

PRODUCT INFORMATION PACKET

Model No: 254TTDBD6030

Catalog No: GT0159

Globetrotter® General Purpose Motor, 15 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 254T Frame, DP



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Nameplate Specifications

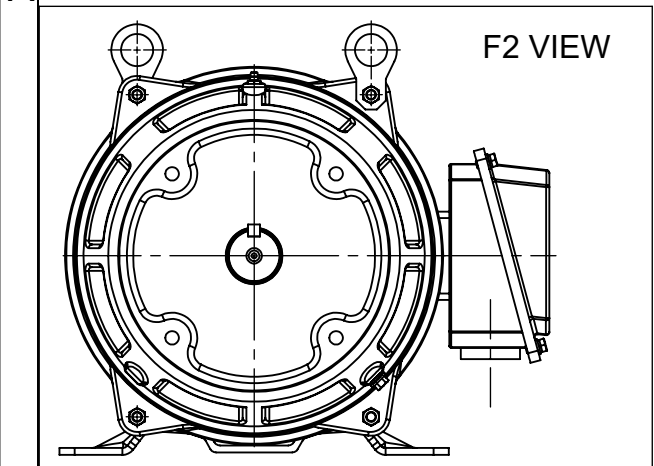
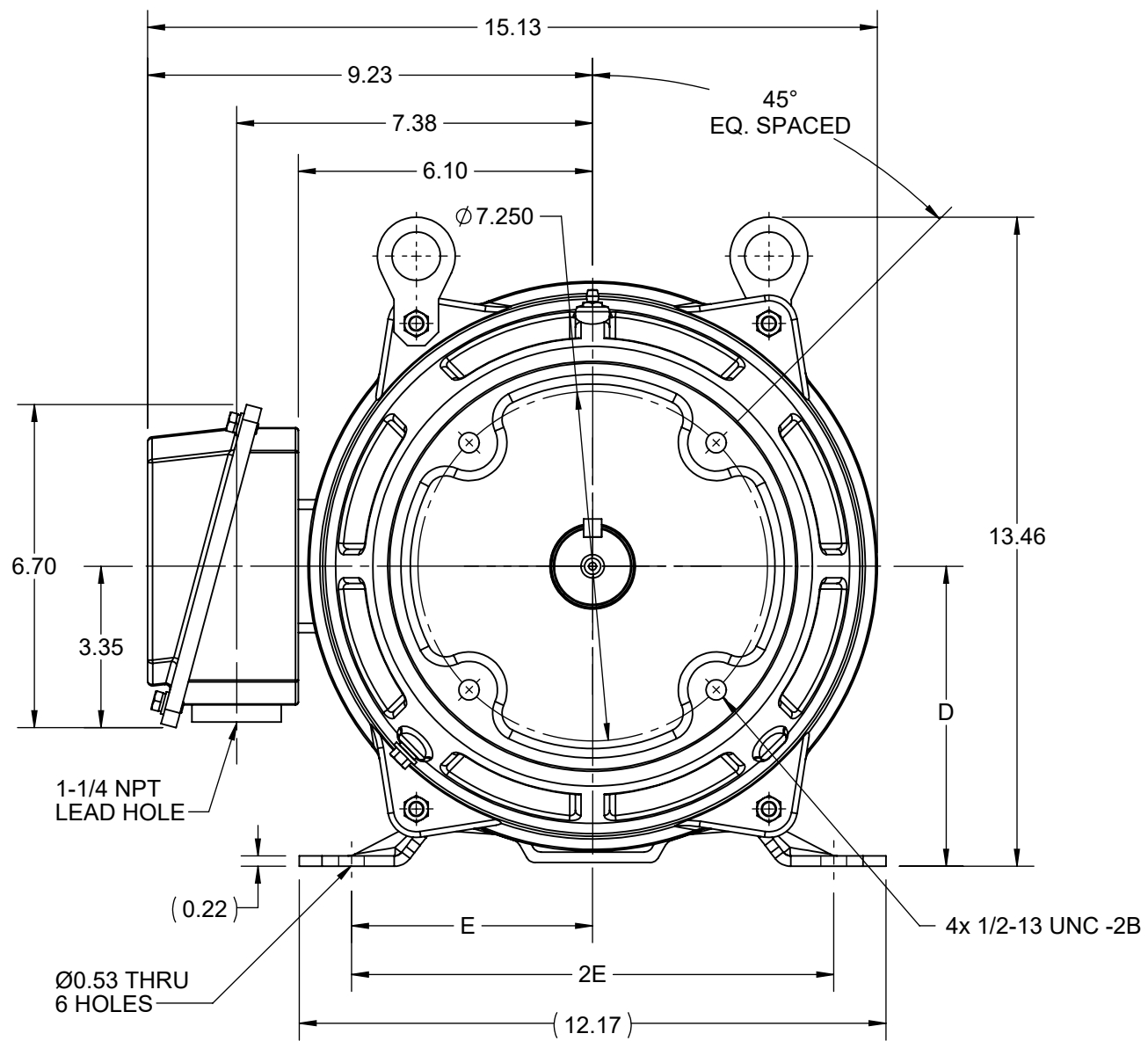
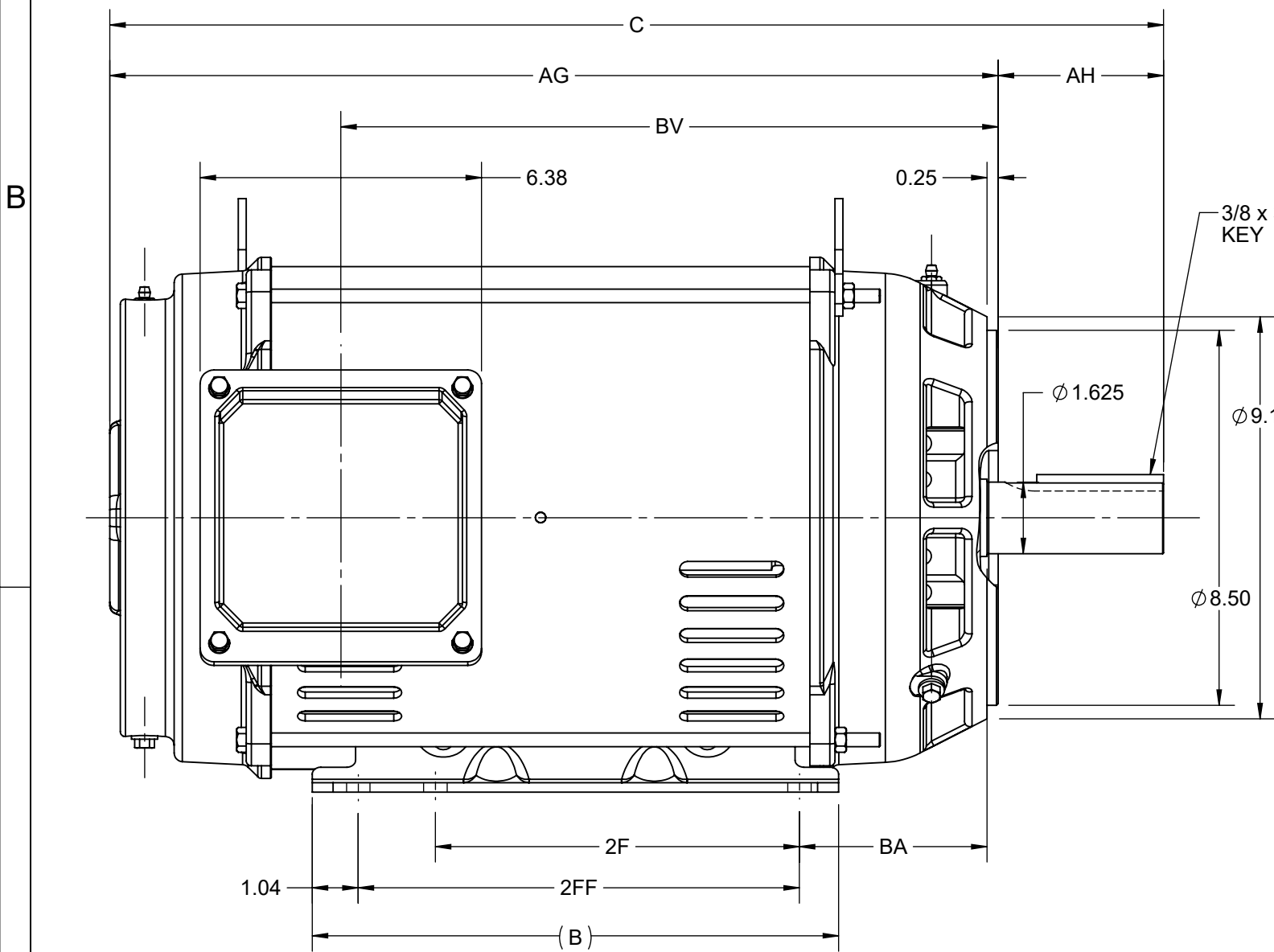
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|------------------------|----------------------|----------------------------|-------------------|
| Phase | 3 | Output HP | 15 Hp |
| Output KW | 11.2 kW | Voltage | 575 V |
| Speed | 1774 rpm | Service Factor | 1.15 |
| Frame | 254T | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Efficiency | 93 % |
| Ambient Temperature | 40 °C | Frequency | 60 Hz |
| Current | 15.1 A | Power Factor | 81 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| 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 | .6729 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 | 22.64 in |
| Frame Length | 270.00 in | Shaft Diameter | 1.625 in |
| Shaft Extension | 4.00 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Inverter Load | CONSTANT 2:1/VARIABLE 10:1 | | |
| Connection Drawing | EE7300 | Outline Drawing | SS620685-100 |

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| DASH NO. | B | C | D | E | 2E | 2F | 2FF | AG | AH | BA | BV | MOUNTING | FRAME |
|----------|-------|-------|------|------|-------|------|-------|-------|------|------|-------|----------|-------|
| 100 | 11.93 | 22.31 | 6.25 | 5.00 | 10.00 | 8.25 | 10.00 | 18.56 | 3.75 | 3.50 | 13.32 | F1 OR F2 | 254TC |
| 200 | | 23.88 | | | | | | 20.13 | | | 14.90 | | 256TC |



| | | |
|---|--------------------|-------------------------------|
| DRAWING REVISION A | REVISION BY RAM | REV DATE/© DATE 22/08/2022 |
| REQUEST NUMBER CR-0010970 | APPROVED BY SBD | DATE 22/08/2022 |
| REQUEST NUMBER DESCRIPTION NEW DRAWING RELEASE | | |
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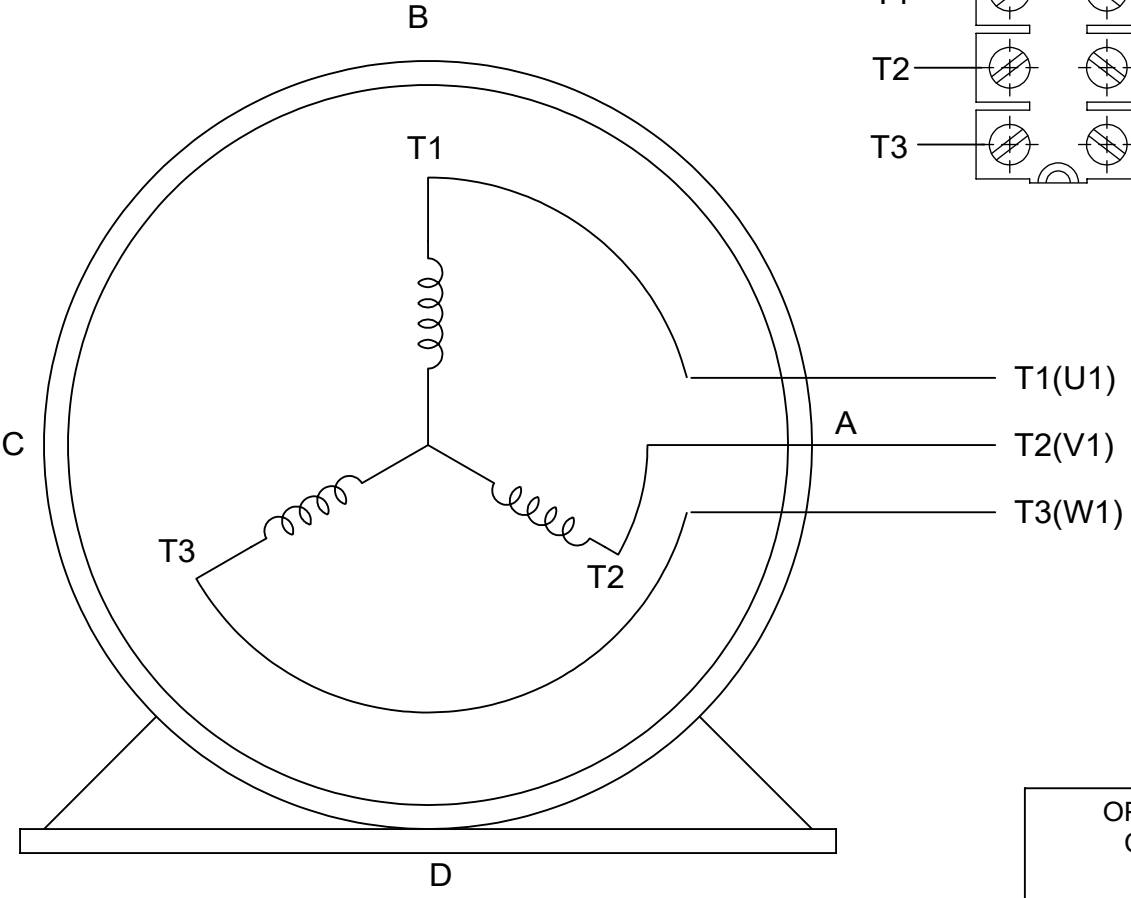
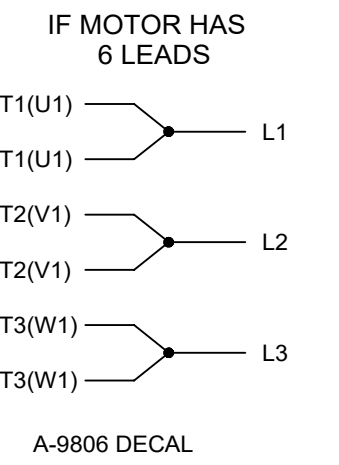
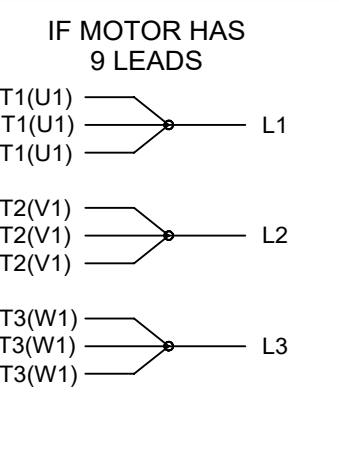
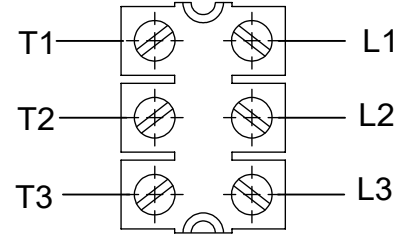
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ARE FOR REFERENCE ONLY

| | |
|------------------------|--|
| DRAWN BY RAM | Regal Beloit America, Inc. |
| DATE 22/08/2022 | |
| APPROVED BY SBD | DESCRIPTION OUTLINE 254/256TC FR NEMA ODP RS C-FACE KIT |
| DATE 22/08/2022 | MATERIAL PROCESS/FINISH |
| REFERENCE SS620685 | SIZE B |
| THIRD ANGLE PROJECTION | DRAWING NUMBER SS620685A |
| | SHEET 1 OF 1 |

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TERMINAL BLOCK WHEN SPECIFIED

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

OPTIONAL CORD CONNECTION

| | |
|----|-------|
| L1 | WHITE |
| L2 | RED |
| L3 | BLACK |

| | | |
|---|-------------------|-------------------------------|
| DRAWING REVISION AC | REVISION BY BS | REV DATE/© DATE 26/07/2022 |
| REQUEST NUMBER CR-0010402 | APPROVED BY SN | DATE 26/07/2022 |
| REQUEST NUMBER DESCRIPTION DRAWING UPDATED | | |
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ARE FOR REFERENCE ONLY

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|------------------------|
| DRAWN BY DA |
| DATE 03-26-1993 |
| APPROVED BY TB |
| DATE 03-26-1993 |
| REFERENCE |
| THIRD ANGLE PROJECTION |

| | | | |
|--|---------------------------------|----------------------------|-----------------|
| | | Regal Beloit America, Inc. | |
| DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR | | | |
| MATERIAL | | PROCESS/FINISH | |
| SIZE A | DRAWING NUMBER EE7300 | | SHEET 1 OF 1 |

Data Sheet

Date: 9/20/2023
 Customer: _____
 Attention: _____
 Submitted by: RAMYA



254TTDBD6030

Submittal

Data @ 575 V

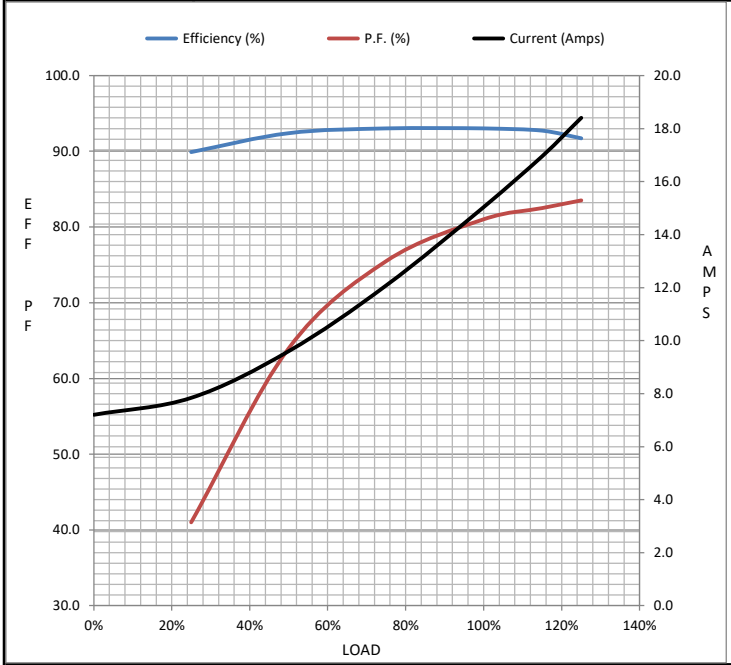
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 7.2 | 7.8 | 9.6 | 12.1 | 15.0 | 17.0 | 18.4 | 92.0 |
| 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 |

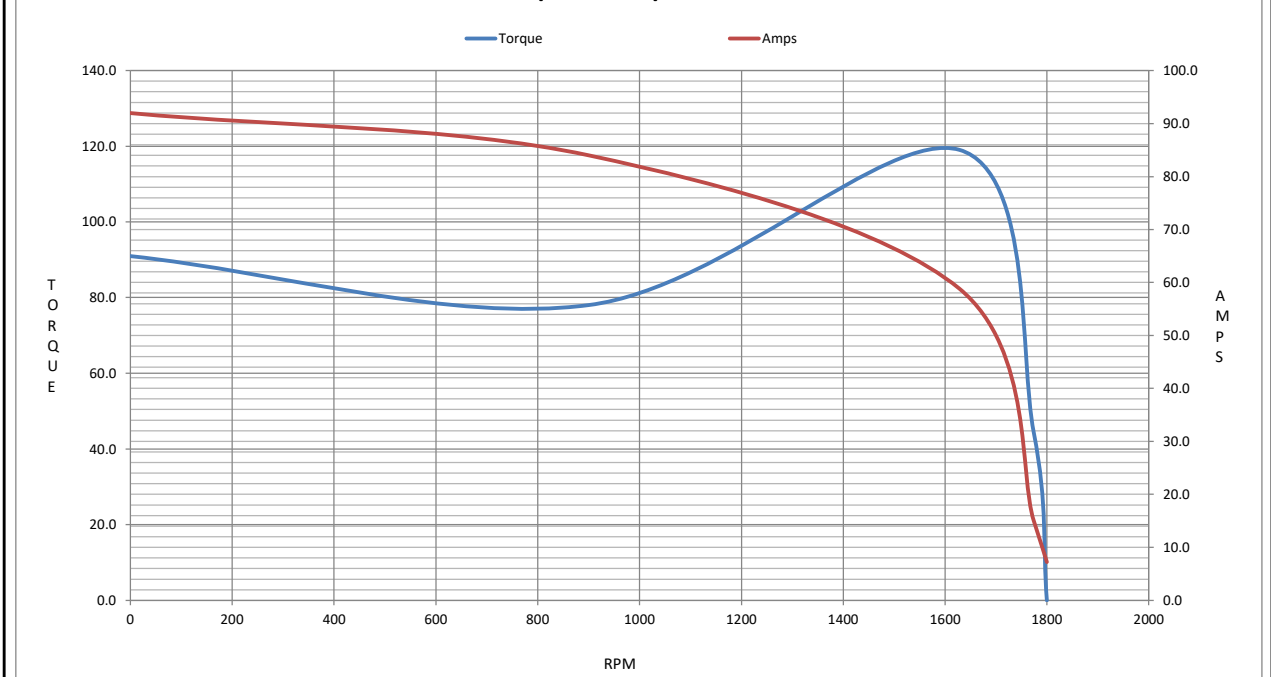
Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM) | 0 | 900 | 1628 | 1774 | 1800 |
| Current (Amps) | 92.0 | 84.0 | 58.8 | 15.0 | 7.2 |
| 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 | TDB | | | |
| Voltage | 575 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 | 3,300 feet | | | |
| Rotor/Shaft wk ² | 2.30 Lb-Ft ² | | | |
| Ref Wdg | HA31604021 NONE | | | |
| Sound Pressure @ 1M | 74 dBA | | | |
| VFD Rating | CONSTANT 2:1/VARIABLE 10:1 | | | |
| Outline Dwg | | | | |
| Conn. Diag | EE7300 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.6440 | 0.3660 | 2.1000 | 2.2710 | 47.6040 |



Speed-Torque Curve



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 : 254TTDBD6030

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

Catalog No : GT0159

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