PRODUCT INFORMATION PACKET

Model No: TCA0553AE231GAA009 Catalog No: R859 Cast Iron Motor, 75 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 280M Frame, TEFC



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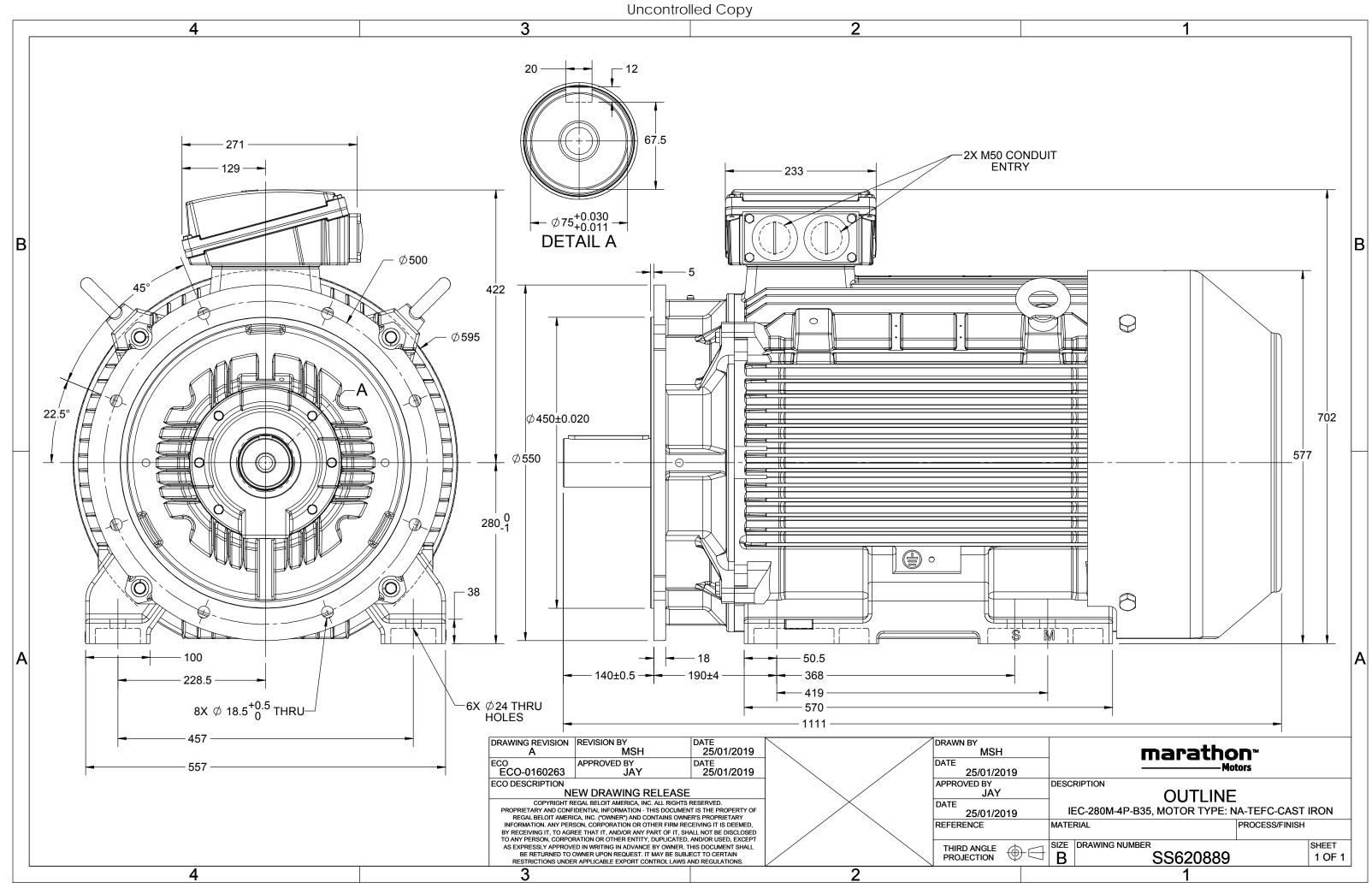
Nameplate Specifications

| Output HP | 75 Нр | Output KW | 55.0 kW 230/460 V 1190 rpm | | | |
|------------------------|---------------|----------------------------|----------------------------------|--|--|--|
| Frequency | 60 Hz | Voltage | | | | |
| Current | 174.0/87.0 A | Speed | | | | |
| Service Factor | 1.15 | Phase | 3 | | | |
| Efficiency | 94.5 % | Power Factor | 84 | | | |
| Duty | Continuous | Insulation Class | F | | | |
| Design Code | N (IEC) | KVA Code | G | | | |
| Frame | 280M | Enclosure | Totally Enclosed Fan Cooled | | | |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C | | | |
| Drive End Bearing Size | 6317 | Opp Drive End Bearing Size | 6317 | | | |
| UL | Recognized | CSA | N | | | |
| CE | Y | IP Code | 55 | | | |
| Number of Speeds | 1 | Efficiency Class | IE3 | | | |

Technical Specifications

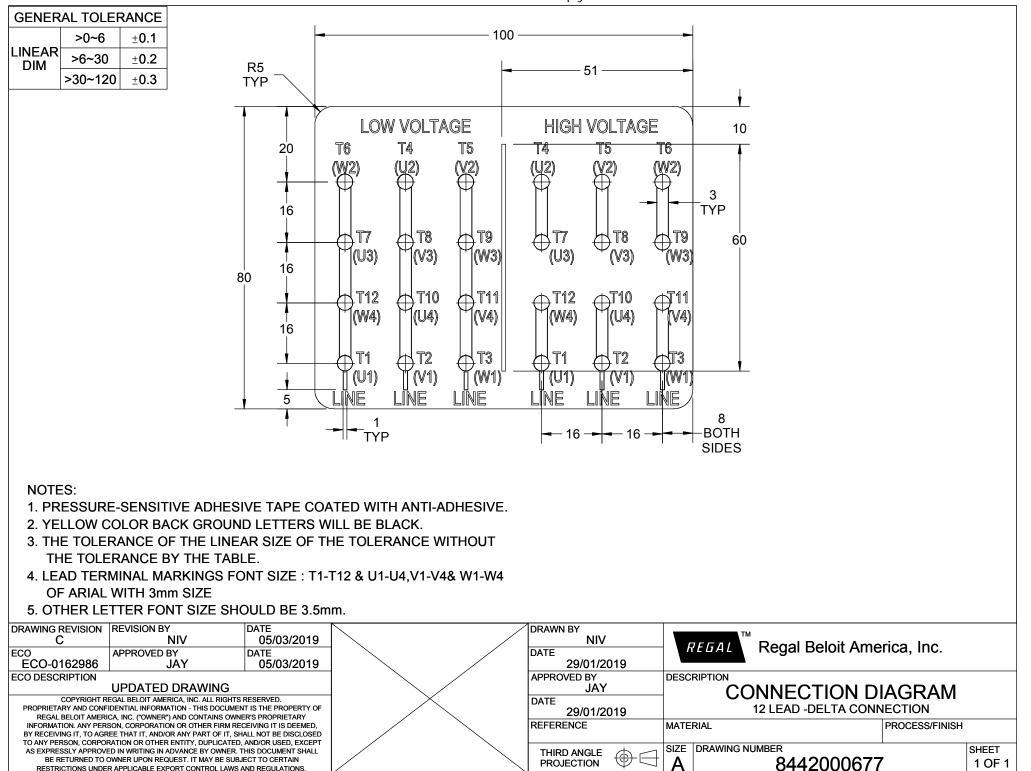
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter | | | |
|-----------------------|------------------------------|-------------------|----------------------------|--|--|--|
| Poles | 6 | Rotation | Reversible | | | |
| Resistance Main | .07 Ohms | Mounting | B3 | | | |
| Motor Orientation | Horizontal | Drive End Bearing | Ball | | | |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron | | | |
| Shaft Type | IEC | Shaft Diameter | 75.000 in | | | |
| Assembly/Box Mounting | F3 | Inverter Load | CONSTANT 2:1/VARIABLE 10:1 | | | |
| Outline Drawing | outline Drawing SS620889 | | 8442000677 | | | |

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3 of 6

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PROJECTION

RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

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|-------------------|--------------|------------------|-------------------|-----------------------|------------------|---|--------------------|----------------|-----------------------------|-----------------|--------------|------------|
| | | | | WAUSAU, WI 54401-8003 | | | | | | | | |
| | | | | | | | | | PH. 715-675-331 | | | |
| | | | | | | | | | | • | | |
| | | | | | | | | | DATA VOLTS: | 460 | | |
| | | | | | CE | RTIFICATION DATA S | HEET | | | | | |
| | | | | | 02 | | | | | | | |
| CUSTOME | | | | _ | | | | OMER P.O. #: | | | | |
| ORDER #: | | | | | | | REFERENCE MODEL #: | | | | | |
| CONN. DI | | 8442000677 | | | | | | CAT #: | | 859 | | |
| OUTLINE: | | SS620889 | | | | | CUSTO | MER PART #: | | | | |
| WINDING: | | IE3L280620 | 2 NONE | 1 | | | | MOUNTING: | F3 | | | |
| SPEED: | | | | _ | | . MOTOR PERFORMA | | T 4 | | | | |
| | | | | | | | | | | | | |
| HP | KW | SYNC RPM | FL RPM | | | FRAME | ENCLOSURE | | TYPE | KVA CODE | | DESIGN |
| 75 | 55.00 | 1200 | | 1190 | | 280M | т | EFC | TCA 280MA06 | G | i | Ν |
| | | | | | | | | | | | | |
| PH | HZ | VOLTS | | MPS | | START TYPE | 0 | UTY | INSL | S.F. | AMB (° C) | ELEV.(Ft.) |
| 3 | 60/50 | 230/460#200/400 | 174/8 | 7&166/83 | | LINE OR INVERTER | C | ONT | F | 1.15 | 40 | 3300 |
| | | | | | | | | | | | | |
| | F.L. EFF | 94.5 | 3/4 LD EFF | 94.5 | | 1/2 LD EFF | 93.3 | GTD EFF | | ELECT. | TYPE | |
| | F.L. PF | 84.0 | 3/4 LD PF | | | 1/2 LD PF | 73.0 | 93.7 | | SQ CAGE IN | V RATED | |
| | | | | | | | | | | | | |
| F.L | TORQUE | LR AMPS @ | 2 460 V | | L.R. TORQUE B.D. | | B.D. TOR | RQUE F.L. RIS | | E (°C) | | |
| 331 LB-FT 549 583 | | 583 | LB-FT 176% 792 LE | | LB-FT | 239% 80 | | | | | | |
| | | | | | | | | | | | | |
| SOUND | PRESSURE @ 3 | | | | | | | | | | | |
| | FT. | SOUND POWER | | OR WK ² | | MAX. LOAD WK ² | | TALL TIME | STAR | TS/HOUR | APROX. | MOTOR WGT |
| 68 | dBA | 77 dBA | 63.5 | LB-FT ² | 63.5 | LB-FT ² | 15 | SEC. | | 2 | 699 | KG. |
| | | | | | *** SL | IPPLEMENTAL INFORMA | TION *** | | | | | |
| | | | MOUNT | | | | | ARDOUS | | | | |
| DE BR | ACKET TYPE | ODE BRACKET TYPE | TYPE | MOTOR ORI | ENTATION | SEVERE DUTY | | CATION | DRIP COVER | SCREENS | PA | INT |
| FF-F | LANGE-500 | STANDARD | B3 | HORIZO | NTAL | NO | N | IONE | NO | NONE | BLUE (E | NAMEL) |
| | | | | | | | | | | | • | |
| B | EARINGS | GREASE | SHA | FT TYPE | | SPECIAL DE | SPEC | IAL ODE | SHAFT | MATERIAL | | |
| DE | ODE | OREADE | | SFECIAL DE | | SPECIAL ODE | | SHALL | | FRAME MATERIAL | | |
| BALL | BALL | SG S5-V100 | STANDARD IEC | | NONE | | N 1 | IONE | 1045 HOT F | OLLED (C-204) | CAST IRON | |
| 6314 | 6314 | 00 00-1100 | UTAN | BARBIEG | | NONE | | | 104011011 | (0-204) | 0/101 | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | SPACE | HEATERS |
| | RMOSTATS | PROTECTORS | | G RTD's | | BRG RTD's | | MISTORS | | NTROL | - | - |
| | NONE | NOT | 1 | IONE | | NONE | N | IONE | F | ALSE | N | IA |
| | | | 1 | | 1 | | | | | | | |
| R1 (ohms/ph) | | R2 (ohms/ph) | | ohms/ph) | | | | ohms/ph) | VIBRATION (in/sec) 0.150 | | FLOAT ODE | |
| | 0.042 | 0.030 | | 0.284 | | 0.416 | 5 | 8.596 | (| 0.150 | 0 | DE |
| | | | | | | | | | | | | |
| N | | | | | | | | | | CONSTANT 2.10/A | | |
| N O | | | | | | INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1 | | | | | | |
| т | | | | | | INV. HP SPEED RANGE: NONE | | | | | | |
| | | | | | | | | | NONE | | | |
| E | | | | | | | - | ENCODER: | NONE | | | |
| s * | | | | | | | | NONE | | | | |
| • | | | | | | | | NONE | NONE | | NONE | PPR |
| | | | | | | BRAKE: | | | | | | |
| 1 | PREPARED BY: | | | | | | | | NONE | NO | NE | |
| | DATE: | 11/27/2020 | | | | | | FT-LB: | | NA | | |
| | | | | | | | | VOLTAGE: | | IONE | | HZ: |
| +ORM: 35 | 531 REV_4 | 2/27/06 | | | | | UL: | v - LI,ME-INS, | CONST UL REC | | | |

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