEOMETRY CN 28063 | DRS 12-07-2004 | .XX | | ±.03 | SCALE 1:5 | |
| 2 | ADDED SCREENS TO FRONT & REAR BRACKETS 4041416 | DJK 06-18-1993 | .XXX | | ±.005 | REF | |
| 1 | NEW DRAWING CN 13005 | DA 02-06-1991 | .XXX | | ±.0005 | FMF | |
| NO | REVISION | BY & DATE | CHK | ANG | ±7'30" | FINISH | 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 | CAD FILE SS513937 |
| | | | | | | DIST | WA |
| | | | | | | SIZE | DRAWING NO |
| | | | | | | B | SS513937 |
| | | | | | | REV | 4 |



VIEW OF TERMINAL END

| | | | | TOLERANCES UNLESS SPECIFIED | | REGAL REGAL - BELOIT CORPORATION | DRAWN RJW 02-11-2005 | | | |
|--|------------------------------|-------------|----------------|-----------------------------|--------------|----------------------------------|----------------------|-------------|------------|------|
| | | | | DEC. | INCHES | | CHK | ML | 02-11-2005 | |
| | | | | .X | ±.1 | | APPD | GK | 02-11-2005 | |
| | | | | .XX | ±.02 | TITLE CONNECTION DIAGRAM | | SCALE | | |
| D | CHANGED TO REGAL TITLE BLOCK | ECO-0108299 | WGJ 08/22/2016 | EMH | .XXX ±.005 | 12 LEAD- SINGLE VOLTAGE | | REF | | |
| 1 | ADDED IEC TERMINAL MARKINGS | CN 41429 | JJB 05/24/2007 | ML | .XXXX ±.0005 | MAT'L. | | FMF | | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±7'30" | FINISH | | 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 | 02-11-2005 | CAD FILE ee7300bh | SIZE | DRAWING NO. | PAGE OF | REV. |
| | | | | DIST | LB | | A | EE7300BH | | C |

Data Sheet

4051TDS6060



Submittal
Data @ 460 V

Date: 6/19/2017

Customer:
Attention:
Submitted by:

FAREEDA DUDEKULA

Motor Load Data

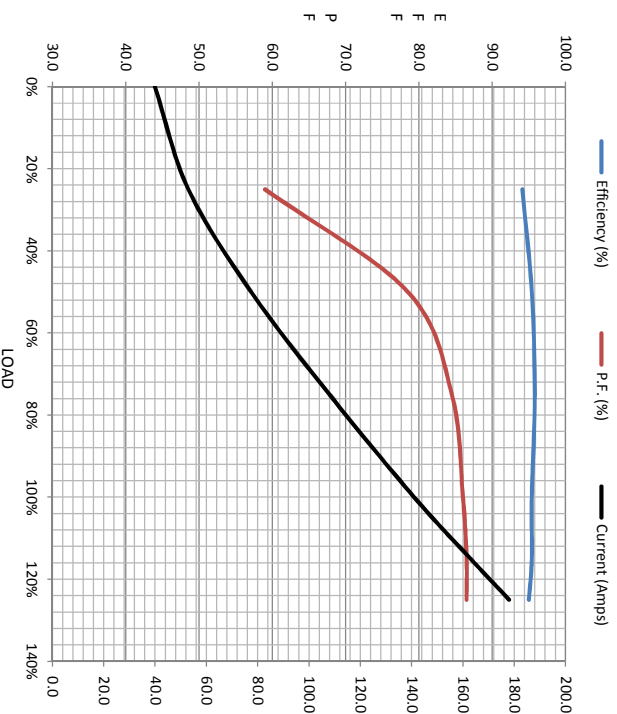
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 40.0 | 53.0 | 77.5 | 108 | 141 | 163 | 178 | 875 |
| Torque (ft-lb) | 0.00 | 91.5 | 183 | 276 | 368 | 423 | 462 | 550 |
| RPM | 1800 | 1796 | 1792 | 1785 | 1782 | 1,778 | 1775 | 0 |
| Efficiency (%) | | 94.1 | 95.4 | 95.8 | 95.4 | 95.4 | 95.0 | |
| P.F. (%) | 4.5 | 59.0 | 78.5 | 84.5 | 86.0 | 86.5 | 86.5 | 30.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (rpm) | 0 | 900 | 1700 | 1782 | 1800 |
| Current (Amps) | 875 | 765 | 475 | 141 | 40.0 |
| Torque (ft-lb) | 550 | 535 | 875 | 368 | 0.00 |

Information Block

| | |
|----------------------------|-----------------|
| HP | 125.0 |
| Sync. RPM | 1800 |
| Frame | 405 |
| Enclosure | DP |
| Construction | TDS |
| Voltage | 460#380 V |
| Frequency | 60 Hz |
| Design | A |
| LR Code letter | G |
| Service Factor | 1.15 |
| Temp Rise @ FL | 45 °C |
| Duty | CONT |
| Ambient | 40 °C |
| Elevation | 1,000 feet |
| Rotor/Shaft wkt | 27.0 Lb-Fe |
| Ret Wdg | T405479 NONE |
| Sound Pressure @ 1M | 80 dBA |
| VFD Rating | NONE |
| Outline Dwg | B-SS513937-1700 |
| Conn. Diag | A-EET300BH |
| Additional Specifications: | |
| 0 | |
| EQUIV CKT (OHMS / PHASE) | |
| R1 | R2 |
| 0.0310 | 0.0190 |
| X1 | X2 |
| 0.2360 | 0.2140 |
| Xm | Xm |
| | 6.3050 |



Speed - Torque Curve

