PRODUCT INFORMATION PACKET



Model No: TCA5P52AE251GAA009

Catalog No: R928

TerraMAX® Cast Iron Motor, 7.50 & 5.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,

132S Frame, TEFC







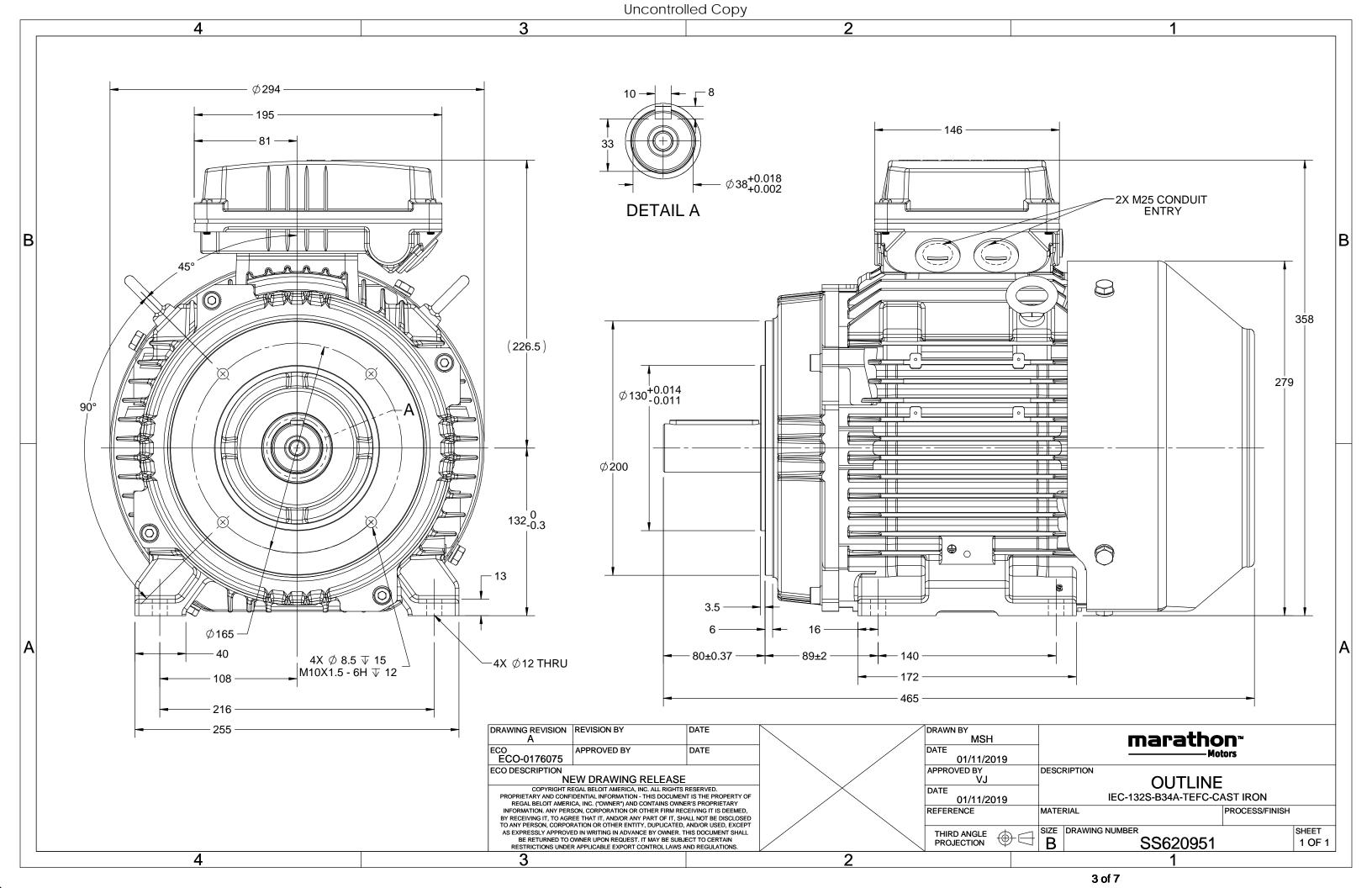
Nameplate Specifications

| Phase | 3 | Output HP | 7.50 & 5.50 Hp 230/460 & 200/400 V | | | |
|------------------------|-----------------------|----------------------------|---------------------------------------|--|--|--|
| Output KW | 5.5 & 4.0 kW | Voltage | | | | |
| Speed | 1775 & 1480 rpm | Service Factor | 1.15 & 1.15 | | | |
| Frame | 132S | Enclosure | Totally Enclosed Fan Cooled | | | |
| Thermal Protection | No Protection | Efficiency | 91.7 & 88.6 % | | | |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz | | | |
| Current | 19.6/9.8 & 17.6/8.8 A | Power Factor | 77 | | | |
| Duty | Continuous | Insulation Class | F | | | |
| Design Code | N (IEC) | KVA Code | J | | | |
| Drive End Bearing Size | 6308 | Opp Drive End Bearing Size | 6208 | | | |
| 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 | 1.56 Ohms | Mounting | B3 | | | |
| Motor Orientation | Horizontal | Drive End Bearing | Ball | | | |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron | | | |
| Shaft Type | IEC | Shaft Diameter | 38.000 in | | | |
| Assembly/Box Mounting | F3 | Inverter Load | CONSTANT 2:1/VARIABLE 10:1 | | | |
| Outline Drawing | SS620951 | Connection Drawing | 8442000715 | | | |

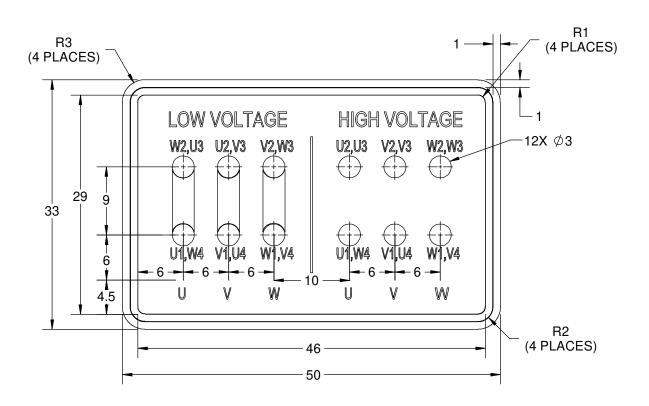
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| DRAWING REVISION | REVISION BY | DATE | | | | | |
|------------------|-------------|------------|--|--|--|--|--|
| Α | S.MUDDA | 16/11/2020 | | | | | |
| ECO | APPROVED BY | DATE | | | | | |
| ECO-0194685 | SUMANTA | 16/11/2020 | | | | | |
| ECO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

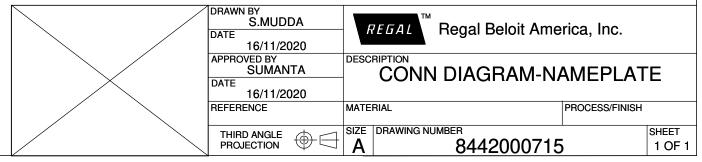
| GEOMENTRIC TOLERANCE | | | | | | |
|----------------------|---------|------|--|--|--|--|
| | >0~6 | ±0.1 | | | | |
| LINEAR DIM | >6~30 | ±0.2 | | | | |
| | >30~120 | ±0.3 | | | | |



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[™]



| | | | | | | | | | P.O. BOX 8003 | | | |
|--------------------------|--------------|------------------------------|------------|---|-----------------------|--|-------------------|-----------------------------|-------------------------|------------------|------------------------|------------|
| | | | | | WAUSAU, WI 54401-8003 | | | | | | | |
| | | | | | | | | PH. 715-675-3311 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | DATA VOLTS: | 460 | | |
| | | | | | | | | | | | | |
| | | | | | CEF | RTIFICATION DATA SI | HEET | | | | | |
| | | | | | | | | | | | | |
| CUSTOME | | | | | | | | OMER P.O. #: | | | | |
| ORDER #: | | | | | | REFERENCE MODEL #: CAT #: CUSTOMER PART #: | | | | | | |
| CONN. DIA | | 8442000677 | | | | | | F | R928 | | | |
| OUTLINE: | | SS620951 | NONE | 4 | | | | MOUNTING: | F2 | | | |
| WINDING: SPEED: | | IE3L1324201 | NONE | 1 | | | | WOUNTING: | rs | | | |
| SPEED. | | | | - | VDIC AI | MOTOR PERFORMA | NCE DA | т. | | | | |
| | 1 | | | | IFICAL | WICTOR FERFORWIA | NCEDA | IA. | T | I | | |
| HP | кw | SYNC RPM | FL | . RPM | | FRAME ENCLOSURE | | TYPE | KVA CODE | | DESIGN | |
| | | | | | | | | | | | | |
| 7.5 | 5.50 | 1800 | 1 | 775 | | 132S | Т | EFC | TCA 132SA04 | J | | N |
| | | | | | | | | | | | | |
| PH | HZ | VOLTS | А | MPS | | START TYPE | D | UTY | INSL | S.F. | AMB (° C) | ELEV.(Ft.) |
| 3 | 60/50 | 230/460#200/400 | 19.6/9.8 | 8&17.6/8.8 | ı | INE OR INVERTER | | ONT | F | 1.15 | 40 | 3300 |
| | | | | | | | | | ' | | • | • |
| | F.L. EFF | 91.7 | 3/4 LD EFF | 91.7 | | 1/2 LD EFF | 90.3 | GTD EFF | | ELECT. T | YPE | |
| | F.L. PF | 77.0 | 3/4 LD PF | 69.0 | | 1/2 LD PF | 57.0 | 90.5 | | SQ CAGE IN\ | / RATED | |
| | | | | | | | | | | | | |
| | . TORQUE | LR AMPS @ | 460 V | | | B.D. TORO | | | | € (° C) | | |
| 22.2 | LB-FT | 73.4 | | 54.2 | LB-FT | 244% | 71.3 | LB-FT | 321% | 75 | | |
| COLIND | PRESSURE @ 3 | | | | 1 | | | | | | • | |
| SOUND | FT. | SOUND POWER | ROT | OR WK ² | | MAX. LOAD WK ² | SAFE S | TALL TIME | STAR | TS/HOUR | APROX. | MOTOR WGT |
| 65 | dBA | 74 dBA | | LB-FT ² 1.1 LB-FT ² | | 10 SEC. | | 2 | | 93 | KG. | |
| | | | • | | | | | | | | • | • |
| | | | | | *** SU | PPLEMENTAL INFORMA | | | | | | |
| | | | MOUNT | | | SEVERE DUTY | | RDOUS | | | | |
| | ACKET TYPE | ODE BRACKET TYPE STANDARD | TYPE B3 | | TOTA OTTILE TOTAL | | | ONE | NO NO | | PAINT BLUE (ENAMEL) | |
| FI-F | LANGE-165 | STANDARD | ВЗ | HURIZU | NIAL | NO | IN | UNE | NO | NONE | BLUE (E | ENAMEL) |
| BI | EARINGS | | | | | | | | I | | | |
| DE D. | ODE | GREASE | SHAF | T TYPE | SPECIAL DE | | SPECIAL ODE | | SHAFT MATERIAL | | FRAME MATERIAL | |
| BALL | BALL | | | | | | | | | | + | |
| 6308 | 6208 | POLYREX EM | STANL | DARD IEC | NONE | | NONE | | 1045 HOT ROLLED (C-204) | | CAST IRON | |
| | • | | | | | <u> </u> | | | ' | | • | |
| | | | | | | | | | | | SPACE | HEATERS |
| THERMOSTATS PROTECTORS | | | | WDG RTD's BRG RTD's | | THERMISTORS | | CONTROL | | | | |
| | NONE | NOT | N | ONE | | NONE | N | ONE | F. | ALSE | 1 | NA . |
| | | | | | I | I | | | | | | |
| R1 (ohms/ph) R2 (ohms/ph | | 0.454 | | 1 (ohms/ph) X2 (ohms/ph) 2.004 2.572 | | | hms/ph) 0.242 | VIBRATION (in/sec) 0.150 | | FLOAT ODE | | |
| | 0.908 | 0.454 | | .004 | | 2.572 | 48 | 1.242 | | 1.150 | | DE |
| * | | | | | | | | | | | | |
| N | | | | | | | | INV | FRTER TOROUE | CONSTANT 2:1/VAF | RIABLE 10:1 | |
| Ö | | | | | | SPEED RANGE: | | | | | | |
| Т | | | | | | | | | | | | |
| E | | | | | | | | ENCODER: | NONE | | | |
| S | | | | | NONE | | | | | | | |
| * | | | | | | | | NONE | | | NONE | PPR |
| | | | | | | BRAKE: | NONE | | | | | |
| | PREPARED BY: | | | | | | NONE NONE | | | | | |
| DATE: 11/27/2020 | | | | | FT-LB: NA | | | | | | | |
| | | | | | | | VOLTAGE: NONE HZ: | | | | | |
| FORM: 3531 REV_4 2/27/06 | | | | | | UL: V - LI,ME-INS,CONST UL REC | | | | | | |

REGAL









REGAL



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: TCA5P52AE251GAA009

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

Catalog No: R928

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

(€ 22