# PRODUCT INFORMATION PACKET

Model No: 254TTDBD6026
Catalog No: GT0059
15,1800,DP,254T,3/60/230/460
Open Drip Proof (ODP)

## Nameplate Specifications

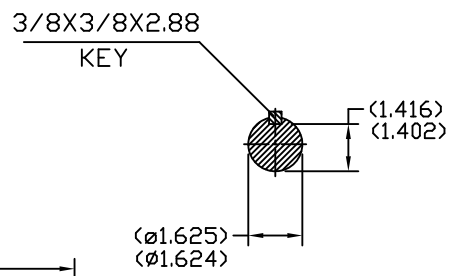
| | | | |
|---|---|---|---|
| Output HP | **15 Hp** | Output KW | **11.2 kW** |
| Frequency | **60 Hz** | Voltage | **230/460 V** |
| Current | **37.5/18.8 A** | Speed | **1774 rpm** |
| Service Factor | **1.15** | Phase | **3** |
| Efficiency | **93 %** | Duty | **Continous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **G** | Frame | **254T** |
| Enclosure | **Drip Proof** | Overload Protector | **No** |
| Ambient Temperature | **40 °C** | Drive End Bearing Size | **6309** |
| Opp Drive End Bearing Size | **6208** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **12** | | |

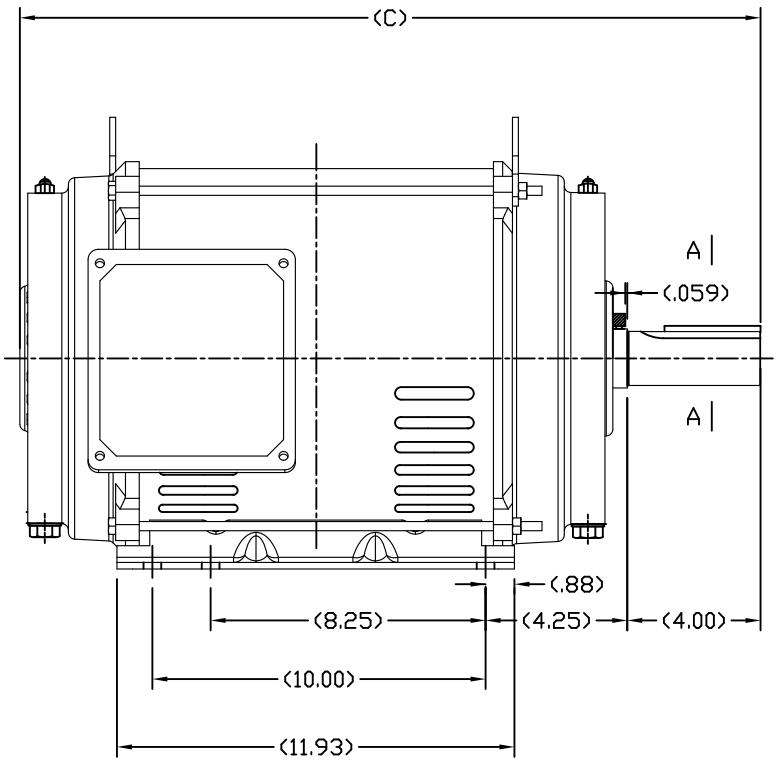
## Technical Specifications

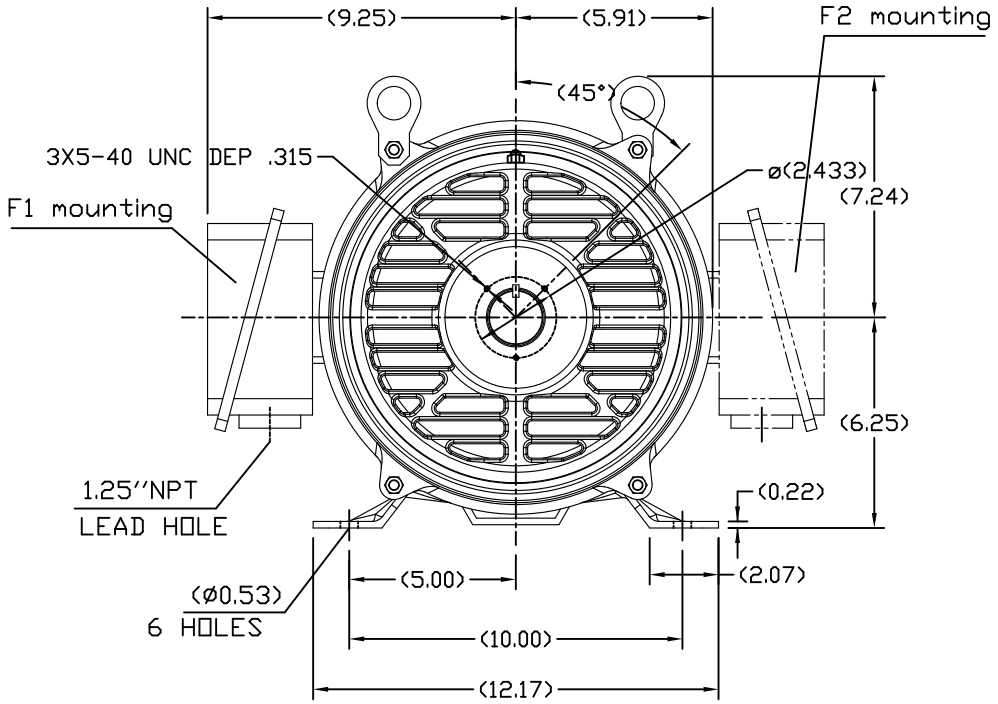
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Line Or Inverter** |
| Poles | **4** | Rotation | **Reversible** |
| Mounting | **Rigid base** | Motor Orientation | **Horizontal** |
| Drive End Bearing | **Ball** | Opp Drive End Bearing | **Ball** |
| Frame Material | **Rolled Steel** | Shaft Type | **T** |
| Overall Length | **22.64 in** | Shaft Diameter | **1.625 in** |
| Shaft Extension | **4 in** | Assembly/Box Mounting | **F1/F2 Capable** |
| Outline Drawing | **B-SS620685** | Connection Diagram | **A-EE7308K** |

SS620685

A - A




| | |
|---|---|
| 254T | 22.64 |
| 256T | 24.22 |
| FRAME | C |

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| | | | |

TOLERANCES UNLESS SPECIFIED

| DEC. | INCHES |
|---|---|
| .X | ±.1 |
| .XX | ±.03 |
| .XXX | ±.005 |
| .XXXX | ±.0005 |
| ANG | ±1/2° |

REGAL REGAL-BELOIT CORPORATION

DRAWN Xiaowei Zhu
CHK
APPD
SCALE
REF
FMF REGAL-WUXI
PREV

TITLE OUTLINE
254/256T ODP-ROLLED STEEL

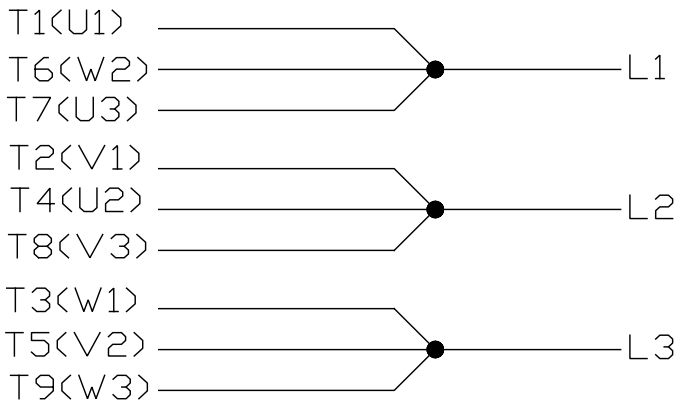
MAT'L.
FINISH
CAD FILE SS620685
RFP
DIST



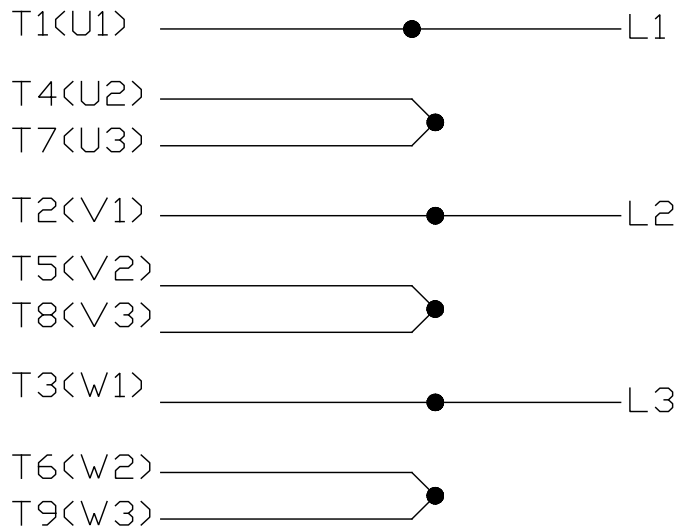
| SIZE | DRAWING NO. | REV. |
|---|---|---|
| B | SS620685 | 2 |

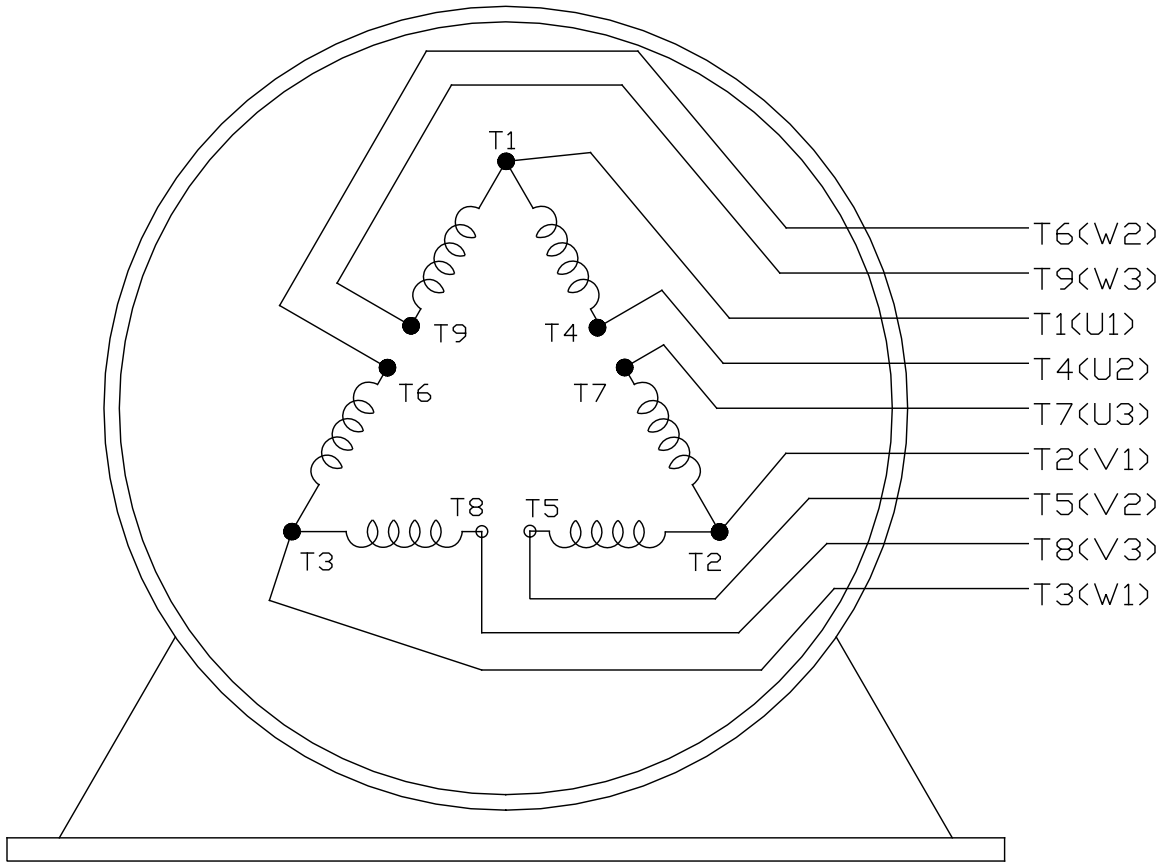
EE7308K

## 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

DRAWN PGK 06-04-1997
CHK ML 06-05-1997
APPD GK 06-15-1997

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

SCALE
REF
MAT'L.
FMF
FINISH
PREV
CAD FILE EE7308K
RFP
DIST

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

## CERTIFICATION DATA SHEET

| | | | |
|---|---|---|---|
| **Model#:** | 254TTDBD6026 AA | **WINDING#:** | HE31604017 NONE 2 |
| **CONN. DIAGRAM:** | A-EE7308K | **ASSEMBLY:** | F1/F2 CAPABLE |
| **OUTLINE:** | B-SS620685 | | |

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 15&10 | 11.2&7.5 | 1800 | 1774&1478 | 254T | DP | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 230/460#190/380 | 37.5/18.8&31.5/15.8 | LINE OR INVERTER | CONTINUOUS | F3 | 1.15/1.0 | 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: 81&78 | 3/4 LOAD PF: 75.5 | 1/2 LOAD PF: 64 | 92.4 | SQ CAGE INV RATED | 18 / 9 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 44.4 LB-FT | 230 / 115 | 91 LB-FT 205 | 119 LB-FT 268 | 40 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 74 dBA | 84 dBA | 2.3 LB-FT^2 | 90 LB-FT^2 | 20 SEC. | 2 | 300 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 6208 | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | ROLLED STEEL |

| 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: VARIABLE 10:1
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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*

DATE: 06/23/2017 02:03:28 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

# Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

254TTDBD6026

**Submittal**

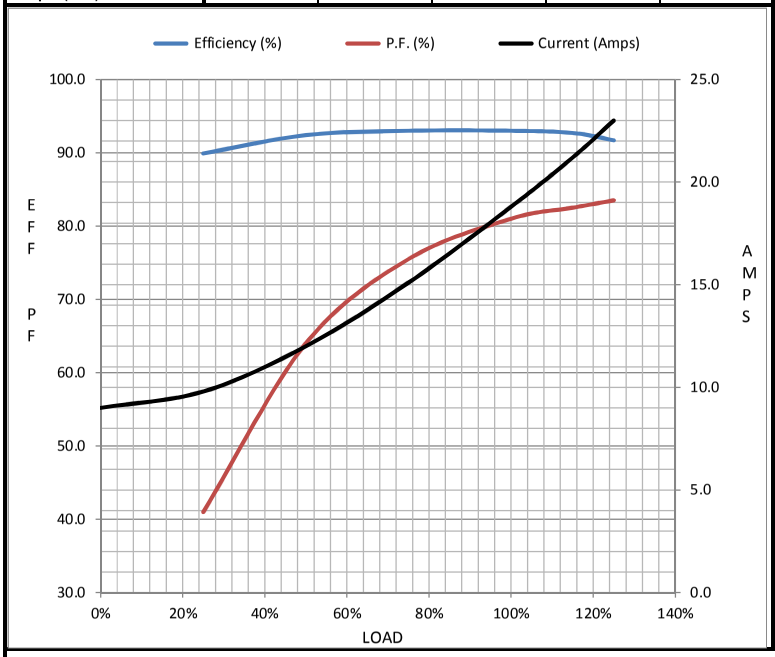
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 9.0 | 9.8 | 12.0 | 15.1 | 18.8 | 21.2 | 23.0 | 115 | |
| Torque (ft-lb) | 0.00 | 11.0 | 22.0 | 33.2 | 44.4 | 51.2 | 55.8 | 91.0 | |
| RPM | 1800 | 1792 | 1788 | 1780 | 1774 | 1,768 | 1765 | 0 | |
| Efficiency (%) | | 89.9 | 92.4 | 93.0 | 93.0 | 92.7 | 91.7 | | |
| P.F. (%) | 5.0 | 41.0 | 64.0 | 75.5 | 81.0 | 82.5 | 83.5 | 42.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 900 | 1628 | 1774 | 1800 |
| Current (Amps) | 115 | 105 | 73.5 | 18.8 | 9.0 |
| Torque (ft-lb) | 91.0 | 78.0 | 119 | 44.4 | 0.00 |




## Information Block

| | |
|---|---|
| HP | 15.0 |
| Sync. RPM | 1800 |
| Frame | 254 |
| Enclosure | DP |
| Construction | TDC |
| Voltage | 230/460#190/380 V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | G |
| Service Factor | 1.15 |
| Temp Rise @ FL | 40 ° C |
| Duty | CONT |
| Ambient | 40 ° C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk² | 2.30 Lb-Ft² |
| Ref Wdg | HE31604017 NONE |
| Sound Pressure @ 1M | 74 dBA |
| VFD Rating | VARIABLE 10:1 |
| Outline Dwg | B-SS620685 |
| Conn. Diag | A-EE7308K |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.4120 | 0.2340 | 1.3440 | 1.4530 | 30.4670 |

## Speed -Torque Curve