# **PRODUCT INFORMATION PACKET**

Model No: 444THFS9101 Catalog No: W597 Severe Duty Motors, TEFC, 75 HP, 3 Ph, 60 Hz, 460 V, 890 RPM, 444T Frame



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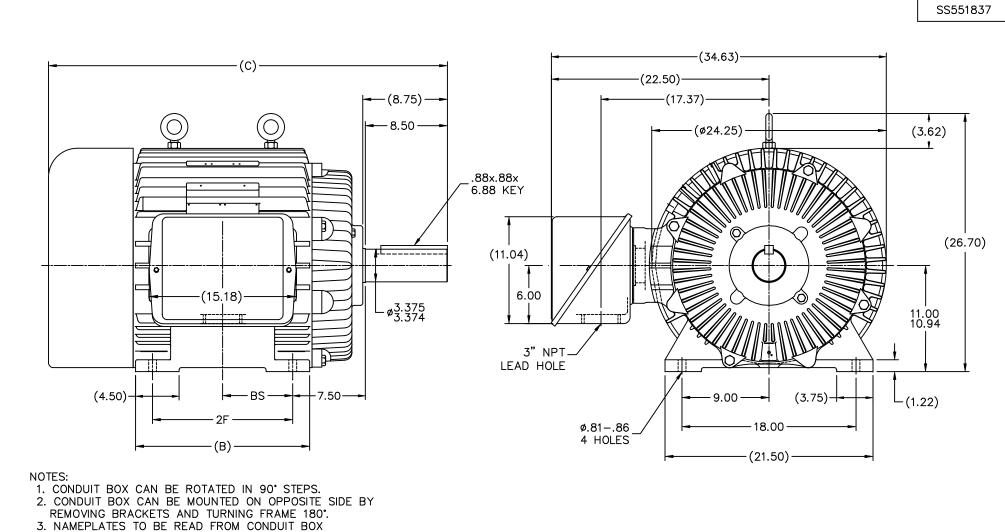
## Nameplate Specifications

| Output HP              | 75 Hp         | Output KW                  | 56.0 kW                     |
|------------------------|---------------|----------------------------|-----------------------------|
| Frequency              | 60 Hz         | Voltage                    | 460 V                       |
| Current                | 100.0 A       | Speed                      | 890 rpm                     |
| Service Factor         | 1.15          | Phase                      | 3                           |
| Efficiency             | 93.6 %        | Power Factor               | 75.5                        |
| Duty                   | Continuous    | Insulation Class           | F                           |
| Design Code            | В             | KVA Code                   | G                           |
| Frame                  | 444T          | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6318          | Opp Drive End Bearing Size | 6316                        |
| UL                     | Recognized    | CSA                        | Y                           |
| CE                     | Y             | IP Code                    | 56                          |
| Number of Speeds       | 1             |                            |                             |

### **Technical Specifications**

| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method       | Line Or Inverter |
|-----------------------|------------------------------|-----------------------|------------------|
| Poles                 | 8                            | Rotation              | Reversible       |
| Resistance Main       | .1 Ohms                      | Mounting              | Rigid Base       |
| Motor Orientation     | Horizontal                   | Drive End Bearing     | Ball             |
| Opp Drive End Bearing | Ball                         | Frame Material        | Cast Iron        |
| Shaft Type            | т                            | Overall Length        | 41.27 in         |
| Frame Length          | 18.50 in                     | Shaft Diameter        | 3.375 in         |
| Shaft Extension       | 8.5 in                       | Assembly/Box Mounting | F1/F2 Capable    |
| Connection Drawing    | A-EE7300                     | Outline Drawing       | B-SS551837-1850  |

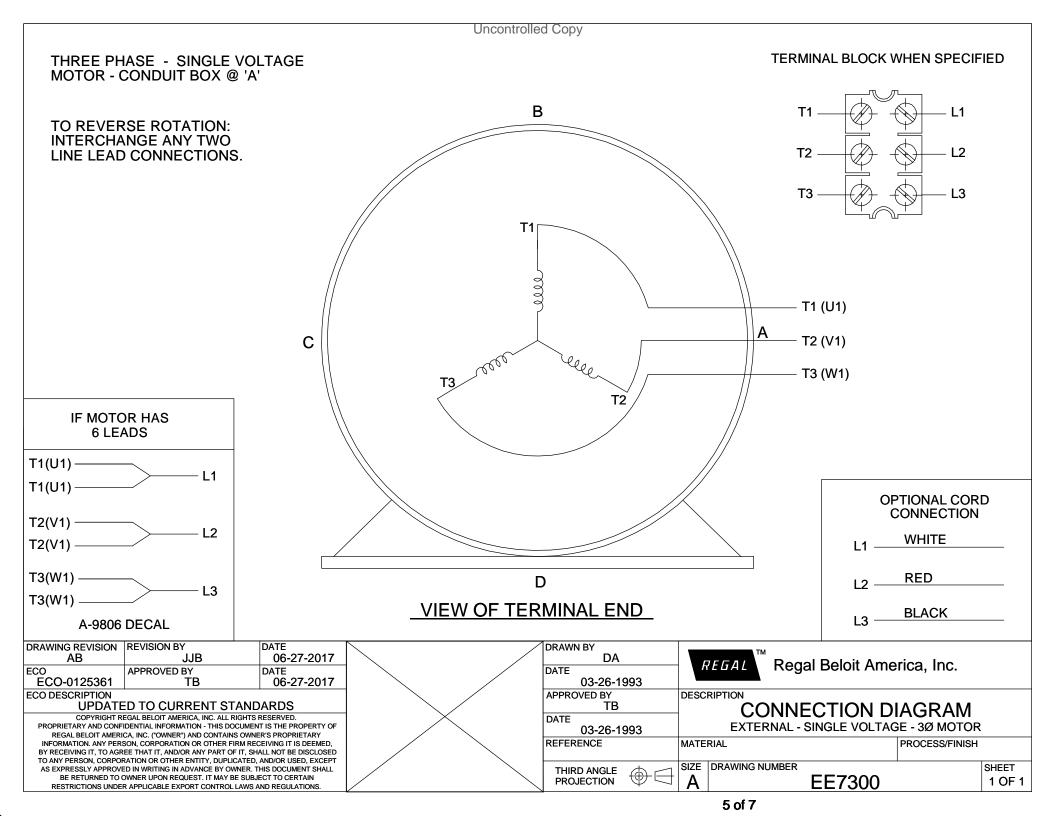
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SIDE OF MOTOR.

|      |       |       |       |       |      |     |   |                                       |      | UNLES | ERANCES<br>S SPECIFIEI |  | DRAWN  | RJW 04-13-2006 |
|------|-------|-------|-------|-------|------|-----|---|---------------------------------------|------|-------|------------------------|--|--------|----------------|
|      |       |       |       |       |      |     |   |                                       |      | DEC.  | INCHES                 |  |        | ML 04-17-2006  |
|      |       |       |       |       |      |     |   |                                       |      | .x    | ±.1                    | LILECTRIC                              | APPD   | TB 04-17-2006  |
|      |       |       |       |       |      |     |   |                                       |      | .xx   | ±.03                   | TILE OUTLINE                           | SCALE  | 5=32           |
|      |       |       |       |       |      |     |   |                                       |      | .xxx  | ±.005                  | 440T FR. – TEFC – TFS – OVERSIZE C'BOX | REF    |                |
| DASH | FRAME | B     | С     | 2F    | BS   |     |   |                                       |      | .xxxx | ±.0005                 | MAT'L.                                 | FMF    | CN40156        |
| 1850 | 444T  | 18.00 | 41.25 | 14.50 | 7.25 | NO. | REVISION  | BY & DATE                             | СНК  | ANG   | ±7'30"                 | FINISH                                 | PREV   |                |
|      |       |       |       |       |      |     | SIGN AND DETAIL IS OUR PROPERTY AND MUST I  |                                       | RFP  | 04    | -17-2006               | CAD FILE SS551837 SIZE DRAWING N       | O. PAG | E OF REV.      |
| 2050 | 445T  | 20.00 | 43.25 | 16.50 | 8.25 |     | H OUR WORK ALL RIGHTS OF DESIGN AND INVEN<br>TRONICALLY GENERATED DOCUMENT - DO NOT S | tion are reserved<br>Scale this print | DIST | WA    |                        | B SS                                   | 5518   | 37             |

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#### **CERTIFICATION DATA SHEET**

| Model#:        | 444THFS9101 AP  | WINDING#: | T444821 NONE 2 |
|----------------|-----------------|-----------|----------------|
| CONN. DIAGRAM: | A-EE7300        | ASSEMBLY: | F1/F2 CAPABLE  |
| OUTLINE:       | B-SS551837-1850 |           |                |

#### TYPICAL MOTOR PERFORMANCE DATA

| НР                     |                                | ĸw   | 5          | SYNC. R | PM                 | F.L | RPM      | FRAM              | ИE                | EN         | ENCLOSURE    |                  | KVA CODE        |          | E         | DESIGN             |    |      |
|------------------------|--------------------------------|------|------------|---------|--------------------|-----|----------|-------------------|-------------------|------------|--------------|------------------|-----------------|----------|-----------|--------------------|----|------|
| 75                     |                                | 56   |            | 900     |                    |     | 890      | 444               | Т                 |            | TEFC         |                  | G               |          |           | В                  |    |      |
| РН                     | Hz                             | 2    | VOLTS      | FI      | AMPS               | ST  | ART TYPE | DUTY              |                   | INSL       |              | S.               | F               | AN       | MB°C      | ELEVATION          |    |      |
| 3                      | 60                             | )    | 460        |         | 100                |     | INE OR   | CONTINU<br>S      | OU                | F1         |              | 1.15             |                 | 1.15     |           |                    | 40 | 3300 |
| FULL LOAD E            | FULL LOAD EFF: 93.6 3/4 LOAD E |      | LOAD EFF   | : 94.1  | 1/2 LOAD EFF: 94.1 |     | GTD. EFF |                   | E                 | ELEC. TYPE |              |                  | NO L            | OAD AMPS |           |                    |    |      |
| FULL LOAD F            | PF: 75.5                       | 3/4  | 4 LOAD PF: | 71.5    | 1/2 L0             | DAD | PF: 62   |                   | 93                |            | SQ C         | Q CAGE INV RATED |                 | D        |           | 44                 |    |      |
| F.L. TO                | RQUE                           |      | LOCKED     | ROTOR   |                    |     | L.R. TC  | DRQUE B.D. TORQUE |                   |            |              | F.L. RISE°C      |                 |          |           |                    |    |      |
| 443 L                  | B-FT                           |      |            | 500     |                    |     | 725 LB-  | -FT 164 900 LB-F  |                   | 0 LB-F     | _B-FT 203    |                  |                 | 70       |           |                    |    |      |
| SOUND PRESS<br>@ 3 FT. | SURE                           | SOUN | D POWER    | RO      | TOR WKA            | 2   | MAX.     | WK^2              | IK^2 SAFE STALL T |            | E STALL TIME |                  | STARTS<br>/HOUR | 3        | API       | PROX. MOTOR<br>WGT |    |      |
| 68 dBA                 |                                | 78   | 8 dBA      | 72      | LB-FT^2            |     | - LB-I   | FT^2              | 2 20 SEC.         |            | -            |                  |                 |          | 1750 LBS. |                    |    |      |

#### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

| DE BRACKET<br>TYPE | ODE BRACKET<br>TYPE | MOUNT<br>TYPE | ORIENTATION | SEVERE<br>DUTY         | HAZARDOUS<br>LOCATION | DRIP<br>COVER | SCREENS | PAINT        |
|--------------------|---------------------|---------------|-------------|------------------------|-----------------------|---------------|---------|--------------|
| STANDARD           | STANDARD            | RIGID         | HORIZONTAL  | PREMIUM<br>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 |
| 6318     | 6316 |            |            |            |             | 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                   |
|-----|-------------------------------|
| *   | INVERTER TORQUE: CONSTANT 2:1 |
| N   | INV. HP SPEED RANGE: NONE     |
| 0   | ENCODER: NONE                 |
| I   | NONE NONE                     |
| E   | NONE NONE PPR                 |
| S * | BRAKE: NONE NONE              |
|     | NONE P/N NONE                 |
|     | NONE NONE                     |
|     | NONE FT-LB NONE V NONE Hz     |

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