## **PRODUCT INFORMATION PACKET**

Model No: 445THFN9106 Catalog No: W603 100 HP Severe Duty Motor, 3 phase, 900 RPM, 460 V, 445T Frame, TEFC Severe Duty Motors



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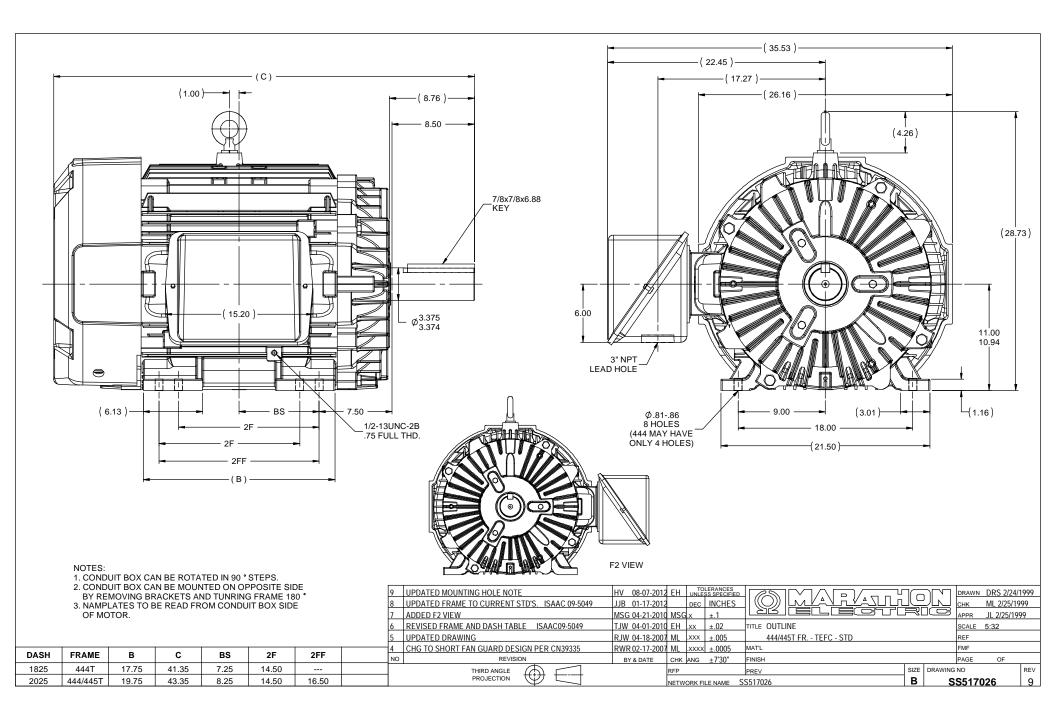
## Nameplate Specifications

| Output HP              | 100 Hp     | Output KW                  | 75.0 kW                     |
|------------------------|------------|----------------------------|-----------------------------|
| Frequency              | 60 Hz      | Voltage                    | 460 V                       |
| Current                | 142.0 A    | Speed                      | 890 rpm                     |
| Service Factor         | 1.15       | Phase                      | 3                           |
| Efficiency             | 94.1 %     | Power Factor               | 70                          |
| Duty                   | Continuous | Insulation Class           | F                           |
| Design Code            | В          | KVA Code                   | G                           |
| Frame                  | 445T       | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No         | 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       | .0325 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        | 43.35 in         |
| Frame Length          | 20.25 in                     | Shaft Diameter        | 3.375 in         |
| Shaft Extension       | 8.76 in                      | Assembly/Box Mounting | F1/F2 Capable    |
| Inverter Load         | CONSTANT 2:1                 |                       |                  |
| Connection Drawing    | A-EE7300                     | Outline Drawing       | B-SS517026-2025  |

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#### **CERTIFICATION DATA SHEET**

| Model#:        | 445THFN9106 BD  | WINDING#: | T445833 NONE 8 |
|----------------|-----------------|-----------|----------------|
| CONN. DIAGRAM: | A-EE7300        | ASSEMBLY: | F1/F2 CAPABLE  |
| OUTLINE:       | B-SS517026-2025 |           |                |

#### TYPICAL MOTOR PERFORMANCE DATA

| НР                    |                                   | ĸw   |            | SYNC. R                | РМ        | F.L      | RPM                  | FRAM               | ΛE         | EN                       | CLOSU | RE           | KVA                | COL       | DE   | DESIGN    |    |      |
|-----------------------|-----------------------------------|------|------------|------------------------|-----------|----------|----------------------|--------------------|------------|--------------------------|-------|--------------|--------------------|-----------|------|-----------|----|------|
| 100                   |                                   | 75   |            | 900                    | 900       |          | 890                  | 445TT              |            | TEFC                     |       |              | G                  |           | В    |           |    |      |
| РН                    | H                                 | z    | VOLT       | S F                    | L AMPS    | ST       | ART TYPE             | DUTY               |            | INSL                     |       | S.           | F                  | Α         | MB°C | ELEVATION |    |      |
| 3                     | 60                                | 0    | 460        |                        | 142       |          | INE OR<br>VERTER     | CONTINU<br>S       | OU         | F1                       | F1 1  |              | 1.15               |           | 1.15 |           | 40 | 3300 |
| FULL LOAD E           | FULL LOAD EFF: 94.1 3/4 LOAD EFF: |      | FF: 94.1   | 4.1 1/2 LOAD EFF: 93.6 |           | GTD. EFF |                      | E                  | ELEC. TYPE |                          | ]     | NO LOAD AMPS |                    |           |      |           |    |      |
| FULL LOAD             | PF: 70                            | 3    | 3/4 LOAD I | PF: 67                 | 1/2 L0    | DAD      | PF: 57               | 93.6 SQ CA         |            | CAGE INV RATED           |       |              | 64.5               |           |      |           |    |      |
| F.L. TO               | DRQUE                             |      | LOCKE      | ED ROTOF               | RAMPS     |          | L.R. TORQUE B.D. TOP |                    | D. TOR     | QUE                      |       |              | F.L.               | RISE°C    |      |           |    |      |
| 590 L                 | B-FT                              |      |            | 725                    |           |          | 745 LB-              | -FT 126 1400 LB-FT |            | 1400 LB-FT 237           |       |              | 65                 |           |      |           |    |      |
| SOUND PRES<br>@ 3 FT. |                                   | SOUN |            | RO                     | TOR WK*   | 2        | MAX.                 | WK^2 SAFE STALL 1  |            | ALL TIME STARTS<br>/HOUR |       | AP           | PROX. MOTOR<br>WGT |           |      |           |    |      |
| 72 dBA                |                                   | 8    | 2 dBA      | 80                     | ) LB-FT^2 |          | - LB-I               | FT^2 20 SEC.       |            | -                        |       |              |                    | 2350 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 |
|        | INV. HP SPEED RANGE: NONE     |
| 0      | ENCODER: NONE                 |
| 1      | NONE NONE                     |
|        | NONE NONE PPR                 |
| S<br>* | BRAKE: NONE NONE              |
|        | NONE P/N NONE                 |
|        | NONE NONE                     |
|        | NONE FT-LB NONE V NONE Hz     |

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