PRODUCT INFORMATION PACKET



Model No: TCA18P3AE231GAA009

Catalog No: R841

TerraMAX® Cast Iron Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM,

200L Frame, TEFC





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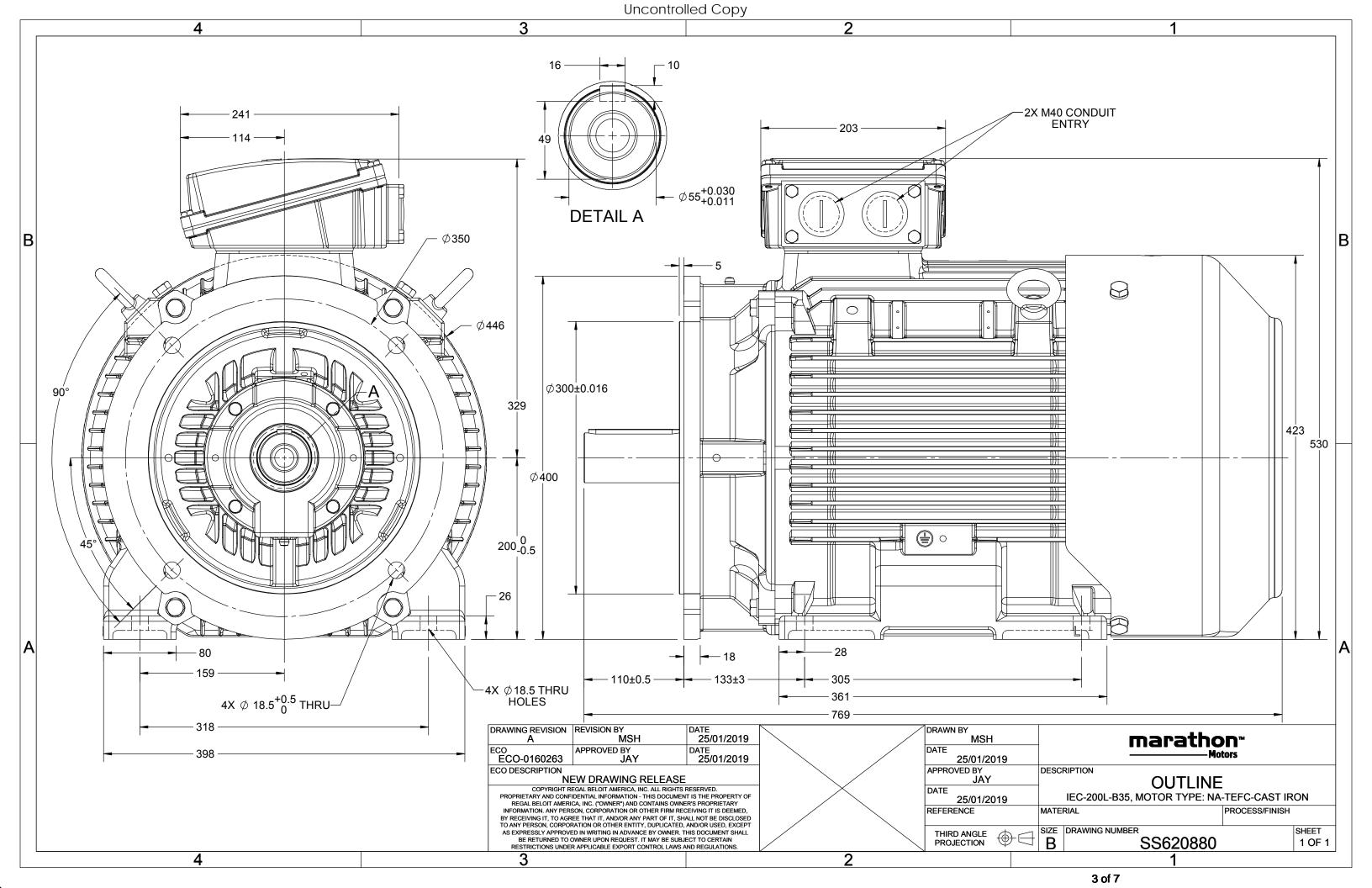
Nameplate Specifications

| Phase | 3 | Output HP | 25 & 20 Hp | | |
|------------------------|-----------------|----------------------------|-----------------------------|--|--|
| Output KW | 18.5 & 15.0 kW | Voltage | 230/460 & 200/400 V | | |
| Speed | 1185 & 990 rpm | Service Factor | 1.15 & 1.15 | | |
| Frame | 200L | Enclosure | Totally Enclosed Fan Cooled | | |
| Thermal Protection | No Protection | Efficiency | 93 & 91.2 % | | |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz | | |
| Current | 64/32 & 64/32 A | Power Factor | 78 | | |
| Duty | Continuous | Insulation Class | F | | |
| Design Code | N (IEC) | KVA Code | J | | |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6212 | | |
| 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 | 6 | Rotation | Reversible |
| Resistance Main | .29 Ohms | Mounting | В3 |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | IEC | Shaft Diameter | 55.000 in |
| Assembly/Box Mounting | F3 | Inverter Load | CONSTANT 2:1/VARIABLE 10:1 |
| Connection Drawing | 8442000715 | Outline Drawing | SS620880 |

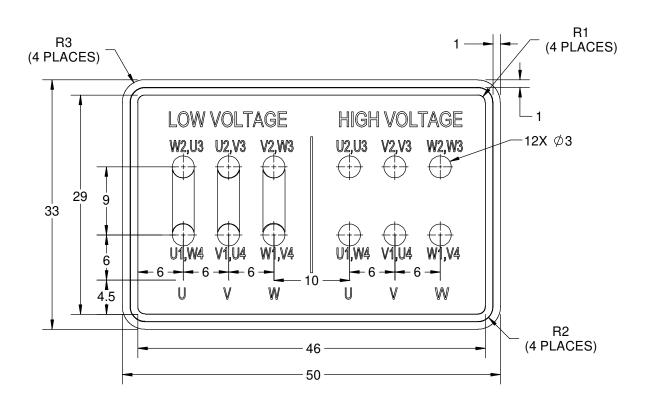
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| DRAWING REVISION | REVISION BY | DATE | | | | | |
|------------------|-------------|------------|--|--|--|--|--|
| Α | S.MUDDA | 16/11/2020 | | | | | |
| ECO | APPROVED BY | DATE | | | | | |
| ECO-0194685 | SUMANTA | 16/11/2020 | | | | | |
| ECO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

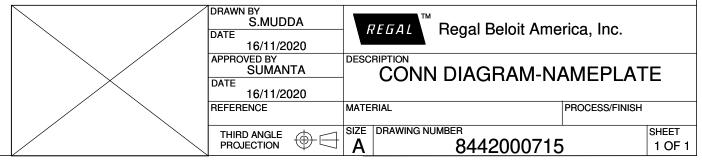
| GEOMENTRIC TOLERANCE | | | | | | |
|----------------------|---------|------|--|--|--|--|
| | >0~6 | ±0.1 | | | | |
| LINEAR DIM | >6~30 | ±0.2 | | | | |
| | >30~120 | ±0.3 | | | | |



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





TerraMAX[™]



| | | | | | CEF | RTIFICATION DATA S | HEET | | P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS: | | | | |
|--------------------------------------------------------------------|--------------------|---------------------------------------|------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------------------|---------------------|------------------------------------|-------------------------------------------------------------------|---------------------|------------------|--------------------|--|
| CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED: | AGRAM: | 8442000677 SS620880 IE3L2006201 | NONE | | | | CUSTO | CAT #: MER PART #: MOUNTING: | TCA18P3AE231G | AA009 8841 | | | |
| НР | кw | SYNC RPM | | . RPM | YPICAL | MOTOR PERFORMA | | | TYPE | 1014.00 | | BESIGN | |
| | | - | | | | FRAME | ENCLOSURE | | | KVA CODE | | DESIGN | |
| 25 | 18.50 | 1200 | 1 1 | 185 | | 200L | TEFC | | TCA 200LA06 | J | | N | |
| PH 3 | HZ 60/50 | VOLTS 230/460#200/400 | | MPS 2&64/32 | l | START TYPE LINE OR INVERTER | | UTY ONT | INSL F | S.F. 1.15 | AMB (° C) | ELEV.(Ft.) 3300 | |
| | F.L. EFF | | 3/4 LD EFF | 93.0 | | 1/2 LD EFF | 91.6 | GTD EFF | | ELECT. T | | | |
| | F.L. PF | 78.0 | 3/4 LD PF | 72.0 | | 1/2 LD PF | 61.0 | 92.0 | | SQ CAGE INV | RATED | | |
| F.L. | . TORQUE | LR AMPS @ | 460 V | | L.R. TORQUE B.D. TOR | | B.D. TOR | RQUE F.L. RISE | | (° C) | | | |
| 111 | LB-FT | 226 | | 263 | LB-FT | 237% | 311 | LB-FT | 280% | 80 | | | |
| SOUND PRESSURE @ 3 FT. SOUND POWER | | | TOR WK ² MAX. LOAD WK ² LB-FT ² 13.4 LB-FT ² | | | | rs/Hour | APROX. | MOTOR WGT | | | | |
| 65 | dBA | 74 dBA | 13.4 | LB-FT ² | 13.4 | LB-F1 | 15 | SEC. | | 2 | 297 | KG. | |
| | | | MOUNT | | *** SU | PPLEMENTAL INFORMA | | | | | | | |
| DE BRACKET TYPE ODE BRACK | | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIE | ORIENTATION SEVERE DUTY | | | | DRIP COVER | SCREENS | PAINT | | |
| FF-F | LANGE-350 | STANDARD | B3 | HORIZO | HORIZONTAL NO NONE | | ONE | NO | NONE BLUE (ENAME | | NAMEL) | | |
| DE BE | EARINGS ODE | GREASE | SHAF | T TYPE | | SPECIAL DE | SPEC | IAL ODE | SHAFT | SHAFT MATERIAL | | FRAME MATERIAL | |
| BALL 6312 | BALL 6212 | SG S5-V100 | STANI | DARD IEC | NONE | | N | ONE | 1045 HOT ROLLED (C-204) | | CAST IRON | | |
| | RMOSTATS NONE | PROTECTORS NOT | | G RTD's ONE | | BRG RTD's NONE | THERMISTORS NONE | | | CONTROL FALSE | | SPACE HEATERS | |
| R1 (ohms/ph) R2 (ohms/ph) | | X1 (o | nms/ph) X2 (ohms/ph) | | Xm (ohms/ph) | | VIBRATION (in/sec) | | FLOAT | | | | |
| | 0.182 0.102 0.669 | | | 1.123 17.189 | | 0.150 | | 0 | DE | | | | |
| * N O T | | | | | | | | INV. HI | P SPEED RANGE: | CONSTANT 2:1/VAF | RIABLE 10:1 | | |
| E S * | | | | | | | | ENCODER: NONE NONE | | | NONE | PPR | |
| PREPARED BY: DATE: 11/27/2020 | | | | | BRAKE: NONE NONE NONE NONE FT-LB: NA | | | | | | | | |
| FORM: 3531 REV_4 2/27/06 | | | | | VOLTAGE: NONE HZ: UL: V - LI,ME-INS,CONST UL REC | | | | | | | | |











REGAL

RPM



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: TCA18P3AE231GAA009

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

Catalog No : R841

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. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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