

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTGCD6505

Catalog No: C377

Hazardous Duty® Explosion Proof Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 215TC Frame, EPFC



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RegalRexnord

Nameplate Specifications

| | | | |
|------------------------|-----------------------------|----------------------------|--|
| Phase | 3 | Output HP | 10 & 7.50 Hp |
| Output KW | 7.5 & 5.6 kW | Voltage | 230/460 & 190/380 V |
| Speed | 3518 & 2925 rpm | Service Factor | 1.0 & 1.0 |
| Frame | 215TC | Enclosure | Explosion Proof Fan cooled |
| Thermal Protection | Thermostat | Efficiency | 90.2 & 89.5 % |
| Ambient Temperature | 50 °C | Frequency | 60 & 50 Hz |
| Current | 23.6/11.8 & 21.6/10.8 A | Power Factor | 88 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Drive End Bearing Size | 6309 | Opp Drive End Bearing Size | 6208 |
| UL | UL Listed And CSA Certified | CSA | Y |
| CE | N | IP Code | 54 |
| Number of Speeds | 1 | Hazardous Location | DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C |

Technical Specifications

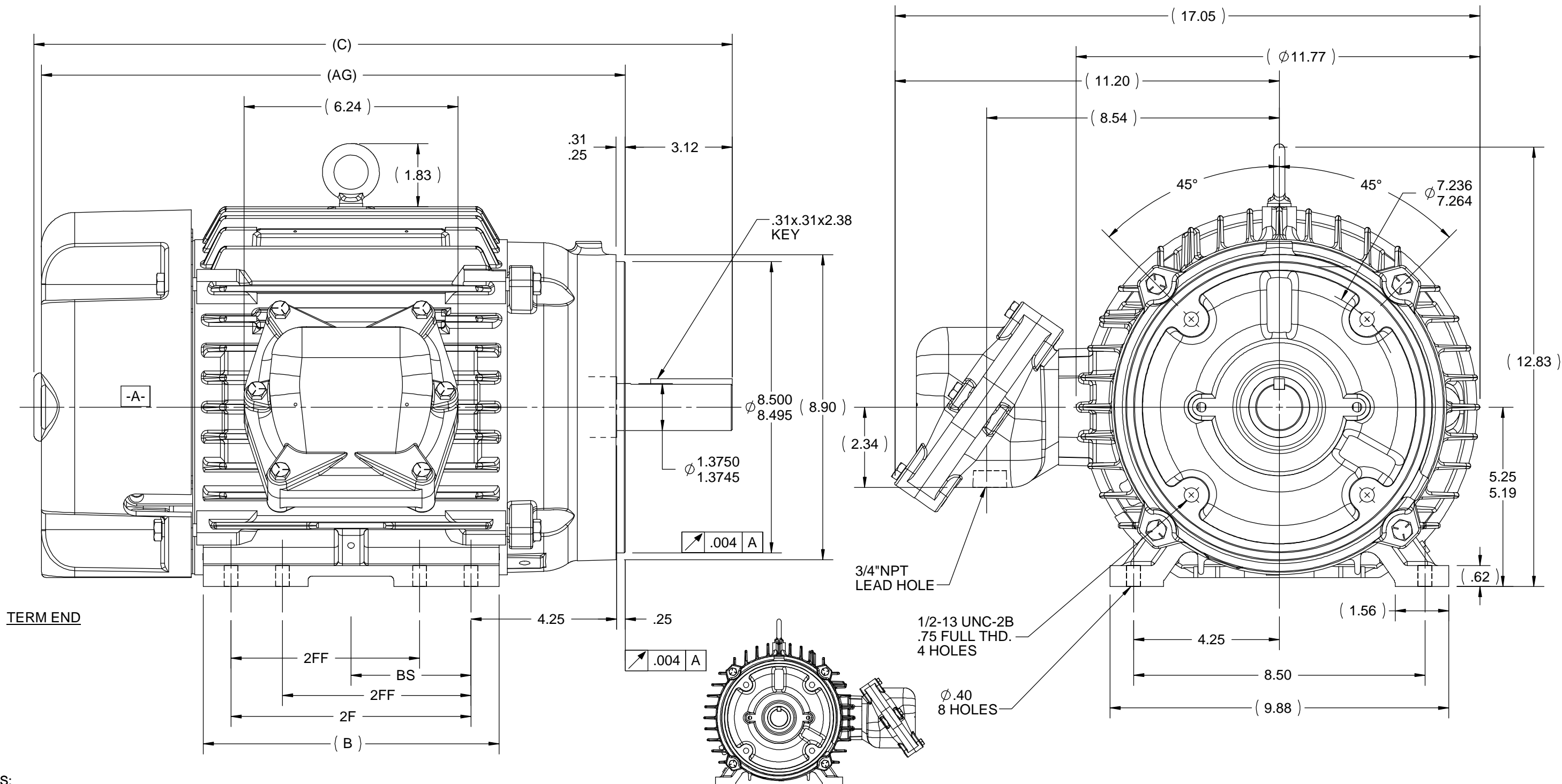
| | | | |
|-----------------------|-----------------------------|-------------------|-----------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
| Poles | 2 | Rotation | Reversible |
| Resistance Main | 1.218 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | T | Shaft Diameter | 1.375 in |
| Assembly/Box Mounting | F1 ONLY | | |
| Connection Drawing | EE7308T | Outline Drawing | 037702-912 |

B

B

A

A





NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90 ° STEPS.
2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 °. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ, TITLED "MOTOR AND GENERATORS,. REBUILT FOR USE IN HAZARDOUS LOCATION".
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

| | | | | | | | |
|------|---------|-------|-------|----|-----|-----|-------|
| 1212 | 215 | 23.45 | 11.76 | 10 | 7 | 5 | 20.11 |
| 912 | 213/215 | 20.45 | 8.63 | 7 | 5.5 | 3.5 | 17.11 |
| DASH | FRAME | C | B | 2F | 2FF | BS | AG |

| | | |
|---|--------------------|--------------------|
| DRAWING REVISION F | REVISION BY MVG | DATE 02/14/2018 |
| ECO ECO-0139688 | APPROVED BY ST | DATE 02/14/2018 |
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| | | | |
|---|---------|-----------|---------|
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | | |
| DEC. | INCH | mm | ANGLE |
| .X | ±0.1 | [±2.5] | ±7° 30" |
| .XX | ±0.03 | [±0.76] | |
| .XXX | ±0.005 | [±0.127] | |
| .XXXX | ±0.0005 | [±0.0127] | |
| REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45 ° CORNER FILLETS: R.02 [.51] | | | |
| MACHINED SURFACES: 200 INCH/mm 5.1 | | | |
| mm SHOWN IN [BRACKETS] | | | |

| | | | |
|--|--|---------------------------------|-----------------|
| DRAWN BY PN 9/2/2010 |  Regal Beloit America, Inc. | | |
| DATE | | | |
| APPROVED BY | DESCRIPTION OUTLINE 210 FR. - EPFC | | |
| DATE | | | |
| REFERENCE 037660 | MATERIAL | PROCESS/FINISH | |
| THIRD ANGLE PROJECTION  | SIZE B | DRAWING NUMBER 037702 | SHEET 1 OF 1 |

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 T | REVISION BY ZR | DATE 01-14-2019 |
| ECO ECO-0159915 | APPROVED BY DR | DATE 01-15-2019 |

ECO DESCRIPTION
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

037702-1212

HA31322010

R1

2

CUSTOMER P.O. #:**REFERENCE MODEL #:**

215TTGCD6505

CAT #:

C377

CUSTOMER PART #:**MOUNTING:**

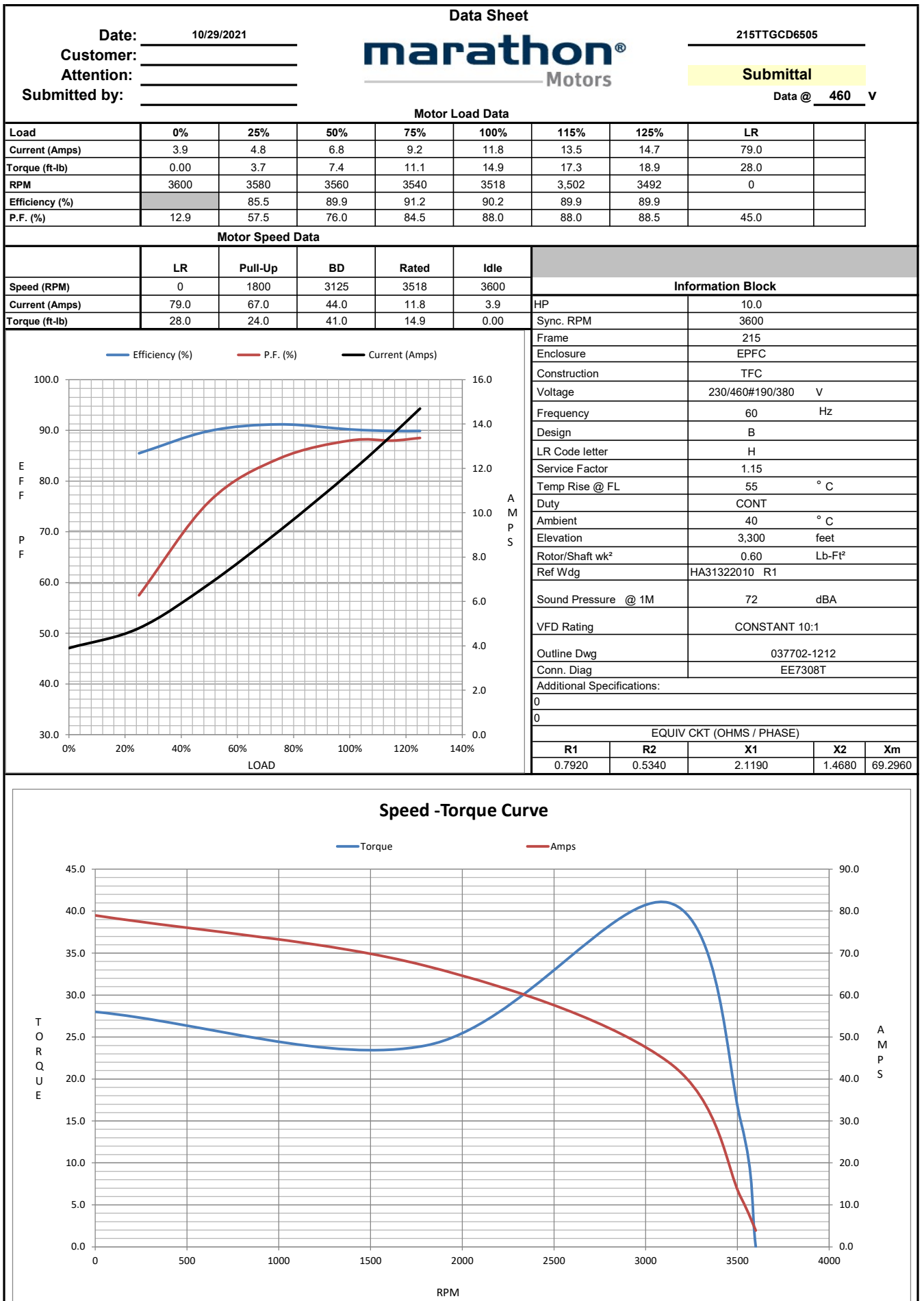
F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN | |
|--|-------|------------------|---------------------|------------------|-------------------|---------------------|------------------------|-------------------------|-----------|
| 10 | 7.5 | 3600 | 3518 | 215TC | EPFC | TFC | H | B | |
| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
| 3 | 60/50 | 230/460#190/380 | 23.6/11.8&21.6/10.8 | LINE OR INVERTER | CONT | F | 1.15 | 40 | 3300 |
| F.L. EFF | | 90.2 | 3/4 LD EFF | 91.2 | 1/2 LD EFF | 89.9 | GTD EFF | ELECT. TYPE | |
| F.L. PF | | 88.0 | 3/4 LD PF | 84.5 | 1/2 LD PF | 76.0 | 89.5 | SQ CAGE INV RATED | |
| F.L. TORQUE | | LR AMPS @ 460 V | | L.R. TORQUE | | B.D. TORQUE | | F.L. RISE (°C) | |
| 14.9 | LB-FT | 79.0 | | 28.0 | LB-FT | 188% | 41.0 | LB-FT | 275% |
| SOUND PRESSURE @ 3 FT. | | SOUND | POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | APPROX. | MOTOR WGT |
| 72 | dBA | 81 | dBA | 0.60 | LB-FT² | 18 | LB-FT² | 15 | SEC. |
| *** SUPPLEMENTAL INFORMATION *** | | | | | | | | | |
| DE BRACKET TYPE | | ODE BRACKET TYPE | | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIIP COVER | SCREENS |
| C-FACE | | STANDARD | | RIGID | HORIZONTAL | PREMIUM SEVERE DUTY | PROOF CL I GR CD CL II | NO | NONE |
| BEARINGS | | GREASE | | SHAFT TYPE | | SPECIAL DE | | SPECIAL ODE | |
| DE | | ODE | | POLYREX EM | | T | | NONE | |
| BALL | | BALL | | NONE | | NONE | | 1045 HOT ROLLED (C-204) | |
| 6309 | | 6208 | | CAST IRON | | | | | |
| THERMOSTATS | | PROTECTORS | | WDG RTD's | | BRG RTD's | | THERMISTORS | |
| TSTATS (N/C) | | NOT | | NONE | | NONE | | NONE | |
| R1 (ohms/ph) | | R2 (ohms/ph) | | X1 (ohms/ph) | | X2 (ohms/ph) | | Xm (ohms/ph) | |
| 0.792 | | 0.534 | | 2.119 | | 1.468 | | 69.296 | |
| VIBRATION (in/sec) | | FLOAT | | | | | | | |
| 0.080 | | ODE | | | | | | | |
| INVERTER TORQUE: CONSTANT 10:1 | | | | | | | | | |
| INV. HP SPEED RANGE: NONE | | | | | | | | | |
| ENCODER: NONE | | | | | | | | | |
| NONE | | | | | | | | | |
| NONE | | | | | | | | NONE PPR | |
| BRAKE: NONE | | | | | | | | | |
| NONE | | | | | | | | | |
| FT-LB: NA | | | | | | | | | |
| VOLTAGE: NONE | | | | | | | | | |
| H2: | | | | | | | | | |
| UL: NO LETTER - ALL BRANDS-UL LISTED AND UL CERTIFIED FOR CANADA DIV. 1 XP | | | | | | | | | |

FORM: 3531 REV. 4

2/27/06



CERTIFICATE OF COMPLIANCE

Certificate Number 20220225- E12044
Report Reference E12044-20090313
Issue Date 2022-FEBRUARY-25

Issued to: REGAL BELOIT AMERICA INC
1946 W COOK RD
FORT WAYNE IN 46818

Tradename: Marathon

**This certificate confirms that
representative samples of**

MOTORS FOR USE IN HAZARDOUS LOCATIONS

Electric motors for use in hazardous locations; Class I, Groups C and D; Class II, Groups F and G; Inclusive of Model Number 215TTGCD6505 (may have prefix and/or suffix characters).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 674 - Electric Motors and Generators for Use in Division 1 Hazardous (Classified) Locations,
CSA C22.2 No. 145, Electric Motors and Generators for Use in Hazardous (Classified) Locations

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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