# PRODUCT INFORMATION PACKET

Model No: 256TTDBD6026
Catalog No: GT0062
General Purpose Motor, 20 HP, 3 Ph, 60 Hz, 208-230/460 V, 1800 RPM, 256T Frame, DP



RegalRexnord

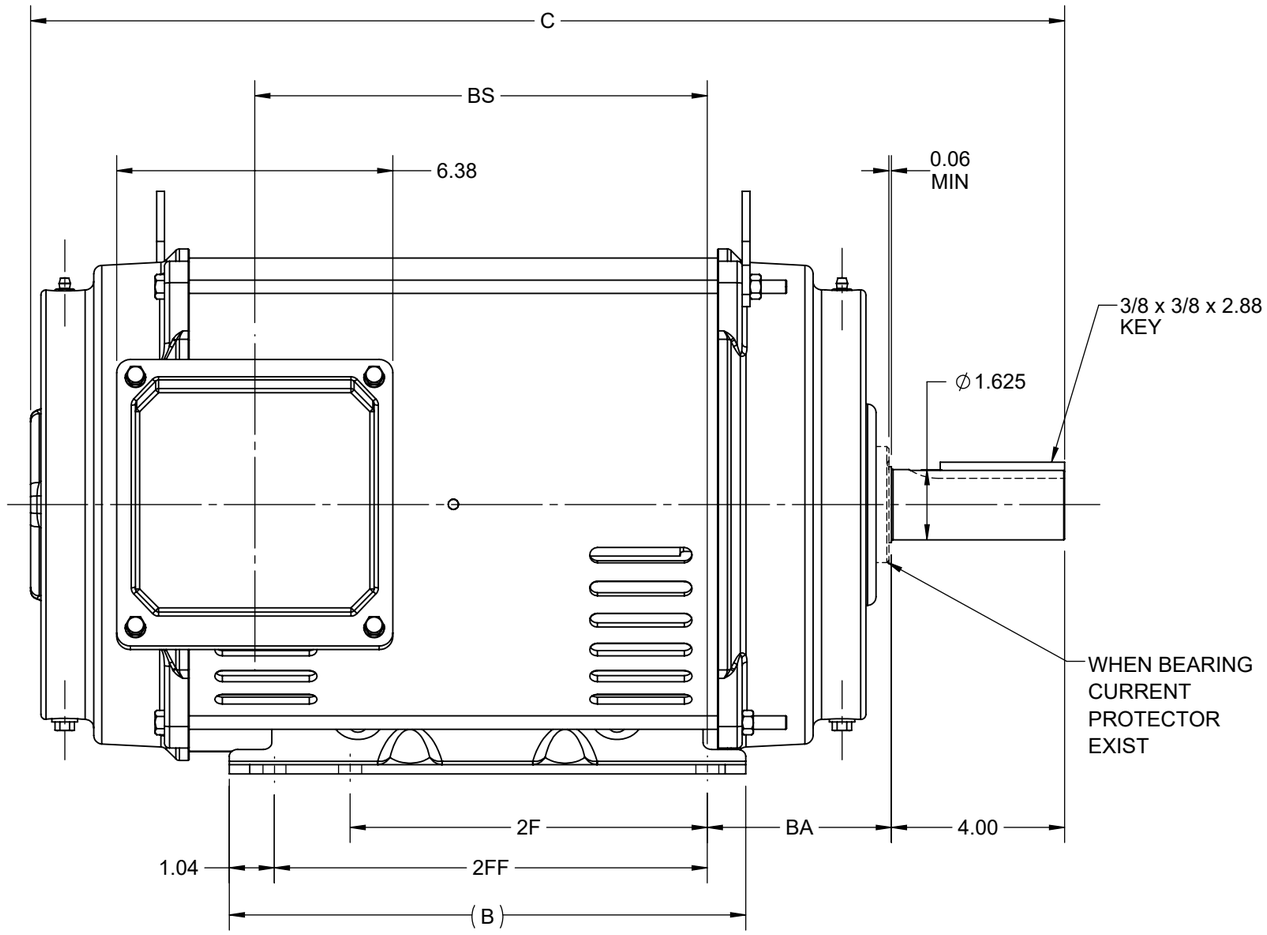
## Nameplate Specifications

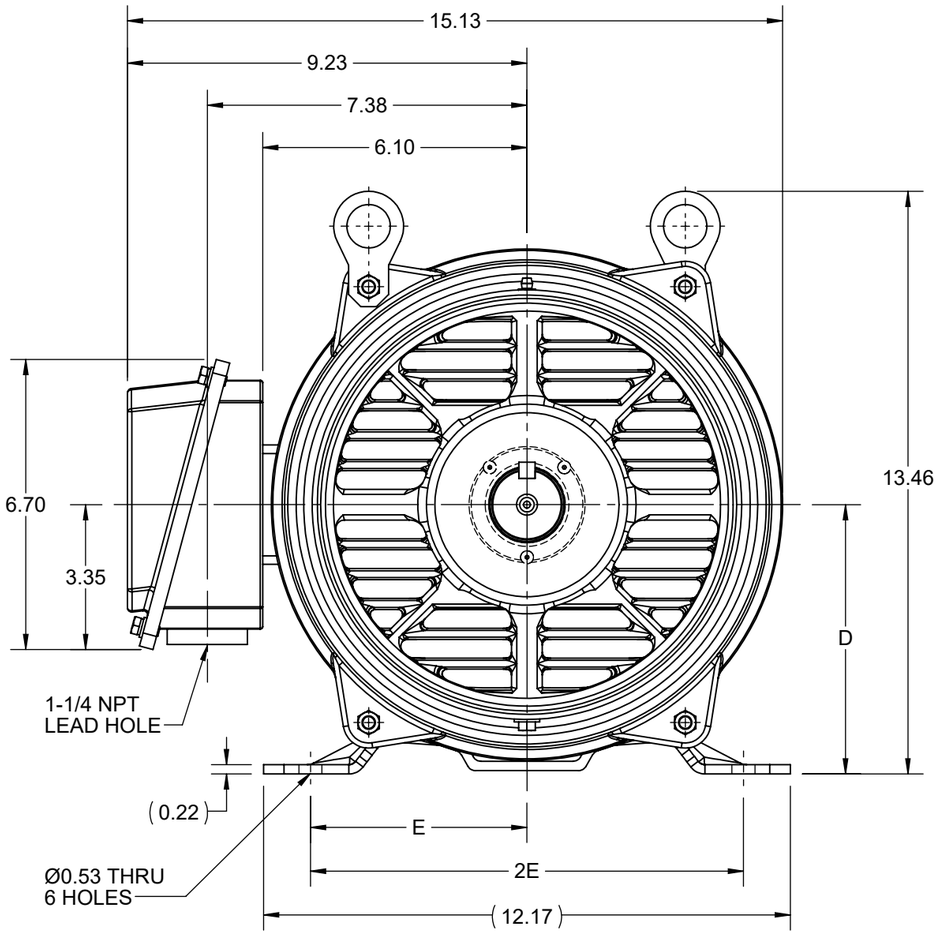
| | | | |
|---|---|---|---|
| Output HP | 20 Hp | Output KW | 14.9 kW |
| Frequency | 60 Hz | Voltage | 208-230/460 V |
| Current | 53.0-48.5/24.3 A | Speed | 1770 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 93 % | Power Factor | 83.5 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 256T | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6309 | Opp Drive End Bearing Size | 6208 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 22 |
| Number of Speeds | 1 | | |

## Technical Specifications

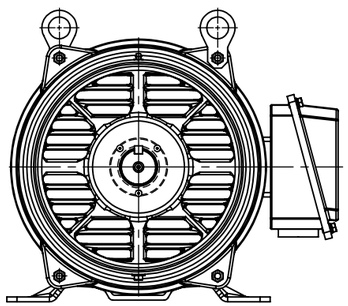
| | | | |
|---|---|---|---|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .51 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | T | Overall Length | 24.22 in |
| Shaft Diameter | 1.625 in | Shaft Extension | 4 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | Inverter Load | CONSTANT 2:1/VARIABLE 10:1 |
| Outline Drawing | SS620685-200 | Connection Drawing | EE7308K |

| DASH NO. | B | C | D | E | 2E | 2F | 2FF | BA | BS | MOUNTING | FRAME |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 11.93 | 22.31 | 6.25 | 5.00 | 10.00 | 8.25 | 10.00 | 4.25 | 8.82 | F1 OR F2 | 254T |
| 200 | | 23.88 | | | | | | | 10.45 | | 256T |




F2 VIEW



| | | |
|---|---|---|
| DRAWING REVISION: C | REVISION BY: GOPI J | REV DATE/© DATE: 08/02/2022 |
| REQUEST NUMBER: CR-0006810 | APPROVED BY: SBD | DATE: 08/02/2022 |
| REQUEST NUMBER DESCRIPTION: VIEWS UPDATED AS PER 3D | | |

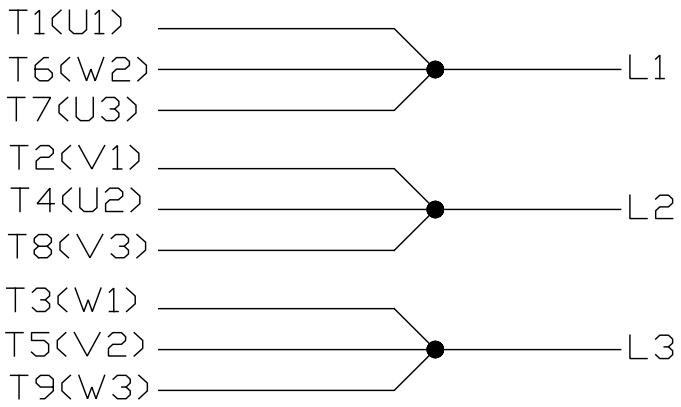


PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

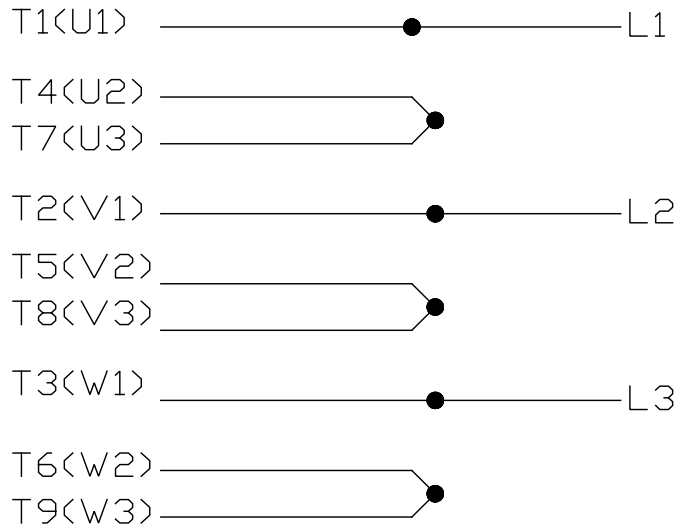
| | | |
|---|---|---|
| DRAWN BY: XZ | Regal Rexnord | Regal Beloit America, Inc. |
| DATE: 25/02/2016 | | |
| APPROVED BY | DESCRIPTION: OUTLINE 254/256T FR NEMA ODP RS | |
| DATE | | |
| REFERENCE | MATERIAL | PROCESS/FINISH |
| THIRD ANGLE PROJECTION | SIZE: B | DRAWING NUMBER: SS620685 |
| | | SHEET: 1 OF 1 |

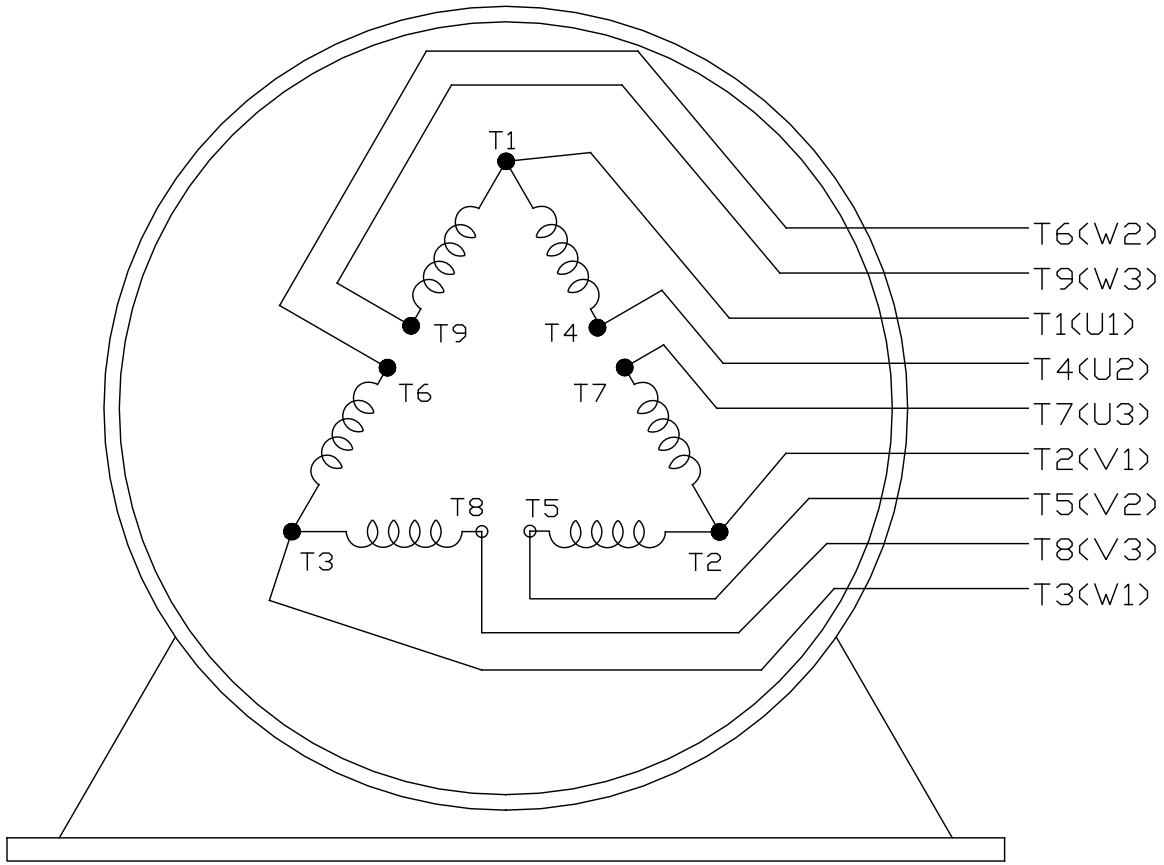
EE7308K

## 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 | DRAWING NO. | PAGE OF | REV. |
|---|---|---|---|
| A | EE7308K | | E |

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

## CERTIFICATION DATA SHEET

**CUSTOMER:**

**CUSTOMER PO#:**

**ORDER #:**

**MODEL #:** 256TTDBD6026 BB

**CONN. DIAGRAM:** A-EE7308K

**CUSTOMER PART #:**

**OUTLINE:** SS620685-256T

**MOUNTING:** F1/F2 CAPABLE

**WINDING #:** HE31604015 2

### TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 20&15 | 14.9&11.2 | 1800 | 1770&1474 | 256T | DP | G | B |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 230/460&190/380 | 48.5/24.3&45/22.4 | LINE OR INVERTER | CONTINUOUS | F7 | 1.15/1.0 | 40 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **FULL LOAD EFF:** | 93&92.4 | **3/4 LOAD EFF:** | 93 | **1/2 LOAD EFF:** | 92.4 | **GTD. EFF** | **ELEC. TYPE** |
| **FULL LOAD PF:** | 83.5&83 | **3/4 LOAD PF:** | 79.5 | **1/2 LOAD PF:** | 69.5 | 92.4 | SQ CAGE INV RATED |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 59.4 **LB-FT** | 288 / 144 | 118 **LB-FT** 199 % | 146 **LB-FT** 246 % | 45 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 74 **dBA** | 84 **dBA** | 2.8 **LB-FT^2** | 125 **LB-FT^2** | 20 **SEC.** | 2 | 314 **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 | ODE | | | | | | |
| BALL | BALL | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | ROLLED STEEL |
| 6309 | 6208 | | | | | | |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE HEATERS |
|---|---|---|---|---|---|---|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | NOT | NONE | NONE | NONE | FALSE | NONE **VOLTS** |

*****

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*****

**INVERTER**
**TORQUE:** CONSTANT 2:1/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

**PREPARED BY:** Anusha Muthyala
**DATE:** 09/24/2019 01:11:19 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

# Data Sheet

**Date:** 12/1/2021
**Customer:**
**Attention:**
**Submitted by:** CHANDANA DESU

marathon® Motors

256TTDBD6026

**Submittal**

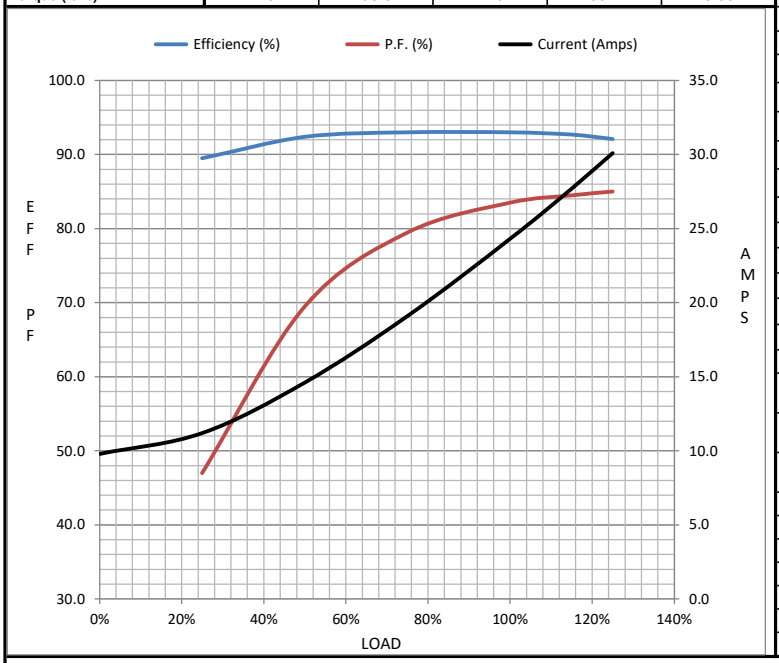
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 9.8 | 11.2 | 14.6 | 19.1 | 24.3 | 27.7 | 30.1 | 145 | |
| Torque (ft-lb) | 0.00 | 14.5 | 29.5 | 44.3 | 59.4 | 68.4 | 74.5 | 120 | |
| RPM | 1800 | 1793 | 1785 | 1778 | 1770 | 1,765 | 1762 | 0 | |
| Efficiency (%) | | 89.5 | 92.4 | 93.0 | 93.0 | 92.7 | 92.1 | | |
| P.F. (%) | 5.0 | 47.0 | 69.5 | 79.5 | 83.5 | 84.5 | 85.0 | 43.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 900 | 1628 | 1770 | 1800 |
| Current (Amps) | 145 | 129 | 82.0 | 24.3 | 9.8 |
| Torque (ft-lb) | 120 | 98.0 | 146 | 59.4 | 0.00 |

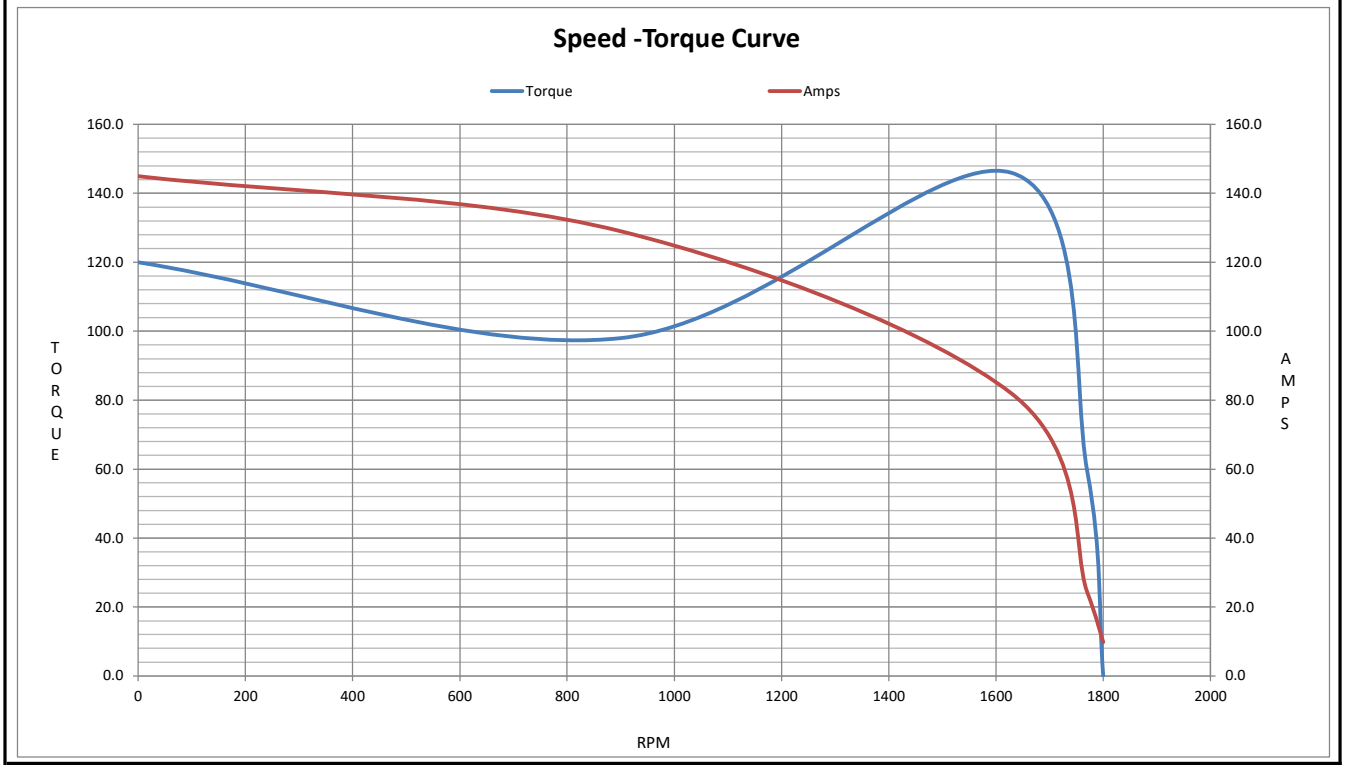



## Information Block

| | |
|---|---|
| HP | 20.0 |
| Sync. RPM | 1800 |
| Frame | 256 |
| Enclosure | DP |
| Construction | TDB |
| Voltage | 208-230/460#190/380 V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | G |
| Service Factor | 1.15 |
| Temp Rise @ FL | 45 ° C |
| Duty | CONT |
| Ambient | 40 ° C |
| Elevation | 3,300 feet |
| Rotor/Shaft wk² | 2.80 Lb-Ft² |
| Ref Wdg | HA31604020 NONE |
| Sound Pressure @ 1M | 74 dBA |
| VFD Rating | CONSTANT 2:1/VARIABLE 20:1 |
| Outline Dwg | SS620685-200 |
| Conn. Diag | EE7308K |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.3380 | 0.1920 | 1.0680 | 1.2350 | 27.3210 |



# EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 256TTDBD6026

(Model No. may contain prefix and/or suffix characters)

Catalog No : GT0062

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)
EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:

Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22