

PRODUCT INFORMATION PACKET



Model No: E102695.00

Catalog No: E102695.00

ecoSaver™ General Purpose Motor, 0.33 & 0.33 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, S56C Frame, DP



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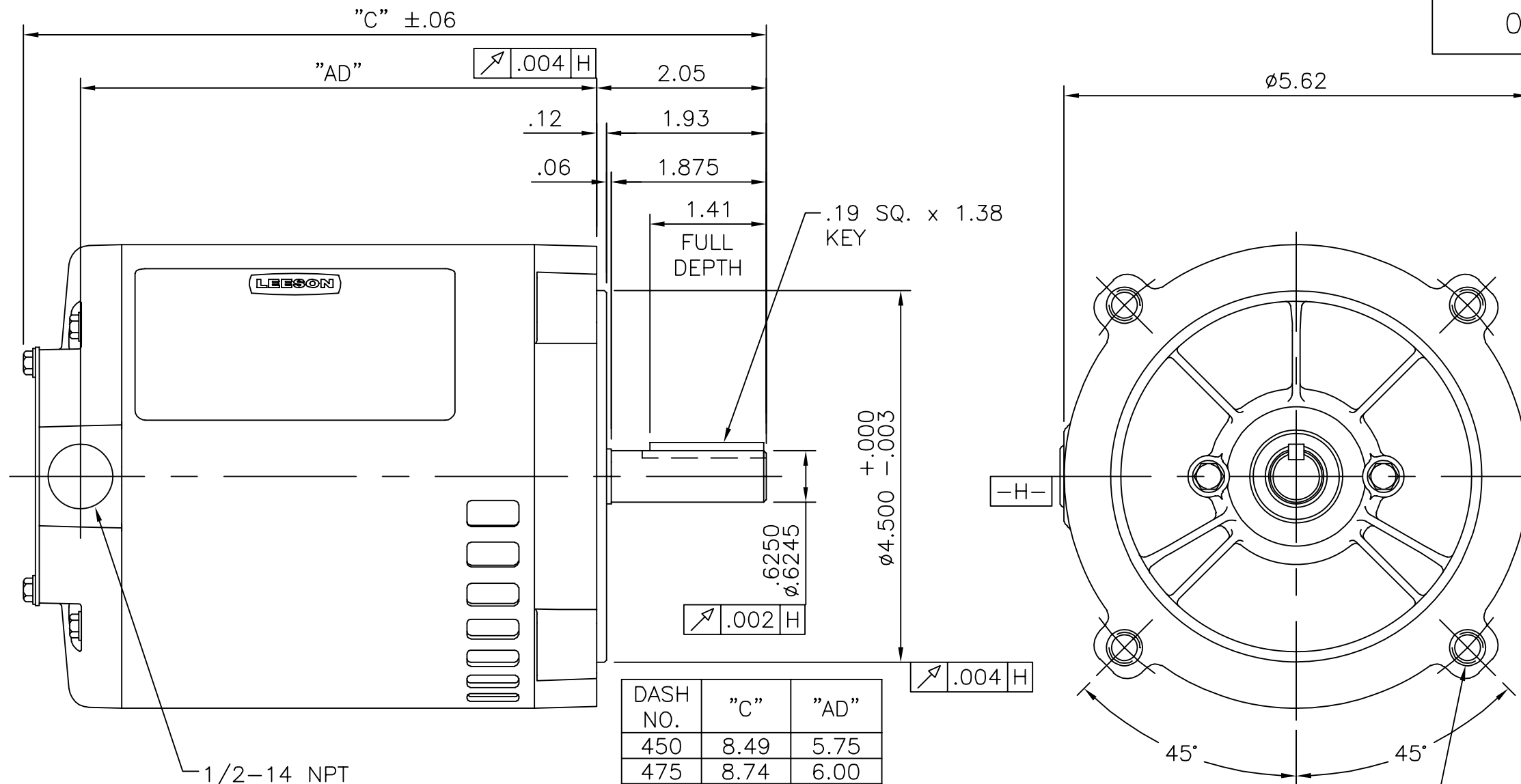
Nameplate Specifications

| | | | |
|------------------------|------------------------------|----------------------------|--------------------------------|
| Phase | 3 | Output HP | 0.33 & 0.33 Hp |
| Output KW | 0.25 & 0.25 kW | Voltage | 230/460 & 190/380 V |
| Speed | 1725 & 1425 rpm | Service Factor | 1.25 & 1.25 |
| Frame | S56C | Enclosure | Drip Proof |
| Thermal Protection | Thermostat | Efficiency | 73.4 & 70 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 1.2/.6 & 1.4/.7 A | Power Factor | 70.6 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | M |
| Drive End Bearing Size | 6203 | Opp Drive End Bearing Size | 6203 |
| 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 | 20.8 Ohms | Mounting | Round |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | NEMA 56 | Overall Length | 11.49 in |
| Frame Length | 7.50 in | Shaft Diameter | 0.625 in |
| Shaft Extension | 1.87 in | Assembly/Box Mounting | F1 ONLY |
| Inverter Load | CONSTANT 2:1 | | |
| Outline Drawing | 031630-750 | Connection Drawing | EE7308T |

031630



1/2-14 NPT
CONDUIT HOLE
(PLUGGED)

| DASH NO. | "C" | "AD" |
|----------|-------|------|
| 450 | 8.49 | 5.75 |
| 475 | 8.74 | 6.00 |
| 500 | 8.99 | 6.25 |
| 525 | 9.24 | 6.50 |
| 550 | 9.49 | 6.75 |
| 575 | 9.74 | 7.00 |
| 600 | 9.99 | 7.25 |
| 625 | 10.24 | 7.50 |
| 650 | 10.49 | 7.75 |
| 675 | 10.74 | 8.00 |
| 700 | 10.99 | 8.25 |
| 750 | 11.49 | 8.75 |

3/8-16 UNC 2B TAP x .56 DEEP
(4) REQ'D. ON A 5.875 B.C.

TOLERANCES
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.03

.XXX ±.005

.XXXX ±.0005

ANG ±1/2'



Regal Beloit America, Inc.

DRAWN PG 5/24/01

CHK

APPD

SCALE 1=2

REF 031070

FMF 100048

PREV

03 ADDED DASH # 750

PVR 01/14/15 SM

02 ADDED DASH NO. 700

KMM 4/19/05 PG

01 UPDATED CALLOUT OF GD&T

KMM 6/5/02 PG

NO. REVISION

BY & DATE

CHK

ANG ±1/2'

TITLE
OUTLINE - S56C FRAME
"C" FACE MOUNT - DRIP PROOF

MAT'L. 3 PHASE

FINISH

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RFP

CAD FILE 031630

SIZE

DRAWING NO.

REV.

DIST

A

031630

03

HIGH VOLTAGE



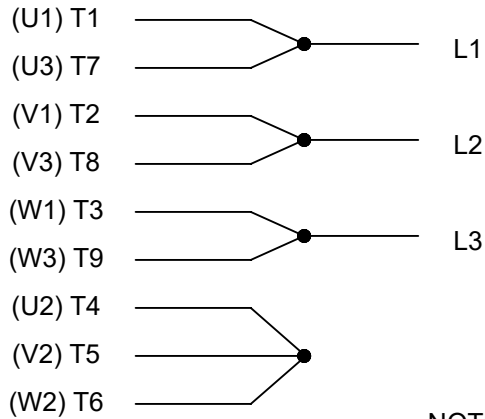
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



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



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

| | | | | | | |
|---|-------------------|--------------------|----------------------------|--------------------|----------------------------|---|
| DRAWING REVISION T | REVISION BY ZR | DATE 01-14-2019 | | DRAWN BY SMC | Regal Beloit America, Inc. | |
| ECO ECO-0159915 | APPROVED BY DR | DATE 01-15-2019 | | DATE 05-13-1992 | | |
| ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM | | | | APPROVED BY TB | | DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR |
| <small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small> | | | | DATE 05-13-1992 | | MATERIAL |
| | | | REFERENCE EE7308/EE7300 | SIZE A | DRAWING NUMBER EE7308T | SHEET 1 OF 1 |
| | | | THIRD ANGLE PROJECTION | | | |



**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T

CATALOG #: E102695.00

OUTLINE: A-031630-750

MOUNTING: F1 ONLY

WINDING #: TE484125 3

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---------|-----------|-----------|-----------|-------|-----------|----------|--------|
| 1/3&1/3 | 0.25&0.25 | 1800 | 1725&1425 | S56C | DP | M | B |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|----|-------|-----------------|---------------|------------------|------------|------|-----------|-------|
| 3 | 60/50 | 230/460&190/380 | 1.2/.6&1.4/.7 | LINE OR INVERTER | CONTINUOUS | F3 | 1.25/1.25 | 40 |

| FULL LOAD EFF: | 73.4 | 3/4 LOAD EFF: | 69.4 | 1/2 LOAD EFF: | 62.4 | GTD. EFF | | ELEC. TYPE | |
|----------------|------|---------------|------|---------------|------|----------|--|-------------------|--|
| FULL LOAD PF: | 70.6 | 3/4 LOAD PF: | 62.5 | 1/2 LOAD PF: | 52.3 | - | | SQ CAGE INV RATED | |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|------------------|------------------|-------------|
| 16.1 OZ-FT | 8.9 / 4.5 | 70.7 OZ-FT 439 % | 77.6 OZ-FT 482 % | 25 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|-----------|-----------------|---------------|-------------------|
| - dBA | - dBA | - LB-FT^2 | - LB-FT^2 | - SEC. | - | - LBS. |

***** SUPPLEMENTAL INFORMATION *****

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|----------------|
| C-FACE | STANDARD | ROUND | HORIZONTAL | FALSE | NONE | FALSE | NONE | GREEN (POWDER) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|-------------|-------------|------------|-------------|--------------------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | MULTEMP SRL | STANDARD 56 | NONE | NONE | 1144 STRESSPROOF (C-223) | ROLLED STEEL |
| 6203 | 6203 | | | | | | |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------------|------------|----------|----------|-------------|---------|---------------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| TSTATS (N/C) | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

*
N
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T
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S

| |
|--------------------------------------|
| INVERTER TORQUE: CONSTANT 2:1 |
| 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 |

Data Sheet

Date: 1/24/2018

E102695.00



Data @ 460 V

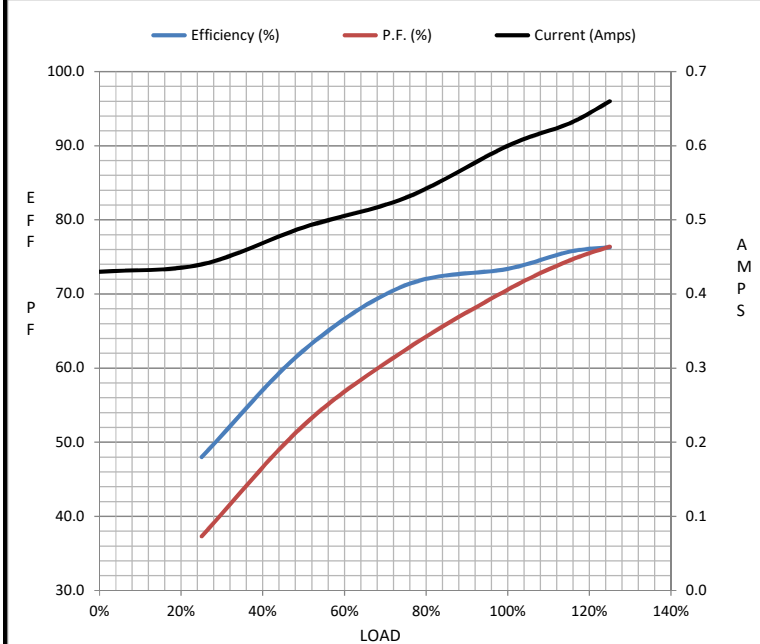
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|-------|
| Current (Amps) | 0.43 | 0.44 | 0.49 | 0.53 | 0.60 | 0.63 | 0.66 | 4.5 |
| Torque (ft-lb) | 0.00 | 64.8 | 130 | 196 | 261 | 300 | 326 | 1,146 |
| RPM | 1800 | 1780 | 1770 | 1760 | 1745 | 1,735 | 1730 | 0 |
| Efficiency (%) | | 48.0 | 62.4 | 71.2 | 73.4 | 75.7 | 76.3 | |
| P.F. (%) | 20.4 | 37.3 | 52.3 | 62.5 | 70.6 | 74.5 | 76.4 | 0.0 |

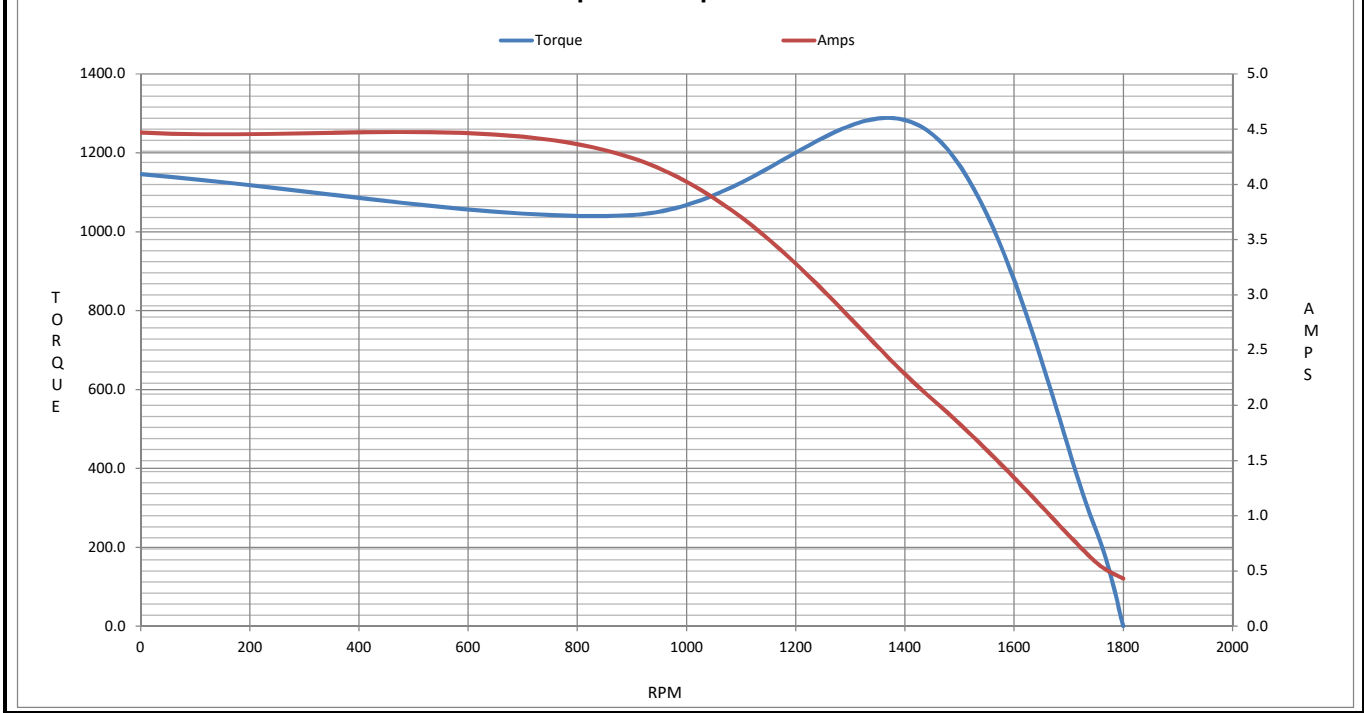
Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-------|---------|-------|-------|------|
| Speed (RPM) | 0 | 900 | 1440 | 1745 | 1800 |
| Current (Amps) | 4.5 | 4.2 | 2.10 | 0.60 | 0.43 |
| Torque (ft-lb) | 1,146 | 1,042 | 1,258 | 261 | 0.00 |

| Information Block | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 0.3 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 48 | | | |
| Enclosure | DP | | | |
| Construction | TDR | | | |
| Voltage | 230/460#190/380 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | M | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 25 °C | | | |
| Duty | CONT | | | |
| Ambient | 40 °C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 0.00 Lb-Ft ² | | | |
| Ref Wdg | TE484125 NONE | | | |
| Sound Pressure @ 1M | 999 dBA | | | |
| VFD Rating | CONSTANT 2:1 | | | |
| Outline Dwg | A-031630-750 | | | |
| Conn. Diag | A-EE7308T | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |



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 : E102695.00

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

Catalog No : E102695.00

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

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