PRODUCT INFORMATION PACKET

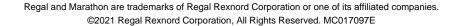


Model No: 284TTFNA16015 Catalog No: M896B

25 HP Vertical Solid Shaft P-Base Motor, 3 phase, 3600 RPM, 230/460 V, 284HPV Frame, TEFC

Vertical Pump Motors







Product Information Packet: Model No: 284TTFNA16015, Catalog No:M896B 25 HP Vertical Solid Shaft P-Base Motor, 3 phase, 3600 RPM, 230/460 V, 284HPV Frame, TEFC



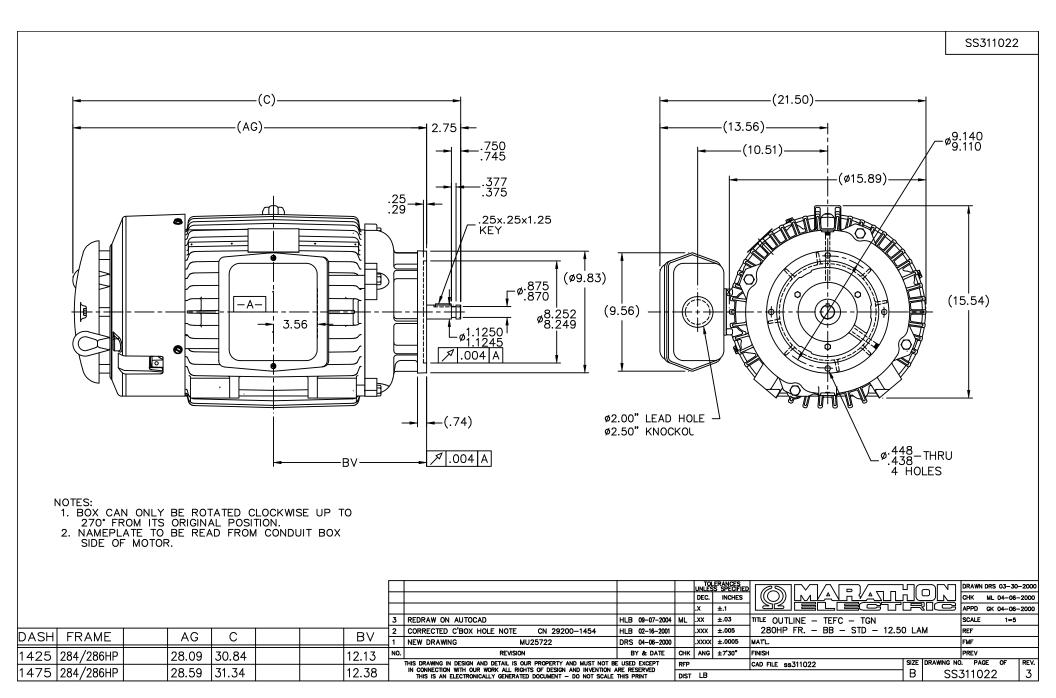
Nameplate Specifications

| Output HP | 25 Hp | Output KW | 18.7 kW | | |
|------------------------|-------------|----------------------------|-----------------------------|--|--|
| Frequency | 60 Hz | Voltage | 230/460 V | | |
| Current | 56.0/28.1 A | Speed | 3555 rpm | | |
| Service Factor | 1.15 | Phase | 3 | | |
| Efficiency | 93.6 % | Power Factor | 89 | | |
| Duty | Continuous | Insulation Class | F | | |
| Design Code | В | KVA Code | G | | |
| Frame | 284HPV | Enclosure | Totally Enclosed Fan Cooled | | |
| Thermal Protection | No | Ambient Temperature | 40 °C | | |
| Drive End Bearing Size | 6311 | Opp Drive End Bearing Size | 6210 | | |
| UL | Recognized | CSA | Υ | | |
| CE | Υ | IP Code | 43 | | |
| Number of Speeds | 1 | | | | |

Technical Specifications

| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
|-----------------------|-----------------------------|-----------------------|-----------------|
| Poles | 2 | Rotation | Reversible |
| Resistance Main | .356 Ohms | Mounting | Round |
| Motor Orientation | Shaft Down | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | HP | Overall Length | 30.84 in |
| Frame Length | 14.25 in | Shaft Diameter | 1.125 in |
| Shaft Extension | 2.75 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Connection Drawing | A-EE7308 | Outline Drawing | B-SS311022-1425 |

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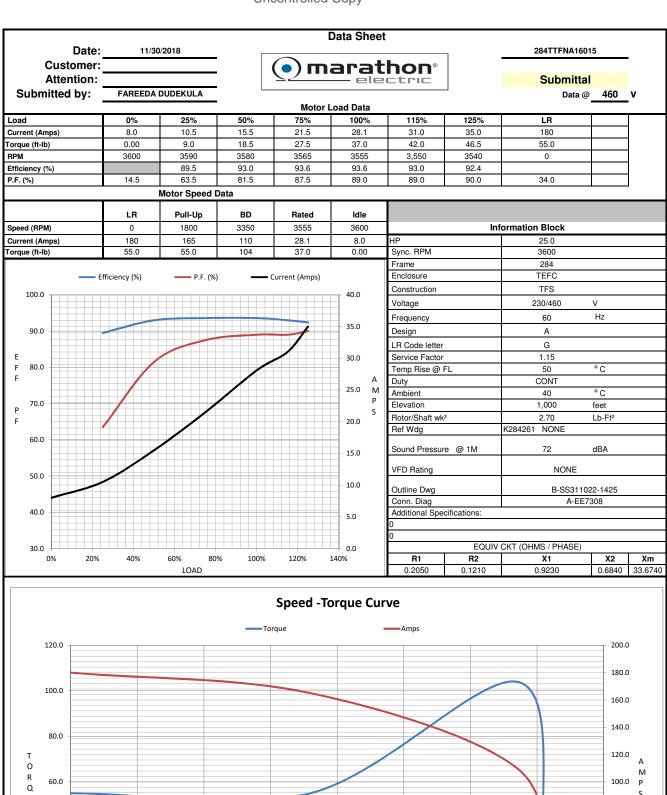
| | | | | | <u>•</u> r | mar | atho | ON® | | P.O. BOX 80 WAUSAU, W PH. 715-675 | I 54401-8003 | 460 | |
|---|------------------------|--------|-------------------------------|-----------|---|----------------------------------|---|------------------------------------|--------------------|---|------------------|----------------|------------|
| | | | | | CEI | RTIFICA | TION DAT | TA SHE | ET | | | | |
| CUSTOMER: ORDER #: | | | | | | | R | | MER P.O. #: | 284TTFNA16 | 015 | | |
| CONN. DIAGRAM: A-EE7308 OUTLINE: B-SS311022- WINDING: | | | NONE | 13 | | | | CAT #: IER PART #: MOUNTING: | F1/F2 CAPAE | 896B BLE | | <u> </u> | |
| SPEED: | | | | Т | YPICAL | МОТО | R PERFOI | RMANC | E DATA | | | | |
| НР | KW | | | | | KVA CC | DE | DESIGN | | | | | |
| 25 | 18.7 | 3600 | | 35 | 55 | 28 | 4HPV | TEFC | | TFN | G | В | |
| PH | HZ | VO | LTS | AM | PS | START TYPE | | D | UTY | INSL | S.F. | AMB | ELEV. |
| 3 | 60 | 230 | 0/460 | 56/2 | 6/28.1 ACROSS THE LINE | | S THE LINE | С | ONT | F | 1.15 | 40 | 3300 |
| | F.L. EFF 93.6 | | 3/4 LD EFF | | | 1/2 LD EFF | | | | ELECT. TYPE | | | |
| | F.L. PF | 89.0 | | 3/4 LD PF | 87.5 | | 1/2 LD PF | 81.5 | 93.0 | | SQ CAGE IN | RUN | |
| F.L. TORQUE | | LF | R AMPS @ | 460 V |) V L.R. TORQUE | | UE | B.D. TORQU | | UE F.L. RISE (°C) | | (°C) | |
| 37.0 LB-FT 180 | | 180 | | 55.0 | LB-FT | 149% | 104 | LB-FT | 281% | 50 | | | |
| | | | | | | | | | | | | | |
| | 3 FT. | | WER | ROTO | R WK ² LB-FT ² | | | | | | TS/HOUR | | R WGT |
| 72 | dBA | 81 | dBA | 2.70 | LD-FI- | 32 | LB-F1- | 20 | SEC. | | 2 | 440 | LB. |
| | | | | | *** SU | JPPLEME | NTAL INFO | RMATIO | N *** | | | | |
| | | - | RACKET | MOUNT | _ | TOR | SEVERE | | ARDOUS | DRIP | 00055110 | | |
| | BASE | | YPE NDARD | ROUND | | TATION DOWN | NO NO | NONE YES NONE | | PAINT BLUE (ENAMEL) | | | |
| 1 - | DAGL | STAIN | IDAND | HOUND | SHALL | DOWN | NO | IN | ONL | ILO | NONE | DLOL (L | .IVAIVILL) |
| BEA DE | BEARINGS DE ODE GREASE | | EASE | SHAFT | TYPE | SPE | CIAL DE | SPECIAL ODE | | SHAFT | MATERIAL | FRAME MATERIAL | |
| BALL 6311 | POLYBEX EM | | Н | P | N | NONE NONE | | 1045 HOT ROLLED (C-204) | | CAST IRON | | | |
| | | | | | | | THERMOTORS | | OONIZES: | | SPACE HEATERS | | |
| THERMOSTATS | | | ROTECTORS WDG RTD's NOT NONE | | | BRG RTD'S THERMISTORS NONE NONE | | FALSE | | | IERS NA | | |
| INC | NONE NOT | | 01 | INO | INCINE NONE | | INOINE | | FALSE | | INA | | |
| R1 (ohms/ph) | | R2 (of | nms/ph) | X1 (ohr | nms/ph) X2 (ohms/ph) | | Xm (ohms/ph) | | VIBRATION (in/sec) | | FLOAT | | |
| 0.205 0.121 | | 0.9 | 0.684 | | 33.674 0.150 | | 0 | DE | | | | | |
| | 1 | | | | | | | | | | | | |
| N O T | 0 | | | | | | INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE | | | | | | |
| E S * | | | | | | | ENCODER: NONE NONE NONE NONE NONE PPR | | | | | | |
| PREPARED BY: FAREEDA DUDEKULA DATE: 9/11/2018 | | | | | | BRAKE: NO FT-LB: | ONE | NONI NA | | | | | |

FORM: 3531 REV_4 2/27/06

VOLTAGE:
UL: V-INS, CONST UL REC

NONE

HZ:



60.0

40.0

20.0

0.0

0

500

1000

1500

2000

U

2500

3000

3500

100.0

80.0

60.0

40.0

20.0

0.0 4000