PRODUCT INFORMATION PACKET



Model No: 284TTGCD16539 Catalog No: U029B

Hazardous Duty® Explosion Proof Motor, 25 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 284T Frame, EPFC



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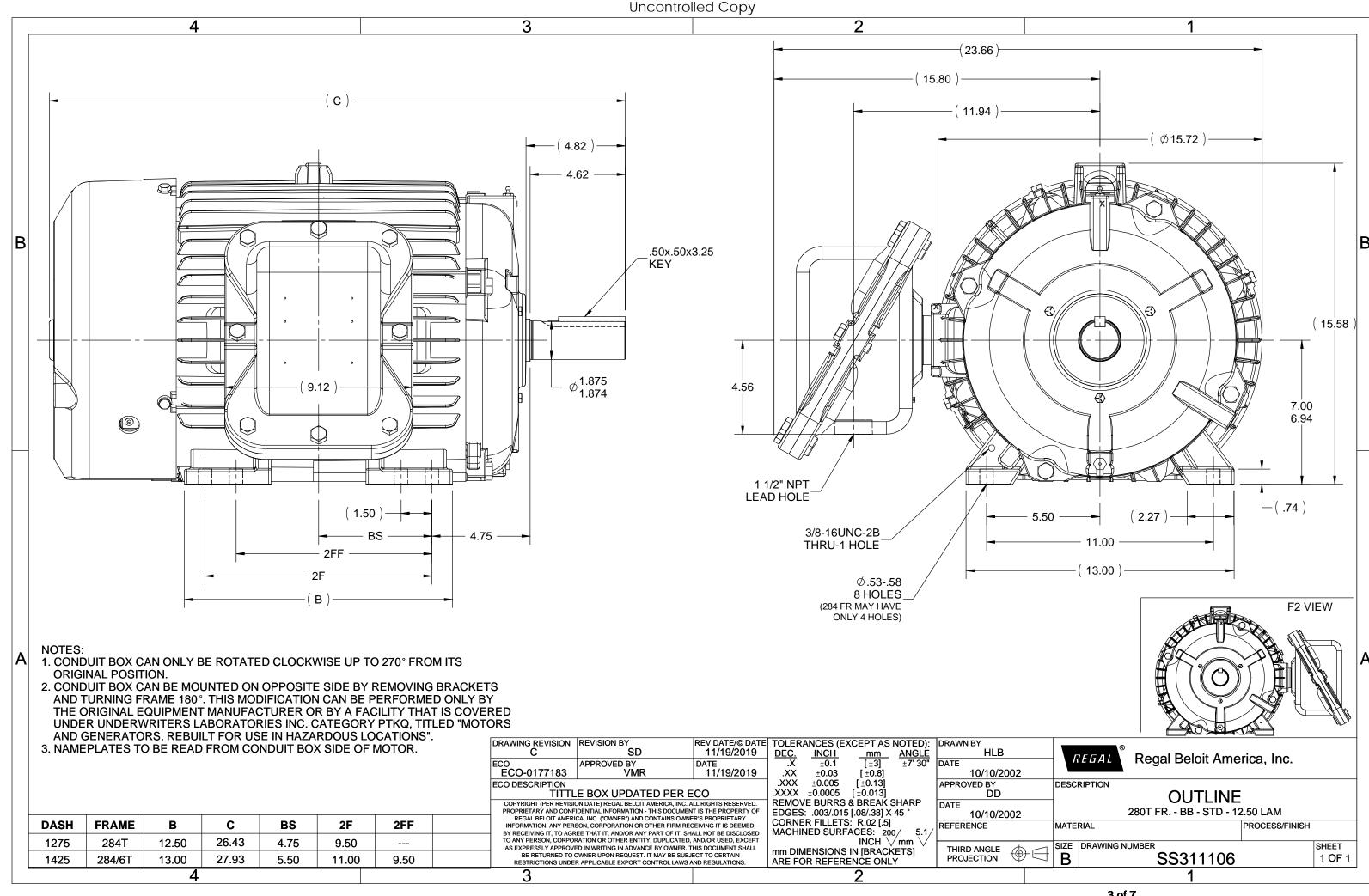
Nameplate Specifications

| Output HP | 25 Hp | Output KW | 18.7 kW | | |
|------------------------|---|----------------------------|----------------------------|--|--|
| Frequency | 60 Hz | Voltage | 575 V | | |
| Current | 24.0 A | Speed | 1772 rpm | | |
| Service Factor | 1 | Phase | 3 | | |
| Efficiency | 93.6 % | Power Factor | 83 | | |
| Duty | Continuous | Insulation Class | F | | |
| Design Code | В | KVA Code | G | | |
| Frame | 284T | Enclosure | Explosion Proof Fan cooled | | |
| Thermal Protection | Thermostat | Ambient Temperature | 50 °C | | |
| Drive End Bearing Size | 6311 | Opp Drive End Bearing Size | 6210 | | |
| UL | UL Listed And CSA Certified | CSA | Υ | | |
| CE | N | IP Code | 54 | | |
| Hazardous Location | DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C | Number of Speeds | 1 | | |

Technical Specifications

| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line | | |
|-----------------------|-----------------------------|--------------------|-----------------|--|--|
| Poles | 4 | Rotation | Reversible | | |
| Resistance Main | .2988 Ohms | Mounting | Rigid Base | | |
| Motor Orientation | Horizontal | Drive End Bearing | Ball | | |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron | | |
| Shaft Type | Т | Shaft Diameter | 1.875 in | | |
| Assembly/Box Mounting | F1 ONLY | | | | |
| Outline Drawing | SS311106-1275 | Connection Drawing | EE7300T | | |

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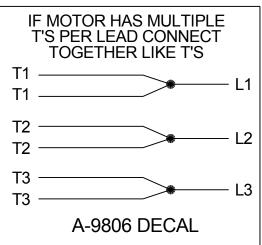


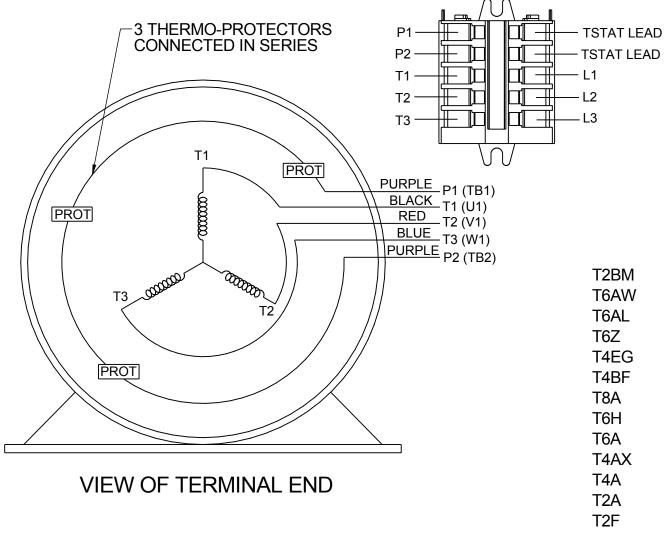
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THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION: INTERCHANGE ANY TWO LINE LEAD CONNECTIONS

NOTE FOR FACTORY USE ONLY: TO SURGE TEST: FOR 3 LEAD COMMON CONNECT: CONNECT P1 TO T1 THEN P2 TO L1 FOR 6 LEAD COMMON CONNECT: CONNECT P1 TO BOTH T1 THEN P2 TO L1





| DRAWING REVISION | REVISION BY | DATE |
|------------------|-------------|------------|
| AB | AJW | 07-17-2015 |
| ECO | APPROVED BY | DATE |
| ECO-0081632 | T.VUE | 07-17-2015 |
| ECO DECODIDATION | | |

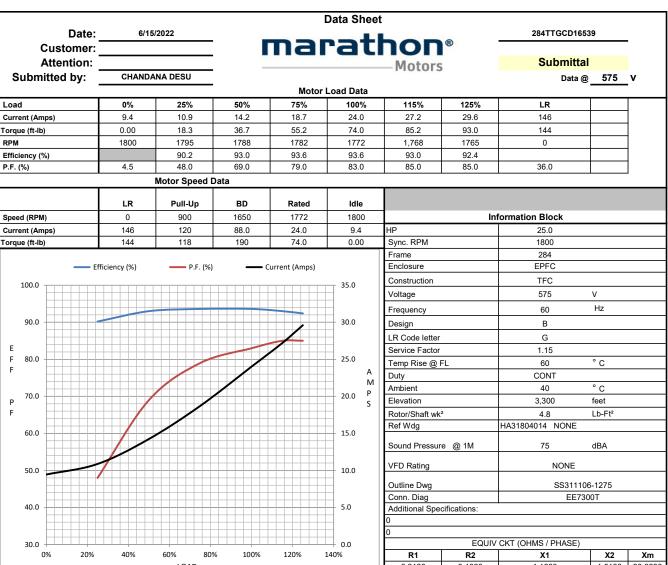
REV'D IEC MARKINGS PER IEC-60034-8

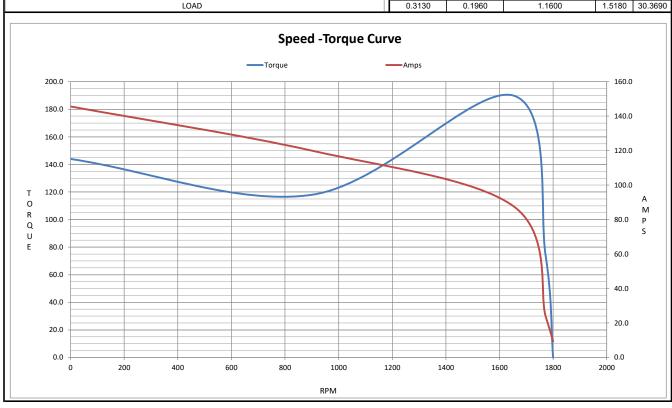
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| | DRAWN BY LZ DATE 01-04-1994 | REGAL [™] Regal Beloit America, Inc. | | | | | | |
|---|--------------------------------------|---|-----------------|--|--|--|--|--|
| | APPROVED BY GK DATE 01-20-1994 | DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR | | | | | | |
| | REFERENCE | MATERIAL | PROCESS/FINISH | | | | | |
| \ | THIRD ANGLE PROJECTION | SIZE DRAWING NUMBER EE7300T | SHEET 1 OF 1 | | | | | |

TERMINIAL BLOCK WHEN SPECIFIED

| | | | | | | P.O. BOX 8003 | | | | | | |
|--|--------------------------|-----------------------------|---------------|-------------------------------|--|--------------------|-------------------------|--------------------------|-------------------------|-----------------|-------------------------|-----------|
| manathon | | | | | | | | | WI 54401-8003 | | | |
| marathon [®] | | | | | | | PH. 715-6 | 75-3311 | | | | |
| | | | | | | Motors | | DAT | A VOLTS: | 575 | | |
| | | | | | | | | DAI | A VOLIS. | 373 | | |
| | CERTIFICATION DATA SHEET | | | | | | | | | | | |
| сиѕтом | ER: | | | | | | CUSTO | MER P.O. #: | R P.O. #: | | | |
| ORDER # | : | | | | | R | REFERENC | E MODEL #: | 284TTGCE | 016539 | | |
| CONN. DI | | EE7300T | | | | | | CAT #: | | U029B | | |
| OUTLINE | | SS311106-1275 HA31804014 | NONE | 4 | | | CUSTO | MER PART #: MOUNTING: | E4 ONLY | | | |
| SPEED: | | TM31004014 | NONE | 4 | | | | WOUNTING: | FIUNLT | | | |
| | | | | т | YPICAL | MOTOR PERFORMA | NCE D | ATA | | | | |
| НР | kw | SYNC RPM | FL | . RPM | | FRAME | ENC | LOSURE | TYPE | KVA CODE | | DESIGN |
| 05 | 18.7 | 1800 | | 1772 | | 284T | | EPFC | TFC | | | В |
| 25 | 10.7 | 1800 | | 1112 | | 2041 | | PFC | IFC | G | | В |
| PH | HZ | VOLTS | Δ | MPS | | START TYPE | | DUTY | INSL | S.F. | AMB | ELEV. |
| 3 | 60 | 575 | | 24 | | ACROSS THE LINE | | CONT | F | 1.15 | 50 | 3300 |
| | • | | | | | | | | | | | |
| | F.L. EFF | | 3/4 LD EFF | 93.6 | | 1/2 LD EFF | 93.0 | GTD EFF | | ELECT. | | |
| | F.L. PF | 83.0 | 3/4 LD PF | 79.0 | | 1/2 LD PF | 69.0 | 93.0 | | SQ CAGE I | ND RUN | |
| - | TORQUE | LR AMPS @ | 460 V | I | | TORQUE | B.D. TORQUE | | _ | F.L. RISE (° C) | | |
| | LB-FT | 146 | 400 V | 144 | LB-FT | 195% | 190 | LB-FT | 257% | 60 | | |
| | | | | | | | | | | | | |
| SOUND | PRESSURE @ 3 FT. | SOUND POWER | ВОТ | OR WK² | | MAY LOAD WIZ | CAFE | TALL TIME | | STARTS/HOUR | APROX. | MOTOR WGT |
| 75 | dBA | 84 dBA | 4.8 | LB-FT ² | MAX. LOAD WK ² 175 LB-FT ² | | SAFE STALL TIME 20 SEC. | | 2 | | | LB. |
| | ubri | O. UDA | ` ' | | | | | 020. | | | 0.0 | |
| | | | | | *** SU | PPLEMENTAL INFORMA | | | | | | |
| DE DE | ACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIE | NTATION | SEVERE DUTY | | ARDOUS CATION | DRIP COVER SCREENS | | PAINT | |
| | TANDARD | STANDARD | RIGID | HORIZOI | | | | | | | BLUE - RAL 5003 (EPOXY) | |
| | | | | • | | | | | | | | , , |
| | EARINGS | GREASE | SHAI | T TYPE | | SPECIAL DE | SPE | CIAL ODE | SHAFT MATERIAL | | FRAME MATERIAL | |
| DE BALL | ODE BALL | | | | | | | | | | | |
| 6311 | 6210 | POLYREX EM | | Т | | NONE | 1 | IONE | 1045 HOT ROLLED (C-204) | | CAST IRON | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | SPAC | E HEATERS |
| | RMOSTATS | PROTECTORS | | /DG RTD's BRG RTD's NONE NONE | | THERMISTORS | | CONTROL | | - | NA | |
| 15 | TATS (N/C) | NOT | N | ONE | NONE | | NONE | | FALSE | | NA NA | |
| R1 | (ohms/ph) | R2 (ohms/ph) | X1 (o | hms/ph) | X2 (ohms/ph) Xm (ohms/p | | ohms/ph) | VIBRATION (in/sec) | | FLOAT | | |
| | .4890625 | 0.30625 | | 8125 | | 2.371875 | | 1515625 | 0.080 | | ODE | |
| L. | 1 | | | | | | | | | | | |
| N | | | | | | | | INVEDTED | TOPOUE: | NONE | | |
| Ö | | | | | INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE | | | | | | | |
| Ť | | | | | | - CALLED IONOL. | | | | | | |
| E | | | | | | | ENCODER: | NONE | | | | |
| s | | | | | | NONE | | | | | | |
| * | | | | | | NONE | NONE | | NONE | PPR | | |
| | DDEDADED SY | CHANDANA DECH | | | | | | BRAKE: | | NONE | | |
| PREPARED BY: CHANDANA DESU DATE: 6/15/2022 | | | | NONE NONE FT-LB: NA | | | | | | | | |
| MATERIA DI CONTROLLA DI CONTROL | | | | | VOLTAGE: NONE HZ: | | | | | | | |
| FORM: 3 | FORM: 3531 REV_4 2/27/06 | | | | | UL: | | - ALL BRAN | NDS-UL LISTED AND CSA C | ERTIFIED D | | |





CERTIFICATE OF COMPLIANCE

 Certificate Number
 20220325- E12044

 Report Reference
 E12044-19991213

Issue Date 2022-MARCH-25

Issued to: REGAL BELOIT AMERICA INC

1946 W COOK RD

FORT WAYNE IN 46818

Tradename: Marathon

This certificate confirms that representative samples of

MOTORS FOR USE IN HAZARDOUS LOCATIONS

Electric motors for use in hazardous locations; Class I, Groups C and D; Class II, Groups F and G; Inclusive of Model Number 284TTGCD16539 (may have prefix and/or

suffix characters).

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 674 - Electric Motors and Generators for Use in Division

1 Hazardous (Classified) Locations,

CSA C22.2 No. 145, Electric Motors and Generators for

Use in Hazardous (Classified) Locations

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Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Bambles

Bruce Mahrenholz, Director North American Certification Program

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