### **PRODUCT INFORMATION PACKET**

Model No: TCA0112AE271GAA009 Catalog No: R634 Cast Iron Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM, 160M Frame, TEFC



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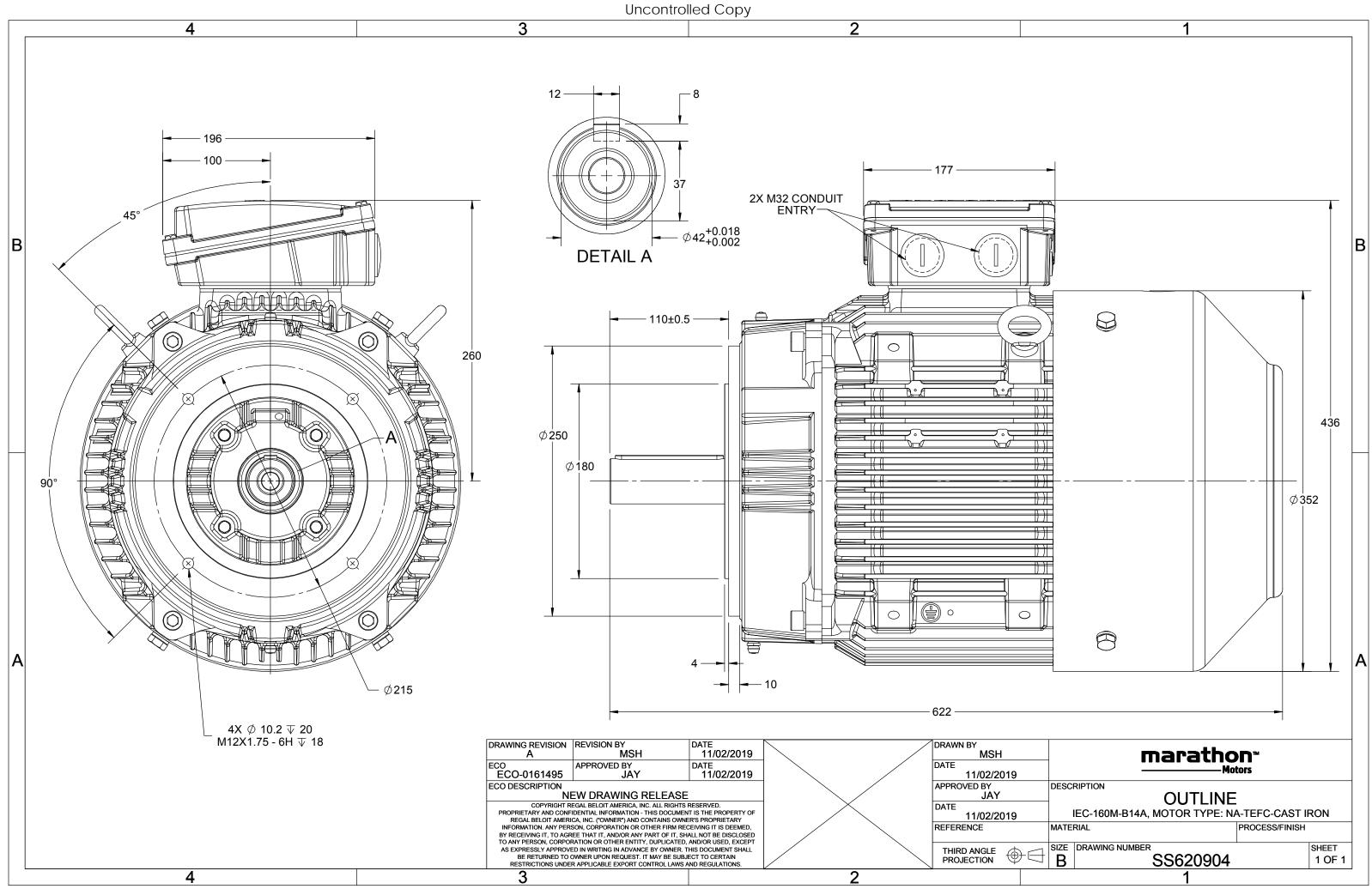
#### Nameplate Specifications

| Phase                  | 3                     | Output HP                  | 15 & 10 Hp                  |  |  |  |
|------------------------|-----------------------|----------------------------|-----------------------------|--|--|--|
| Output KW              | 11.0 & 7.5 kW         | Voltage                    | 230/460 & 200/400 V         |  |  |  |
| Speed                  | 1775 & 1485 rpm       | Service Factor             | 1.15 & 1.15                 |  |  |  |
| Frame                  | 160M                  | Enclosure                  | Totally Enclosed Fan Cooled |  |  |  |
| Thermal Protection     | No Protection         | Efficiency                 | 92.4 & 90.4 %               |  |  |  |
| Ambient Temperature    | 40 °C                 | Frequency                  | 60 & 50 Hz                  |  |  |  |
| Current                | 37.5/18.7 & 33/16.4 A | Power Factor               | 80                          |  |  |  |
| Duty                   | Continuous            | Insulation Class           | F                           |  |  |  |
| Design Code            | N (IEC)               | KVA Code                   | J                           |  |  |  |
| Drive End Bearing Size | 6309                  | Opp Drive End Bearing Size | 6209                        |  |  |  |
| UL                     | Recognized            | CSA                        | Ν                           |  |  |  |
| CE                     | Y                     | IP Code                    | 55                          |  |  |  |
| Number of Speeds       | 1                     | Efficiency Class           | IE3                         |  |  |  |

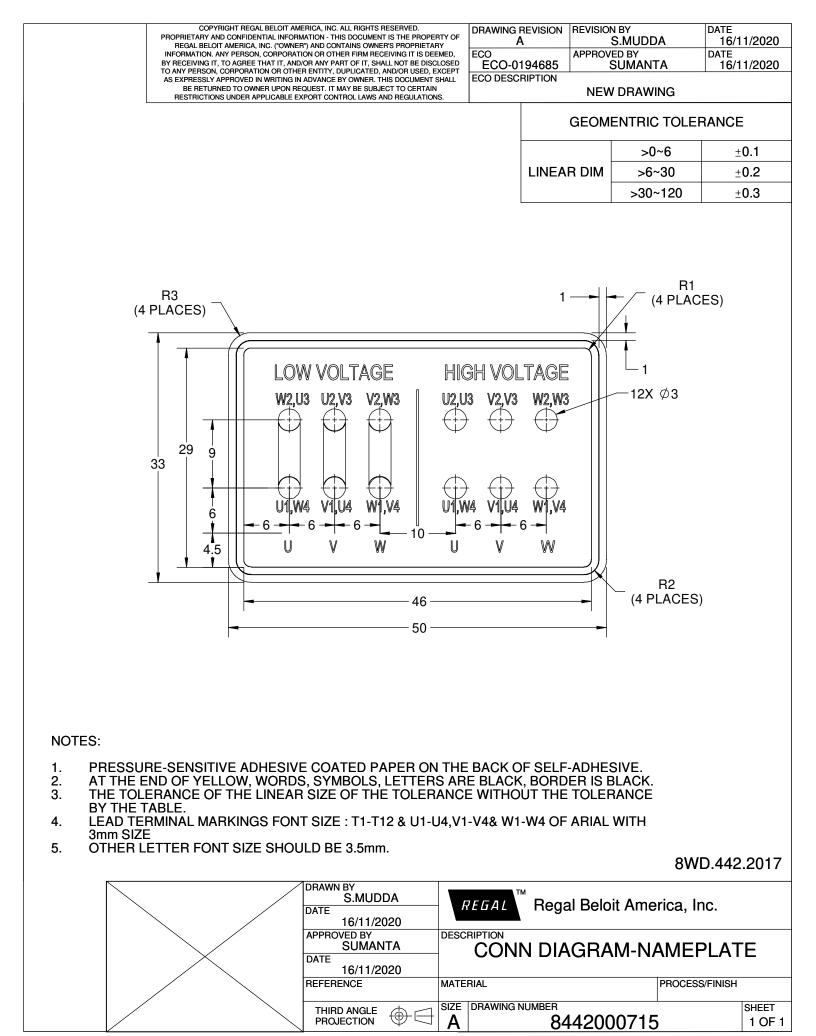
#### **Technical Specifications**

| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method       | Line Or Inverter |  |  |
|-----------------------|------------------------------|-----------------------|------------------|--|--|
| Poles                 | 4                            | Rotation              | Reversible       |  |  |
| Resistance Main       | .69 Ohms                     | Mounting              | Round            |  |  |
| Motor Orientation     | Horizontal                   | Drive End Bearing     | Ball             |  |  |
| Opp Drive End Bearing | Ball                         | Frame Material        | Cast Iron        |  |  |
| Shaft Type            | IEC                          | Overall Length        | 24.49 in         |  |  |
| Frame Length          | 10.00 in                     | Shaft Diameter        | 1.654 in         |  |  |
| Shaft Extension       | 4.33 in                      | Assembly/Box Mounting | F3               |  |  |
| Inverter Load         | CONSTANT 2:1/VARIABLE 10:1   |                       |                  |  |  |
| Outline Drawing       | SS620904                     | Connection Drawing    | 8442000715       |  |  |

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|   |  |                    |  |  |                 |                         |             |                             | P.O. BOX 8003<br>WAUSAU, WI 544<br>PH. 715-675-3311<br>DATA VOLTS: |            |                |            |
|---|--|--------------------|--|--|-----------------|-------------------------|-------------|-----------------------------|--|------------|----------------|------------|
|   |  |                    |  |  | CEF             | RTIFICATION DATA SI     | HEET        |                             |  |            |                |            |
| CUSTOME   |  |                    |  |  |                 |                         |             | OMER P.O. #:                |  |            |                |            |
|   |  |                    |  | REFERENCE MODEL #:<br>CAT #:<br>CUSTOMER PART #: |                 |                         |             |                             |  |            |                |            |
| OUTLINE:  | NN. DIAGRAM: 8442000677<br>TLINE: SS620904 |                    |  |  |                 |                         |             |                             |  |            |                |            |
| WINDING:  |  | IE3L1604201        | NONE   | 1  |                 |                         |             | MOUNTING:                   |  |            |                |            |
| SPEED:  |  |                    |  | _  |                 |                         |             |                             |  |            |                |            |
|   |  |                    |  | T  | YPICAL          | MOTOR PERFORMA          | NCE DA      | TA                          | 1  |            |                |            |
| HP  | ĸw   | SYNC RPM           | FL   | RPM FRAME  |                 | ENCLOSURE TYPE          |             | TYPE                        | KVA CODE   |            | DESIGN         |            |
| 15  | 11.2                                       | 1800               | 1  | 775  |                 | 160M                    | 1           | EFC                         | TCA 160MB04  | J          |                | N          |
|   |  |                    |  |  |                 |                         |             |                             |  |            |                |            |
| PH  | HZ   | VOLTS              | A  | MPS  |                 | START TYPE              | 0           | UTY                         | INSL   | S.F.       | AMB (° C)      | ELEV.(Ft.) |
| 3   | 60/50                                      | 230/460#200/400    | 37.5/18  | .7&33/16.4                                       | l               | LINE OR INVERTER        | C           | ONT                         | F  | 1.15       | 40             | 3300       |
|   |  |                    |  |  |                 |                         |             |                             | 1  |            |                |            |
|   | F.L. EFF<br>F.L. PF                        |                    | 3/4 LD EFF<br>3/4 LD PF  | 92.4<br>73.0                                     |                 | 1/2 LD EFF<br>1/2 LD PF |             |                             | ELECT. TYPE<br>SQ CAGE INV RATED                                   |            |                |            |
|   | 1.E.FI                                     | 00.0               | 3/4 LD F1  | 73.0   |                 | 1/2 LD F1               | 01.0        | 91.5                        |  | SQ CAGE IN | INAILD         |            |
| F.L   | TORQUE                                     | LR AMPS @          | 460 V  |  | L.R. TORQUE     |                         |             | B.D. TOR                    | QUE  | F.L. RISE  | E (° C)        |            |
| 44.4  | LB-FT                                      | 134                |  | 103  | LB-FT           | 232%                    | 142         | LB-FT                       | 320%   | 80         |                |            |
|   |  | 1                  |  |  |                 |                         |             |                             | 1  |            | 1              |            |
| SOUND PRESSURE @ 3<br>FT. SOUND POWER ROTOR WK <sup>2</sup> |  | OR WK <sup>2</sup> | MAX. LOAD WK <sup>2</sup>  |  | SAFE STALL TIME |                         | STARTS/HOUR |                             | APROX.   | MOTOR WGT  |                |            |
| 68  | dBA  | 77 dBA             | 2.54   | LB-FT <sup>2</sup>                               | 2.54            | LB-FT <sup>2</sup>      | 10          | SEC.                        |  | 2          | 150            | KG.        |
|   |  |                    | •  |  |                 |                         |             |                             |  |            |                |            |
|   |  |                    | MOUNT  |  | *** SU          | PPLEMENTAL INFORMA      |             | ARDOUS                      |  |            | 1              |            |
| DE BRACKET TYPE   |  | ODE BRACKET TYPE   | TYPE   | MOTOR ORIE                                       |                 | SEVERE DUTY             | LOC         | CATION                      | DRIP COVER   | SCREENS    | PAINT          |            |
| FT-FLANGE-215   |  | STANDARD           | ROUND  | HORIZOI  | NTAL            | NO                      | N           | IONE                        | NO   | NONE       | BLUE (E        | NAMEL)     |
| BI  | EARINGS                                    |                    |  |  |                 |                         |             |                             |  |            | 1              |            |
| DE  | ODE  | GREASE             | SHAI   | T TYPE   | SPECIAL DE      |                         | SPECIAL ODE |                             | SHAFT MATERIAL   |            | FRAME MATERIAL |            |
| BALL  | BALL                                       | POLYREX EM         | STAN   | ARD IEC NONE                                     |                 | N                       | IONE        | 1045 HOT R                  | OLLED (C-204)  | CAST IRON  |                |            |
| 6309  | 6209                                       | I GETTEX EM        | OTAN   |  |                 | NONE                    |             |                             | 1040110111   | 02204)     | 0401           |            |
|   |  | 1                  |  |  |                 |                         |             |                             | 1  |            | 1              |            |
| THE   | RMOSTATS                                   | PROTECTORS         | wo   | RTD's  |                 | BRG RTD's               | THER        | MISTORS                     | cor  | NTROL      | SPACE          | HEATERS    |
|   | NONE                                       | NOT                |  | ONE  |                 | NONE                    |             | IONE                        |  | ALSE       | N              | IA         |
|   |  |                    |  |  |                 |                         |             |                             |  |            |                |            |
| R1 (ohms/ph)<br>0.435                                       |  | R2 (ohms/ph)       |  | x2 (ohms/ph) x2 (ohms/ph)   1,002 1,229          |                 | Xm (ohms/ph)<br>28.214  |             | VIBRATION (in/sec)<br>0.150 |  | ODE FLOAT  |                |            |
|   | 0.435                                      | 0.208              |  | .002   |                 | 1.229                   | 2           | 0.214                       | 0  | . 150      | 0              | DE         |
| *   |  |                    |  |  |                 |                         |             |                             |  |            |                |            |
| N   |  |                    | INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1<br>INV. HP SPEED RANGE: NONE |  |                 |                         |             |                             |  |            |                |            |
| т   |  |                    |  |  |                 |                         |             |                             |  |            |                |            |
| E   |  |                    |  |  |                 |                         |             | ENCODER:                    | NONE   |            |                |            |
| s<br>*  |  |                    |  |  |                 |                         |             | NONE                        |  |            | NONE           | DDD        |
|   |  |                    |  |  |                 |                         |             | BRAKE:                      | NONE   |            | NONE           | FFK        |
|   | PREPARED BY:                               |                    |  |  |                 |                         |             |                             | NONE   | NON        | E              |            |
|   | DATE:                                      | 11/16/2020         |  |  |                 |                         |             | FT-LB:                      |  | NA         |                |            |
|   |  |                    |  |  |                 |                         |             | VOLTAGE:                    |  | ONE        |                | HZ:        |
| FORM: 35  | 31 REV_4                                   | 2/27/06            |  |  |                 |                         | UL:         | V - LI,ME-INS,              | CONST UL REC   |            |                |            |

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### **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 : TCA0112AE271GAA009

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

Catalog No : R634

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

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

(€ 22

Authorized Representative in the Community:

Julian Clark Marketing Engineer