

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 143TTDBD6428

Catalog No: GT6004

Globetrotter® General Purpose Motor, 1 & 0.75 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,  
1800 & 1500 RPM, 143T Frame, DP



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**RegalRexnord**

### Nameplate Specifications

|                        |                     |                            |                         |
|------------------------|---------------------|----------------------------|-------------------------|
| Phase                  | 3                   | Output HP                  | 1 & 0.75 Hp             |
| Output KW              | 0.75 & 0.56 kW      | Voltage                    | 208-230/460 & 190/380 V |
| Speed                  | 1755 & 1445 rpm     | Service Factor             | 1.15 & 1.15             |
| Frame                  | 143T                | Enclosure                  | Drip Proof              |
| Thermal Protection     | Thermostat          | Efficiency                 | 85.5 & 82.5 %           |
| Ambient Temperature    | 40 °C               | Frequency                  | 60 & 50 Hz              |
| Current                | 3.2-3/1.5 & 3/1.5 A | Power Factor               | 73                      |
| Duty                   | Continuous          | Insulation Class           | F                       |
| Design Code            | B                   | KVA Code                   | N                       |
| Drive End Bearing Size | 6205                | Opp Drive End Bearing Size | 6205                    |
| 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       | 14.1 Ohms                    | Mounting           | Bolt-on Base               |
| Motor Orientation     | Horizontal                   | Drive End Bearing  | Ball                       |
| Opp Drive End Bearing | Ball                         | Frame Material     | Rolled Steel               |
| Shaft Type            | T                            | Shaft Diameter     | 0.875 in                   |
| Assembly/Box Mounting | F1/F2 CAPABLE                | Inverter Load      | CONSTANT 2:1/VARIABLE 10:1 |
| Outline Drawing       | SS621067-800                 | Connection Drawing | EE7308T                    |

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## 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<br>T | REVISION BY<br>ZR | DATE<br>01-14-2019 |
| ECO<br>ECO-0159915    | APPROVED BY<br>DR | DATE<br>01-15-2019 |

### ADDED TERMINAL CONNECTION DIAGRAM

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DRAWN BY  
SMC  
DATE  
05-13-1992  
APPROVED BY  
TB  
DATE  
05-13-1992  
REFERENCE  
EE7308/EE7300

THIRD ANGLE  
PROJECTION



Regal Beloit America, Inc.

### DESCRIPTION

**CONN DIAGRAM-INTERNAL**  
3 PHASE - DUAL VOLTAGE MOTOR

MATERIAL

PROCESS/FINISH

SIZE  
A

DRAWING NUMBER

EE7308T

SHEET  
1 OF 1



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

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

**CUSTOMER:****ORDER #:****CONN. DIAGRAM:****OUTLINE:****WINDING:****SPEED:**

EE7308T

A-SS621067-800

HAT4001

NONE

1

**CUSTOMER P.O. #:****REFERENCE MODEL #:** 143TTDBD6428**CAT #:** GT6004**CUSTOMER PART #:****MOUNTING:** F1 ONLY

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW   | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|----|------|----------|--------|-------|-----------|------|----------|--------|
| 1  | 0.75 | 1800     | 1755   | 143T  | DP        | TDR  | N        | B      |

| PH | HZ    | VOLTS               | AMPS            | START TYPE      | DUTY | INSL | S.F. | AMB | ELEV. |
|----|-------|---------------------|-----------------|-----------------|------|------|------|-----|-------|
| 3  | 60/50 | 208-230/460#190/380 | 3.2-3/1.5&3/1.5 | ACROSS THE LINE | CONT | F    | 1.15 | 40  | 3300  |

| F.L. EFF | 85.5 | 3/4 LD EFF | 84.0 | 1/2 LD EFF | 78.5 | GTD EFF | 81.5 | ELECT. TYPE | SQ CAGE IND RUN |
|----------|------|------------|------|------------|------|---------|------|-------------|-----------------|
| F.L. PF  | 73.0 | 3/4 LD PF  | 64.0 | 1/2 LD PF  | 51.0 |         |      |             |                 |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (° C) |
|-------------|-----------------|-------------|-------------|-----------------|
| 3.0 LB-FT   | 15.0            | 11.0 LB-FT  | 14.0 LB-FT  | 30              |

| SOUND PRESSURE @ 3 FT. | SOUND  | POWER | ROTOR WK <sup>2</sup>   | MAX. LOAD WK <sup>2</sup> | SAFE STALL TIME | STARTS/HOUR | APPROX. | MOTOR WGT |
|------------------------|--------|-------|-------------------------|---------------------------|-----------------|-------------|---------|-----------|
| 56 dBA                 | 65 dBA |       | 0.10 LB-FT <sup>2</sup> | 7 LB-FT <sup>2</sup>      | 15 SEC.         | 3           | 38      | LB.       |

### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

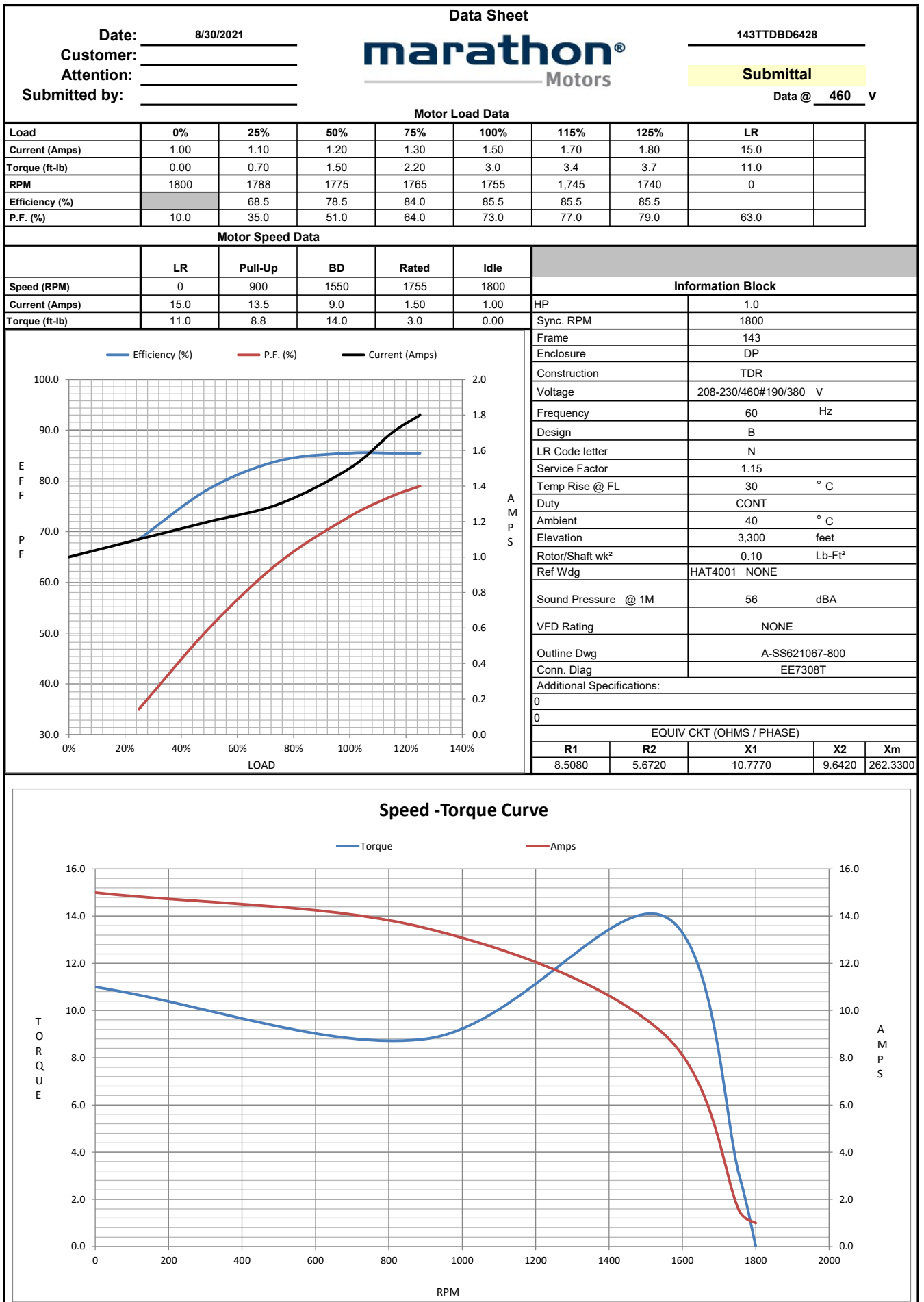
| DE BRACKET TYPE  | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT         |
|------------------|------------------|------------|-------------------|-------------|--------------------|------------|---------|---------------|
| STANDARD HUBLESS | STANDARD         | BOLT-ON    | HORIZONTAL        | NO          | NONE               | NO         | NONE    | BLUE (ENAMEL) |

| BEARINGS        | GREASE           | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT | MATERIAL                | FRAME MATERIAL |
|-----------------|------------------|------------|------------|-------------|-------|-------------------------|----------------|
| DE BALL<br>6205 | ODE BALL<br>6205 | POLYREX EM | T          | NONE        | NONE  | 1045 HOT ROLLED (C-204) | ROLLED STEEL   |

| THERMOSTATS  | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE | HEATERS |
|--------------|------------|-----------|-----------|-------------|---------|-------|---------|
| TSTATS (N/C) | NOT        | NONE      | NONE      | NONE        | FALSE   |       | NA      |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 8.508        | 5.672        | 10.777       | 9.642        | 262.33       | 0.150              | ODE   |

|                                 |  |  |  |   |                           |  |  |      |  |  |  |
|---------------------------------|--|--|--|---|---------------------------|--|--|------|--|--|--|
| *<br>N<br>O<br>T<br>E<br>S<br>* |  |  |  |   | INVERTER TORQUE: NONE     |  |  |      |  |  |  |
|                                 |  |  |  |   | INV. HP SPEED RANGE: NONE |  |  |      |  |  |  |
|                                 |  |  |  |   | ENCODER: NONE             |  |  |      |  |  |  |
|                                 |  |  |  |   | NONE                      |  |  |      |  |  |  |
|                                 |  |  |  |   | NONE PPR                  |  |  |      |  |  |  |
| PREPARED BY: _____              |  |  |  | BRAKE: NONE   |                           |  |  |      |  |  |  |
| DATE: 8/30/2021                 |  |  |  | NONE  |                           |  |  | NONE |  |  |  |
|                                 |  |  |  | FT-LB: NA   |                           |  |  |      |  |  |  |
|                                 |  |  |  | VOLTAGE: NONE                                       |                           |  |  | HZ:  |  |  |  |
| FORM: 3531 REV_4 2/27/06        |  |  |  | UL: V - LIME-INS.CONST UL REC.W/OVERHEAT PRT DEVICE |                           |  |  |      |  |  |  |



## 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 : 143TTDBD6428

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

Catalog No : GT6004

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**