# **PRODUCT INFORMATION PACKET**

Model No: 324TTFS16066 Catalog No: E209-P 40 HP, General Purpose Motors, 3 phase, 1800 RPM, 230/460 V, 324T Frame, TEFC General Purpose Motors



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marathon®



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# marathon<sup>®</sup>

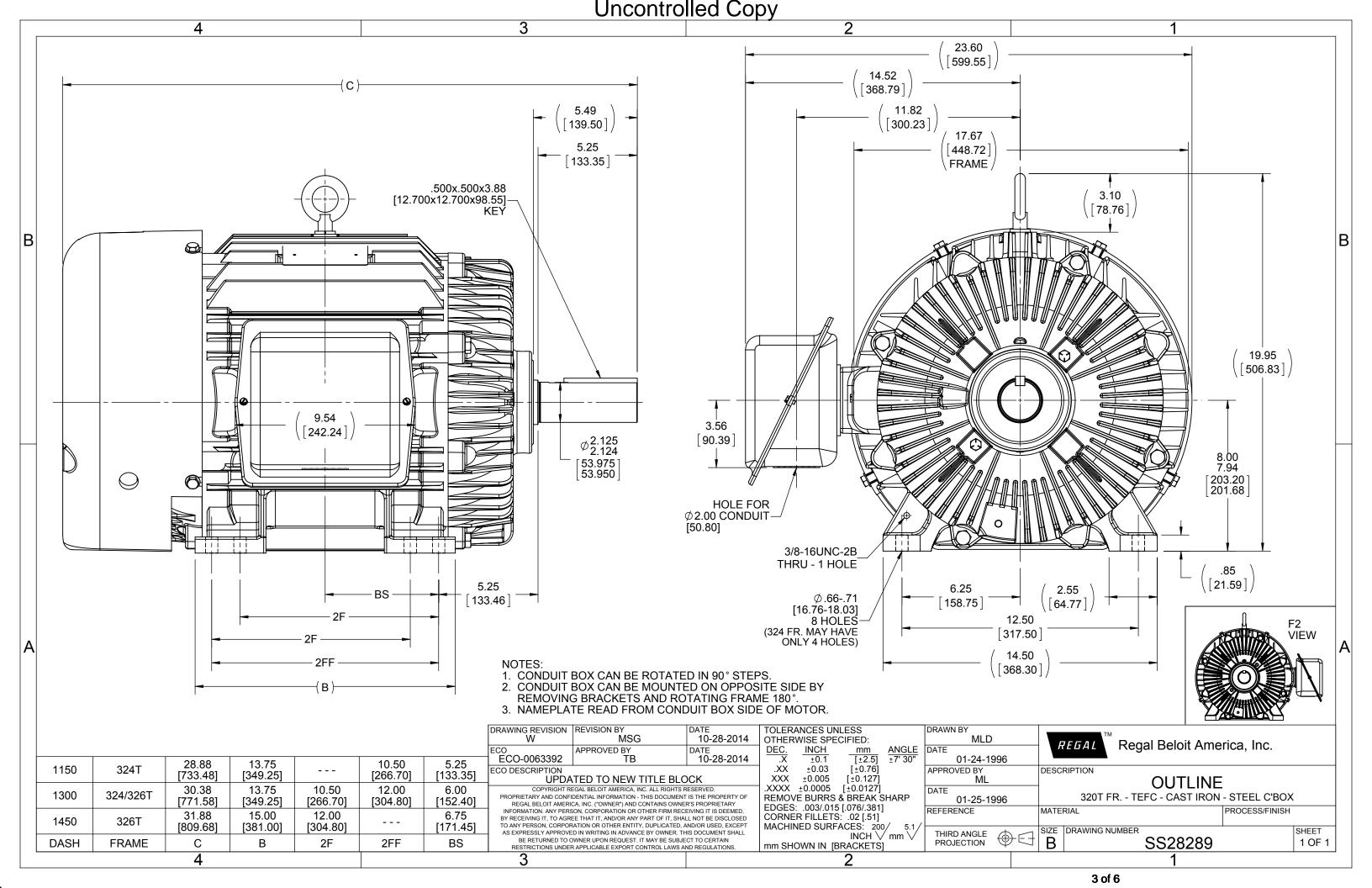
### Nameplate Specifications

| Output HP              | 40 Hp       | Output KW                  | 30.0 kW                     |
|------------------------|-------------|----------------------------|-----------------------------|
| Frequency              | 60 Hz       | Voltage                    | 230/460 V                   |
| Current                | 95.0/47.5 A | Speed                      | 1780 rpm                    |
| Service Factor         | 1.15        | Phase                      | 3                           |
| Efficiency             | 94.1 %      | Power Factor               | 83                          |
| Duty                   | Continuous  | Insulation Class           | F                           |
| Design Code            | В           | KVA Code                   | G                           |
| Frame                  | 324T        | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No          | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6312        | Opp Drive End Bearing Size | 6311                        |
| UL                     | Recognized  | CSA                        | Y                           |
| CE                     | Y           | IP Code                    | 43                          |
| Number of Speeds       | 1           |                            |                             |

## **Technical Specifications**

| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method       | Line Or Inverter |
|-----------------------|------------------------------|-----------------------|------------------|
| Poles                 | 4                            | Rotation              | Reversible       |
| Resistance Main       | .135 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        | 30.38 in         |
| Frame Length          | 13.00 in                     | Shaft Diameter        | 2.125 in         |
| Shaft Extension       | 5.49 in                      | Assembly/Box Mounting | F1/F2 Capable    |
| Connection Drawing    | A-EE7308                     | Outline Drawing       | B-SS28289-1300   |

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#### **CERTIFICATION DATA SHEET**

| Model#:        | 324TTFS16066 AN | WINDING#: | K3244127 NONE 1 |
|----------------|-----------------|-----------|-----------------|
| CONN. DIAGRAM: | A-EE7308        | ASSEMBLY: | F1/F2 CAPABLE   |
| OUTLINE:       | B-SS28289-1300  |           |                 |

#### TYPICAL MOTOR PERFORMANCE DATA

| НР                              |                                | ĸw        |                         | SYNC                 | RPM         | F.L | RPM         | FRAM              | 1E     | EN            | CLOSU   | RE  | KVA             | COD      | E        | DESIGN            |
|---------------------------------|--------------------------------|-----------|-------------------------|----------------------|-------------|-----|-------------|-------------------|--------|---------------|---------|-----|-----------------|----------|----------|-------------------|
| 40                              |                                | 30        | 30                      |                      | 1800        |     | 1780 324T   |                   |        | TEFC          |         |     | G               |          | В        |                   |
| РН                              | н                              | Iz        | VOL                     | тѕ                   | FL AMPS     | ST  | ART TYPE    | DUTY              | ]      | INSL          |         | S.  | F               | A        | MB°C     | ELEVATION         |
| 3                               | 6                              | 60        | 230/4                   | 60                   | 95/47.5     |     | LINE OR     | CONTINU<br>S      | JU     | F3            |         | 1.1 | 5               |          | 40       | 3300              |
| FULL LOAD EFF: 94.1 3/4 LOAD EF |                                | EFF: 94.5 | 94.5 1/2 LOAD EFF: 94.5 |                      | GTD. EFF    |     |             | ELEC. TYPE        |        | NO LOAD AMPS  |         |     |                 |          |          |                   |
| FULL LOAD                       | ULL LOAD PF: 83 3/4 LOAD PF: 1 |           | PF: 79.5                | 79.5 1/2 LOAD PF: 71 |             |     | 93.6        |                   | SQ C   | AGE II        | NV RATE | D   | 3               | 5 / 17.5 |          |                   |
| F.L. TC                         | FORQUE LOCKED ROTOR AMPS L.R   |           | L.R. TC                 | ORQUE B.D. TORQUE    |             |     | F.L. RISE°C |                   | RISE°C |               |         |     |                 |          |          |                   |
| 118 L                           | B-FT                           |           |                         | 580 / 2              | 90          |     | 218 LB-     | -FT 185 305 LB-FT |        | 305 LB-FT 258 |         |     | 65              |          | 65       |                   |
| SOUND PRES<br>@ 3 FT.           |                                | SOUN      | ID POWE                 | R                    |             | ^2  | MAX.        | WK^2              | SAI    | FE STALL      | TIME    |     | STARTS<br>/HOUR |          | APF      | ROX. MOTOR<br>WGT |
| 65 dBA                          |                                | 7         | 5 dBA                   |                      | 8.8 LB-FT^2 | 2   | 275 LB      | 3-FT^2 25 SEC.    |        | 25 SEC. 2     |         | 2   |                 |          | 700 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  | FALSE          | NONE                  | FALSE         | NONE    | BLUE<br>(ENAMEL) |

| 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 |
| 6312     | 6311 | ]          |            |            |             | ROLLED (C-204) |           |

|             | THERMO-PF  | ROTECTORS | 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 20:1        |
| Ν | INV. HP SPEED RANGE: 1.5 X BASE SPEED |
| т | ENCODER: NONE                         |
| E | NONE NONE NONE NONE PPR               |
|   | BRAKE: NONE NONE                      |
|   | NONE P/N NONE                         |
|   | NONE NONE                             |
|   | - FT-LB NONE V NONE Hz                |

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