PRODUCT INFORMATION PACKET

Model No: 286THFNA19101 Catalog No: W550 15,900,TEFC,286T,3/60/460 Severe Duty



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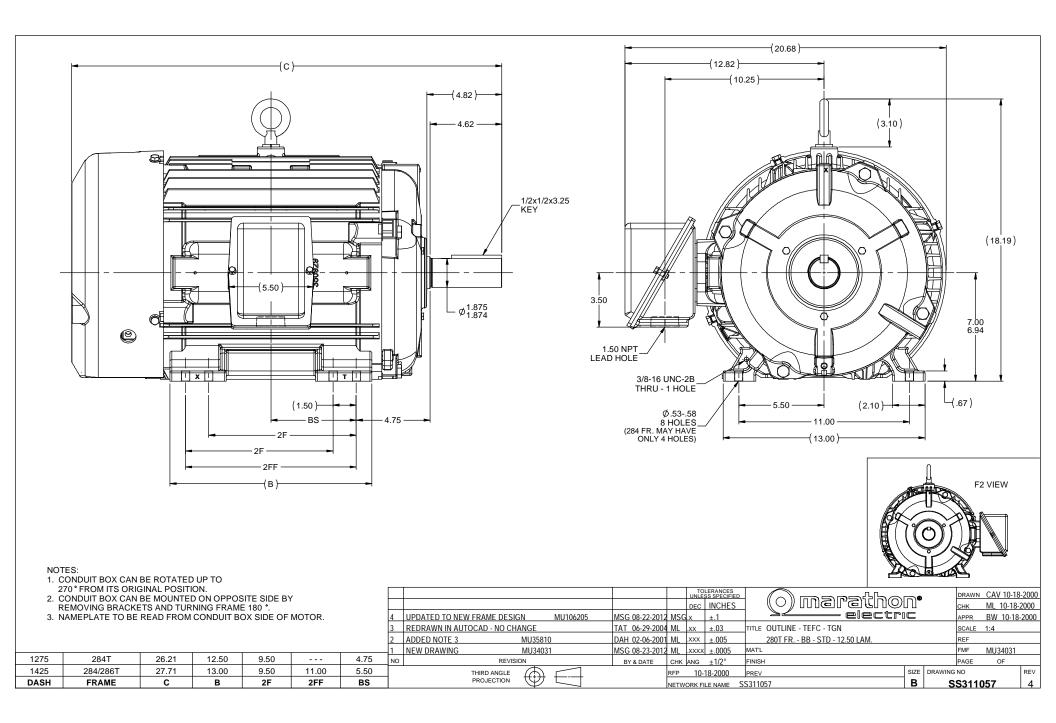
Nameplate Specifications

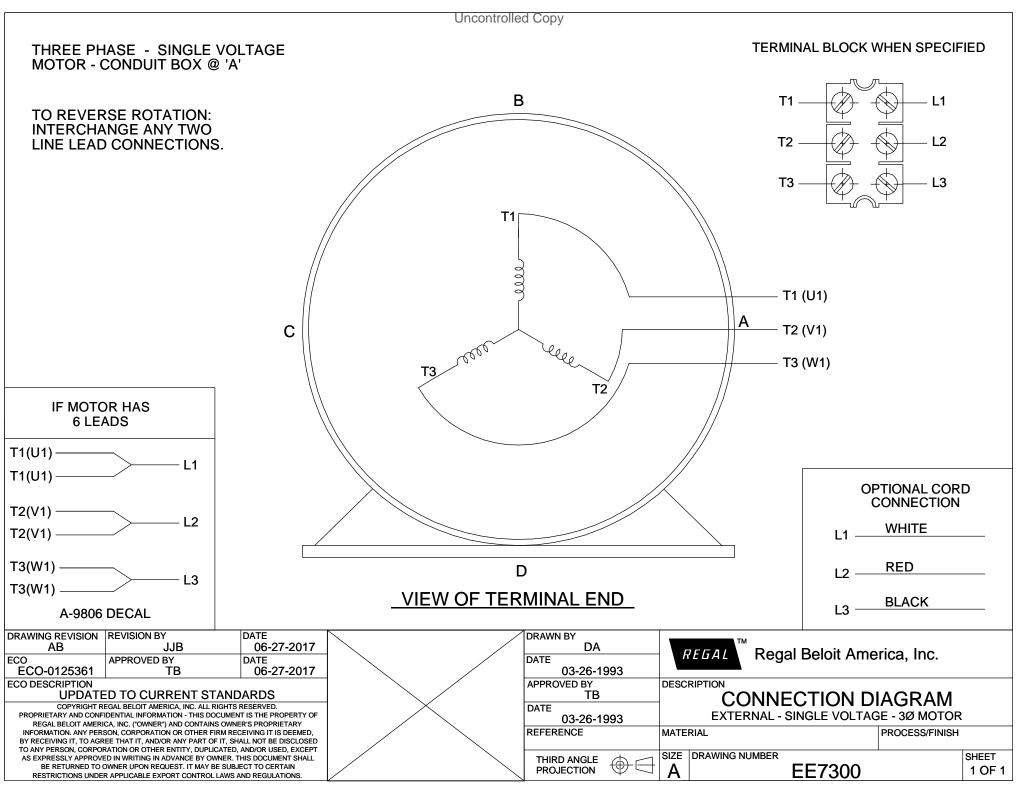
| Output HP | 15 Hp | Output KW | 11.2 kW |
|----------------------------|--------|------------------------|------------|
| Frequency | 60 Hz | Voltage | 460 V |
| Current | 22 A | Speed | 875 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 90.2 % | Duty | CONTINUOUS |
| Insulation Class | F | Design Code | В |
| KVA Code | F | Frame | 286T |
| Enclosure | TEFC | Overload Protector | NOT |
| Ambient Temperature | 40 °C | Drive End Bearing Size | 6311 |
| Opp Drive End Bearing Size | 6210 | UL | Recognized |
| CSA | Y | CE | Y |
| IP Code | 56 | | |
| | | | |

Technical Specifications

| Electrical Type | SQ CAGE INV RATED | Starting Method | LINE OR INVERTER | |
|-----------------------|-------------------|-----------------------|------------------|--|
| Poles | 8 | Rotation | REV | |
| Mounting | RIGID | Motor Orientation | HORIZONTAL | |
| Drive End Bearing | BALL | Opp Drive End Bearing | BALL | |
| Frame Material | CAST IRON | Shaft Type | т | |
| Overall Length | 27.71 in | Frame Length | 14.25 in | |
| Shaft Diameter | 1.88 in | Shaft Extension | 4.82 in | |
| Assembly/Box Mounting | F1/F2 CAPABLE | | | |
| Outline Drawing | B-SS311057-1425 | Connection Diagram | A-EE7300 | |
| | | | | |

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CERTIFICATION DATA SHEET

| Model#: | 286THFNA19101 BB | WINDING#: | K286839 NONE 7 |
|----------------|------------------|-----------|----------------|
| CONN. DIAGRAM: | A-EE7300 | ASSEMBLY: | F1/F2 CAPABLE |
| OUTLINE: | B-SS311057-1425 | | |

TYPICAL MOTOR PERFORMANCE DATA

| HP | | ĸw | | SYNC. | RPM | F.L | . RPM | FRAM | E | ENG | CLOSUR | E K\ | A CO | DE | DESIGN |
|--|----------|------|--------|----------------------|------------|-----------|------------------|------------|------|-------------------|--------|-------------|-------------|------|---------------------|
| 15 | | 11.2 | | 900 | | | 875 | 286T | | | TEFC | | F | | В |
| РН | Hz | z | VOL | TS | FL AMPS | ST | ART TYPE | DUTY | | INSL | | S.F | A | MB°C | ELEVATION |
| 3 | 60 | 0 | 46 | 0 | 22 | | INE OR | CONTINUC | DU | F3 | | 1.15 | | 40 | 3300 |
| | | | | | | IN | VERTER | S | | | | | | | |
| FULL LOAD EFF: 90.2 3/4 LOAD EFF: 90.2 1/2 LOA | | | OAD E | D EFF: 88.5 GTD. EFF | | | El | ELEC. TYPE | | NO LOAD AMPS | | | | | |
| FULL LOAD | PF: 70.5 | 3/4 | 4 LOAD | PF: 62.5 | 1/2 | LOAD | LOAD PF: 50 88.5 | | | SQ CAGE INV RATED | | TED | 12.5 | | |
| F.L. TO | RQUE | | LOC | KED ROTO | OR AMPS | | L.R. TORQUE | | B. | B.D. TORQUE | |] | F.L. RISE°C | | |
| 90 LE | B-FT | | | 105 | | | 120 LB-FT 133 | | 20 | 200 LB-FT 222 | | | 60 | | |
| SOUND PRES @ 3 FT. | SURE | SOUN | D POWE | RR | OTOR WI | K^2 | MAX. | WK^2 | SAFE | E STALL | TIME | STAF /HO | | A | PPROX. MOTOR WGT |
| 55 dBA | | 65 | 5 dBA | | 4.8 LB-FT/ | <u>^2</u> | - LB- | FT^2 | | 20 SEC. | | - | | | 550 LBS. |

*** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|--------------------|---------------------|---------------|-------------|------------------------|-----------------------|---------------|---------|--------------|
| STANDARD | STANDARD | RIGID | HORIZONTAL | PREMIUM SEVERE DUTY | DIVISION 2 T2B | FALSE | NONE | BLUE (EPOXY) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT | FRAME |
|----------|------|------------|------------|------------|-------------|----------------|-----------|
| DE | OPE | | | | | MATERIAL | MATERIAL |
| BALL | BALL | POLYREX EM | т | NONE | NONE | 1045 HOT | CAST IRON |
| 6311 | 6210 | | | | | ROLLED (C-204) | |

| | THERMO-PF | OTECTORS | THERMISTORS | CONTROL | SPACE /n HEATERS | |
|-------------|------------|----------|-------------|---------|------------------|------------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

If Inverter equals NONE, contact factory for further information

| mornadon |
|---|
| INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: NONE |
| ENCODER: NONE NONE NONE NONE NONE PPR |
| BRAKE: NONE NONE NONE P/N NONE |
| NONE NONE NONE FT-LB NONE V NONE Hz |

DATE: 06/21/2017 09:37:56 AM FORM 3531 REV.3 02/07/99 ** Subject to change without notice.

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| Date: | 29-0 | 6-2017 | _ | | Data Sheet | | - | 286THFN | A19101 | |
|--|---------------|-------------|-------------|----------------|-------------|--------------------------|-------------|-------------------|--------------------------------------|------------------|
| Customer: | | | | • m | arat | hon | | Cubm | ittal | |
| Attention: | | | | | — eie | CTRIC | | Subm | | |
| Submitted by: | FAREEDA | DUDEKULA | | Motor Load | l Data | | | Data (| ₽ 460 | v |
| .oad | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | | |
| Current (Amps) | 12.5 | 13.5 | 16.0 | 19.0 | 22.0 | 26.0 | 28.0 | 105 | | |
| orque (ft-lb) | 0.00 | 22.0 | 44.5 | 67.0 | 90.0 | 104 | 114 | 120 | | |
| PM fficiency (%) | 900 | 895 82.5 | 890 88.5 | 885 90.2 | 875 90.2 | 870 89.5 | 865 88.0 | 0 | - | |
| P.F. (%) | 5.5 | 31.0 | 50.0 | 62.5 | 70.5 | 71.0 | 72.0 | 30.0 | | |
| | | Motor Speed | Data | - | | | | | | |
| | LR | Pull-Up | BD | Rated | Idle | | | | | |
| peed (RPM) | 0 | 450 | 810 | 875 | 900 | | Inform | ation Block | | |
| urrent (Amps) | 105 | 95.0 | 65.0 | 22.0 | 12.5 | HP | | 15.0 | | |
| orque (ft-lb) | 120 | 105 | 200 | 90.0 | 0.00 | Sync. RPM | | 900 | | |
| _ | | () | | | | Frame | | 286 | | |
| Ef | fficiency (%) | — P.F. (%) | _ | Current (Amps) | | Enclosure | | TEFC | | |
| 100.0 | | | | | 30.0 | Construction | | TFN 460 | v | |
| | | | | | - | Voltage | | 460 60 | Hz | |
| 90.0 | | | | | | Frequency | | 60 B | 112 | |
| 50.0 | | | | \square | 25.0 | Design LR Code letter | | F | | |
| E | | | / | ۶ | H | Service Factor | | 1.15 | | |
| F 80.0 | | | | | | Temp Rise @ I | -L | 60 | °C | |
| F | | | - | | 20.0 A | Duty | | CONT | | |
| 70.0 | | | | | M P | Ambient | | 40 | °C | |
| P 70.0 | | / | | | S | Elevation | | 1,000 | feet | |
| F | | | | | 15.0 | Rotor/Shaft wk | | 4.8 K286839 NO | Lb-Ft ² | |
| 60.0 | | | | | _ | | | | | |
| | | | | | | Sound Pressur | e @1M | 55 | dBA | |
| 50.0 | | / | | | 10.0 | VFD Rating | | CONSTA | NT 20:1 | |
| 50.0 | | | | | | Outline Dwg | | B-SS | 311057-142 | 5 |
| | | | | | 5.0 | Conn. Diag | | | A-EE7300 | - |
| 40.0 | | | | | 5.0 | Additional Spec | ifications: | | | |
| | | | | | | 0 365THFS8036 | | | | |
| 30.0 | | | | | 0.0 | 3051 HF 36036 | EQUIV CKT | (OHMS / PHA | SE) | |
| 0% 20% | 40% | 60% 80 | % 100% | 120% | 140% | R1 | R2 | X1 | X2 | Хm |
| | | LOAD | | | | 0.3670 | 0.3520 | 1.8940 | 2.6790 | 21.280 |
| | | | Sr | | ue curve | | | | | |
| 250.0 | | | Torque | - | ue Curve | Amps | | | 120. | |
| | | | | - | | | | | | |
| | | | | - | | | | | - 100. | |
| 200.0 | | | | - | | | | | | |
| 200.0 | | | | - | | | | | - 100. | |
| 200.0 | | | | - | | | | | 80.0 | A M |
| 200.0 T 150.0 R | | | | - | | | | | - 100. | A M P |
| 200.0 T 150.0 R Q U | | | | - | | | | | 80.0 | A M |
| 200.0 T 150.0 O R | | | | - | | | | | - 100. - 80.0 - 60.0 | A M P S |
| 200.0 T 150.0 R Q U | | | | - | | | | | 80.0 | A M P S |
| 200.0 T 150.0 R Q U | | | | - | | | | | - 100. - 80.0 - 60.0 | A M P S |
| 200.0 T 150.0 R Q U | | | | - | | | | | - 100. - 80.0 - 60.0 | A M P S |
| 200.0 T 150.0 O R Q U E 100.0 | | | | - | | | | | - 100. - 80.0 - 60.0 | A M P S |
| 200.0 T 150.0 O R Q U E 100.0 | | | | - | | | | | 100. 80.0 60.0 40.0 | A M P S |
| 200.0 T 150.0 O R Q U E 100.0 | | | | - | | | | | 100. 80.0 60.0 40.0 | A M P S |
| 200.0 T 150.0 O R Q U E 100.0 50.0 0.0 | | | Torque | - | | Amps | | | 100. 80.0 60.0 40.0 | A M P S |
| 200.0 T 150.0 O R Q U E 100.0 50.0 | 100 | 200 3 | | e | | | 800 | 900 | 100. 80.0 60.0 40.0 20.0 | A M P S |