# PRODUCT INFORMATION PACKET



Model No: TCA0552AE211GAA009

Catalog No: R504A

Cast Iron Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM, 250M Frame,

TEFC





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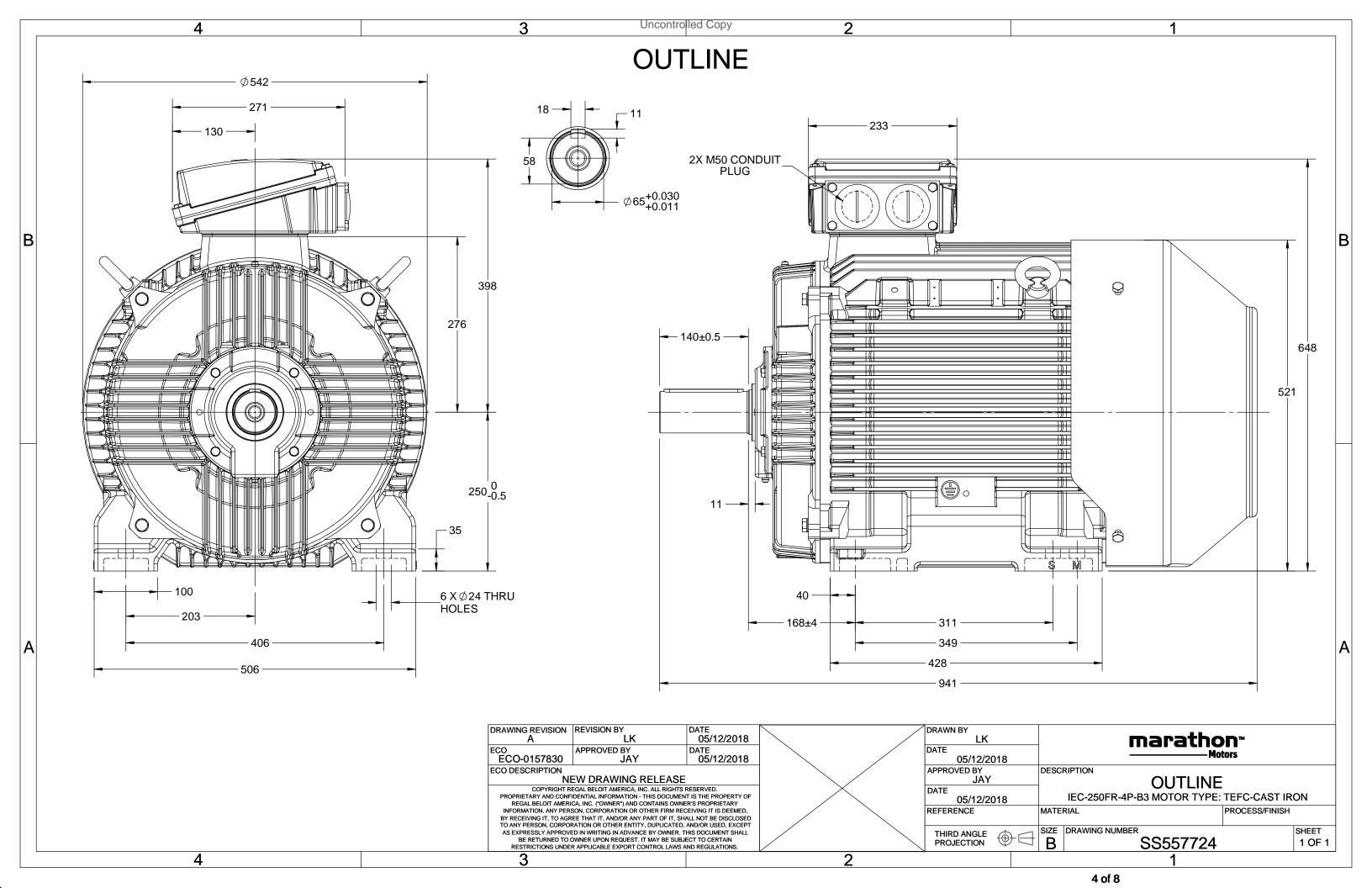
## Nameplate Specifications

| Phase                  | 3                 | Output HP                  | 75 & 60 Hp                  |
|------------------------|-------------------|----------------------------|-----------------------------|
| Output KW              | 55.0 & 45.0 kW    | Voltage                    | 230/460 & 200/400 V         |
| Speed                  | 1790 & 1490 rpm   | Service Factor             | 1.15 & 1.15                 |
| Frame                  | 250M              | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection     | Efficiency                 | 95.4 & 94.2 %               |
| Ambient Temperature    | 40 °C             | Frequency                  | 60 & 50 Hz                  |
| Current                | 174/87 & 168/84 A | Power Factor               | 84                          |
| Duty                   | Continuous        | Insulation Class           | F                           |
| Design Code            | N (IEC)           | KVA Code                   | J                           |
| Drive End Bearing Size | 6314              | Opp Drive End Bearing Size | 6314                        |
| UL                     | Recognized        | CSA                        | N                           |
| CE                     | Υ                 | IP Code                    | 55                          |
| Number of Speeds       | 1                 | Efficiency Class           | IE3                         |
|                        |                   |                            |                             |

## **Technical Specifications**

| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method       | Line Or Inverter |
|-----------------------|------------------------------|-----------------------|------------------|
| Poles                 | 4                            | Rotation              | Reversible       |
| Resistance Main       | .0687 Ohms                   | Mounting              | В3               |
| Motor Orientation     | Horizontal                   | Drive End Bearing     | Ball             |
| Opp Drive End Bearing | Ball                         | Frame Material        | Cast Iron        |
| Shaft Type            | IEC                          | Overall Length        | 37.05 in         |
| Frame Length          | 18.11 in                     | Shaft Diameter        | 2.559 in         |
| Shaft Extension       | 5.51 in                      | Assembly/Box Mounting | F3               |
| Inverter Load         | CONSTANT 2:1/VARIABLE 10:1   |                       |                  |
| Connection Drawing    | 8442000715                   | Outline Drawing       | SS557724         |

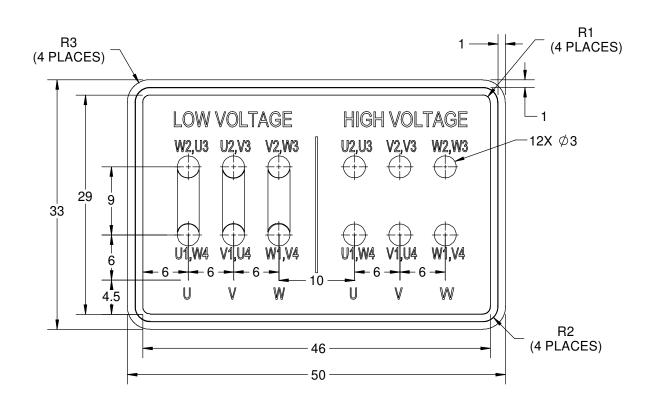
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| DRAWING REVISION | REVISION BY | DATE       |
|------------------|-------------|------------|
| Α                | S.MUDDA     | 16/11/2020 |
| ECO              | APPROVED BY | DATE       |
| ECO-0194685      | SUMANTA     | 16/11/2020 |
| ECO DESCRIPTION  |             |            |
|                  | NEW DRAWING |            |

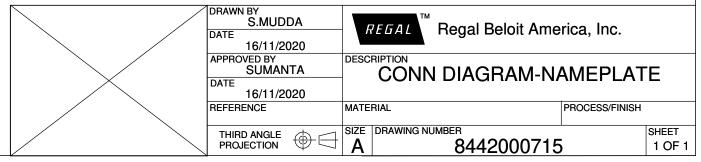
| GEOMENTRIC TOLERANCE |         |      |  |  |  |
|----------------------|---------|------|--|--|--|
| LINEAR DIM           | >0~6    | ±0.1 |  |  |  |
|                      | >6~30   | ±0.2 |  |  |  |
|                      | >30~120 | ±0.3 |  |  |  |



### NOTES:

- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. 1.
- 2.
- THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.
- LEAD TERMINAL MARKINGS FONT SIZE: T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 4. 3mm SIZE
- OTHER LETTER FONT SIZE SHOULD BE 3.5mm. 5.

8WD.442.2017





FORM: 3531 REV\_4 2/27/06
\*\* Subject to change without notice.

DATA VOLTS: 460

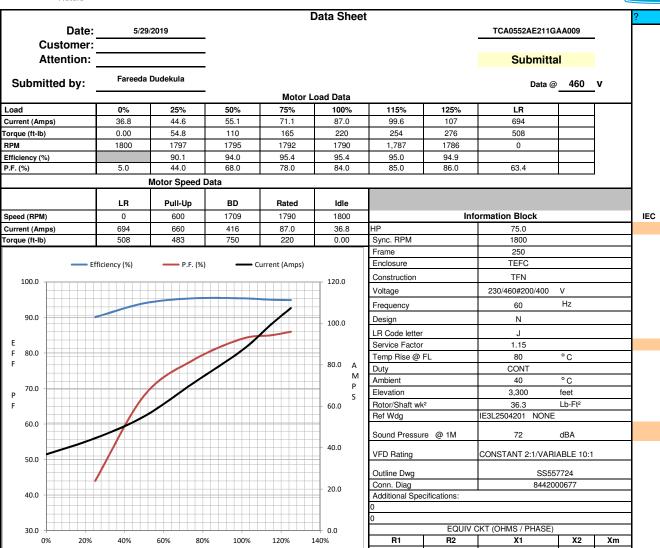
#### **CERTIFICATION DATA SHEET**

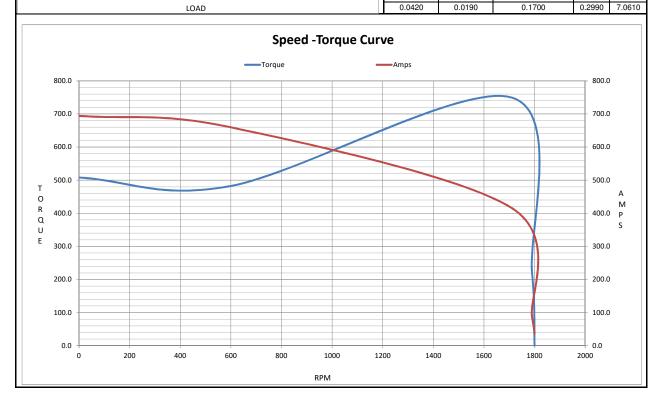
| CONN. DIA<br>OUTLINE:<br>WINDING: |   | 8442000677<br>SS557724<br>IE3L25042 | 01 NONE       | 1                  |                    | F                         |                     | E MODEL #:<br>CAT #:<br>MOUNTING: |                         | 1GAA009<br>04B                              |                        |         |  |
|-----------------------------------|---|-------------------------------------|---------------|--------------------|--------------------|---------------------------|---------------------|-----------------------------------|-------------------------|---|------------------------|---------|--|
|                                   |   |                                     |               |                    | TYPIC              | AL MOTOR PERFORM          | ANCE D              | ATA                               |                         |   |                        | Г       |  |
| HP                                | ĸw  | SYNC RPM                            | FLR           | FL RPM FRAME       |                    |                           | ENCLOSURE           |                                   | TYPE                    | KVA CODE                                    |                        | DESIGN  |  |
| 75                                | 55.00   | 1800                                | 179           | 1790               |                    | 250M                      | TEFC                |                                   | TFN                     | J   |                        | N       |  |
|                                   |   |                                     |               |                    |                    |                           |                     |                                   |                         |   |                        |         |  |
| PH                                | HZ  | VOLTS                               | AMI           |                    |                    | START TYPE                | DUTY                |                                   | INSL                    | S.F.  | AMB (° C)              |         |  |
| 3                                 | 60/50   | 230/460#200/400                     | 174/878       | 168/84             |                    | LINE OR INVERTER          | CONT                |                                   | F                       | 1.15/1.15                                   | 40 3300                |         |  |
|                                   | F.L. EFF  | 95.4                                | 3/4 LD EFF    | 95.4               | 1/2 LD EFF         |                           | 94.0 <b>GTD EFF</b> |                                   | ELECT. TYPE             |   |                        |         |  |
|                                   | F.L. PF   | 84.0                                | 3/4 LD PF     | 78.0               |                    | 1/2 LD PF                 | 68.0                | 94.7                              |                         | SQ CAGE                                     | INV RATED              |         |  |
| F.L. TO                           | ORQUE   | LR AMF                              | PS            |                    | L                  | .R. TORQUE                |                     | B.D. TORQ                         | UE                      | F.L. RIS                                    | E (° C)                |         |  |
|                                   | LB-FT   | 694                                 |               | 508                | LB-FT              | 231%                      | 750                 | LB-FT                             | 341%                    | 80  |                        |         |  |
| SOLIND P                          | RESSURE   | SOUND                               | ROTOR         | 2 WK <sup>2</sup>  | 1                  | MAX. LOAD WK <sup>2</sup> | SAFE S              | TALL TIME                         | START                   | S/HOUR                                      | APROX.                 | MOTOR   |  |
|                                   | dBA   | 81 <b>dBA</b>                       |               | LB-FT <sup>2</sup> | 36.3               | LB-FT <sup>2</sup>        | 15                  | SEC.                              | +                       | 2   |                        | KG.     |  |
|                                   |   |                                     | ``            |                    | ***                | SUPPLEMENTAL INFORM       | ATION ***           |                                   |                         |   |                        |         |  |
| DE DD40                           | KET TYPE  | ODE BRACKET                         | MOUNT<br>TYPE |                    | TOR                | SEVERE DUTY               |                     | RDOUS                             | DRIP COVER              | SCREENS                                     | _                      | A 13.1T |  |
|                                   | IDARD   | STANDARD                            | B3            |                    | TATION<br>ZONTAL   | NO NO                     |                     | ONE                               | NO NO                   | NONE  | PAINT<br>BLUE (ENAMEL) |         |  |
|                                   |   |                                     |               |                    |                    |                           |                     |                                   |                         |   |                        | (=      |  |
| BEAF<br>DE                        | RINGS<br>ODE                                      | GREASE                              | SHAFT         | TYPE               |                    | SPECIAL DE                | SPECIAL ODE SHAFT M |                                   | MATERIAL                | FRAME MATERIAL                              |                        |         |  |
| BALL<br>6314                      | BALL<br>6314                                      | SG S5-V100                          | STANDA        | RD IEC             |                    | NONE                      | N                   | ONE                               | 1045 HOT ROLLED (C-204) |   | CAST IRON              |         |  |
|                                   | OSTATS  | PROTECTORS                          | WDG F         |                    |                    | BRG RTD's                 |                     | MISTORS                           |                         | TROL  | SPACE                  | HEATERS |  |
| NC                                | NE  | NOT                                 | NOI           | NE                 |                    | NONE                      | N                   | ONE                               | FALSE NA                |   | NA                     |         |  |
| R1 (oh                            | ohms/ph) R2 (ohms/ph) X1 (ohms/ph) X2 (ohms/ph) X |                                     | Xm (c         | hms/ph)            | VIBRATION (in/sec) |                           |                     |                                   |                         |   |                        |         |  |
| 0.0                               | 042   | 0.019                               | 0.1           | 7                  |                    | 0.299                     | 7                   | .061                              | 0.                      | 150   |                        |         |  |
| *<br>N<br>O<br>T                  |   |                                     |               |                    |                    |                           | If Inverter         | INVERT                            |                         | for further inform<br>CONSTANT 2:1,<br>NONE |                        | 1       |  |
| E<br>S<br>*                       |   |                                     |               |                    |                    |                           |                     | ENCODER:<br>NONE<br>NONE          | NONE                    |   | NONE                   | PPR     |  |
|                                   | ARED BY:<br>DATE:                                 | 9/22/2021                           |               |                    |                    |                           |                     | BRAKE:<br>N<br>FT-LB:<br>VOLTAGE: | ONE<br>N                | NON<br>AN<br>DNE                            | NE                     | HZ:     |  |













# **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: TCA0552AE211GAA009

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

Catalog No: R504A

Rework No: N/A

#### Directives:

Low Voltage Directive 2014/35/EU

### Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

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

**Authorized Representative:** 

<u>Authorized Representative in the Community:</u>

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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