

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 182TTFCD6076  
Catalog No: GT1005A  
1 1/2, 1200, TEFC, 182T, 3/60/230/460  
Totally Enclosed Fan Cooled (TEFC)



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**REGAL**

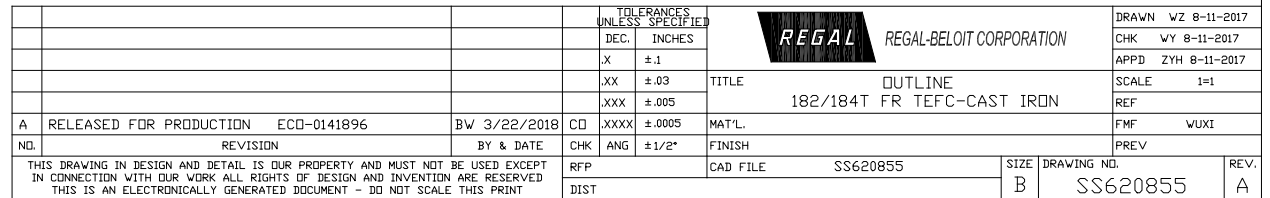
## Nameplate Specifications

|                            |                             |                        |            |
|----------------------------|-----------------------------|------------------------|------------|
| Output HP                  | 1.50 Hp                     | Output KW              | 1.1 kW     |
| Frequency                  | 60 Hz                       | Voltage                | 230/460 V  |
| Current                    | 4.6/2.3 A                   | Speed                  | 1175 rpm   |
| Service Factor             | 1.15                        | Phase                  | 3          |
| Efficiency                 | 87.5 %                      | Duty                   | Continuous |
| Insulation Class           | F                           | Design Code            | B          |
| KVA Code                   | K                           | Frame                  | 182T       |
| Enclosure                  | Totally Enclosed Fan Cooled | Overload Protector     | No         |
| Ambient Temperature        | 40 °C                       | Drive End Bearing Size | 6206       |
| Opp Drive End Bearing Size | 6205                        | UL                     | Listed     |
| CSA                        | Y                           | CE                     | Y          |
| IP Code                    | 55                          |                        |            |

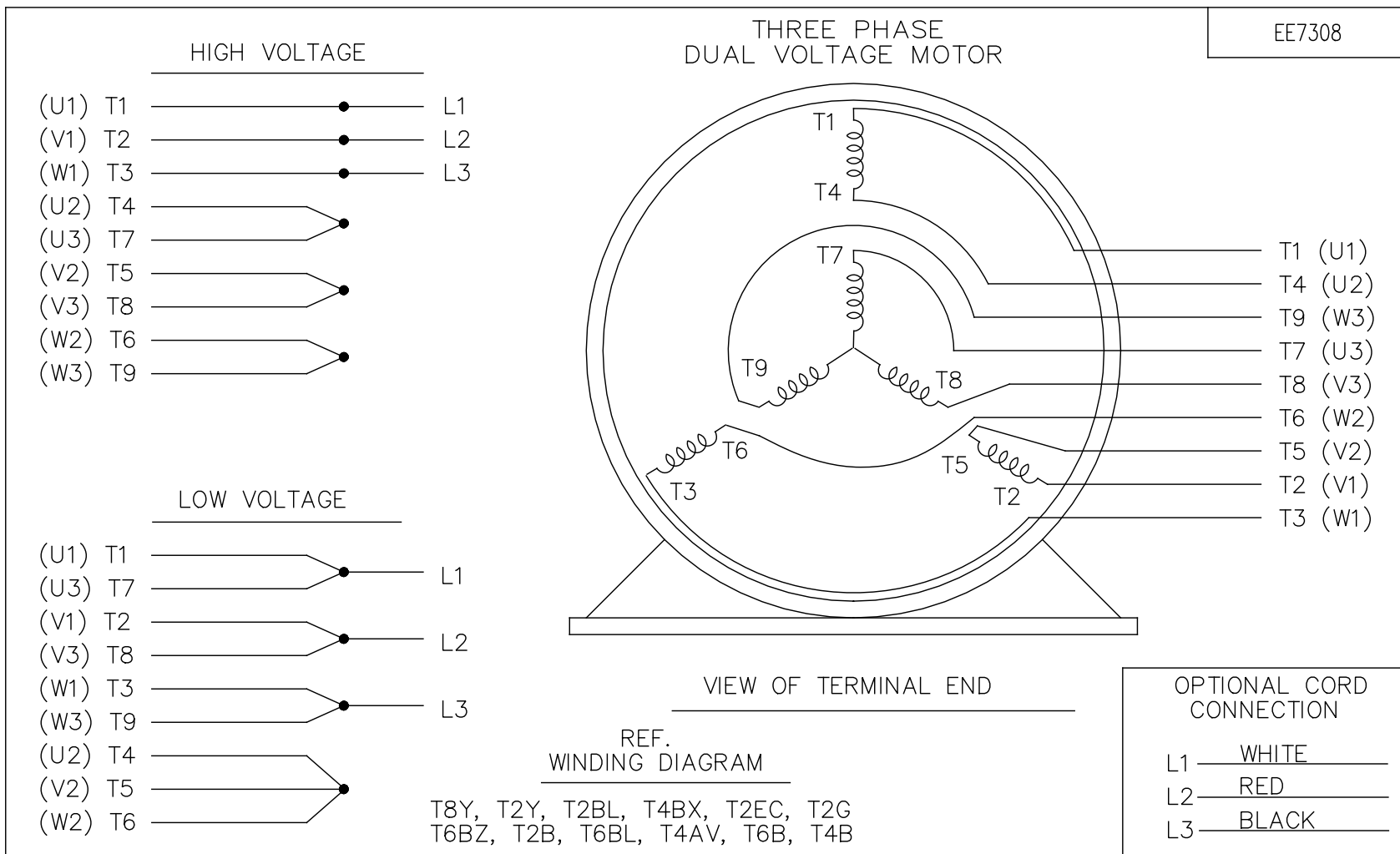
## Technical Specifications

|                   |                              |                       |                  |
|-------------------|------------------------------|-----------------------|------------------|
| Electrical Type   | Squirrel Cage Inverter Rated | Starting Method       | Line Or Inverter |
| Poles             | 6                            | Rotation              | Reversible       |
| Mounting          | Rigid base                   | Motor Orientation     | Horizontal       |
| Drive End Bearing | Ball                         | Opp Drive End Bearing | Ball             |
| Frame Material    | Cast Iron                    | Shaft Type            | T                |
| Frame Length      | 5.82 in                      | Shaft Diameter        | 1.125 in         |
| Shaft Extension   | 2.75 in                      | Assembly/Box Mounting | F1/F2 Capable    |
| Outline Drawing   | SS620855                     | Connection Diagram    | EE7308           |

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|       |       |      |      |      |   |
|-------|-------|------|------|------|---|
| 182T  | 15.08 | 5.67 | 4.50 | ／    | 4 |
| 184T  | 16.08 | 6.69 | 5.50 | 4.50 | 8 |
| FRAME | C     | B    | 2F   | 2F'  | N |



| NO.                                                                                                                                                                                                                                 | REVISION                                       | BY & DATE      | CHK | ANG   | TOLERANCES<br>UNLESS SPECIFIED |                 | DRAWN RM | 11/20/1990               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------|-----|-------|--------------------------------|-----------------|----------|--------------------------|
|                                                                                                                                                                                                                                     |                                                |                |     |       | DEC.                           | INCHES          |          |                          |
| 5                                                                                                                                                                                                                                   | CHG TO REGAL LOGO                              | SL 09/10/2015  | AB  |       |                                |                 | CHK      | ML 11/21/1990            |
| 4                                                                                                                                                                                                                                   | REVISED IEC NOTATIONS                          | MSG 11/15/2011 | CMN | .X    | ±.1                            |                 | APPD     | SAS 04/24/2003           |
| 3                                                                                                                                                                                                                                   | ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194 | MSG 5/10/2010  | MJS | .XX   | ±.02                           |                 | SCALE    | 1=1                      |
| 2                                                                                                                                                                                                                                   | ADDED THE OPTIONAL CORD CONNECTION MU46318     | RDH 04/24/2003 | DRS | .XXX  | ±.005                          |                 | REF      |                          |
| 1                                                                                                                                                                                                                                   | REDRAWN                                        | RM 11/20/1990  |     | .XXXX | ±.0005                         |                 | FMF      |                          |
|                                                                                                                                                                                                                                     |                                                |                |     |       | ±7'30"                         |                 | PREV     |                          |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED<br>THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT |                                                |                |     |       | RFP                            | CAD FILE ee7308 | SIZE     | DRAWING NO. PAGE OF REV. |
|                                                                                                                                                                                                                                     |                                                |                |     |       | DIST WP                        |                 | A        | EE7308 5                 |



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**CERTIFICATION DATA SHEET**

**CUSTOMER:**

**CUSTOMER PO#:**

**ORDER #:**

**MODEL #:** 182TTFCD6076 AA

**CONN. DIAGRAM:** EE7308

**CUSTOMER PART**

**#:**

**OUTLINE:** SS620855

**MOUNTING:** F1/F2 CAPABLE

**WINDING #:** HE31126008 3

**TYPICAL MOTOR PERFORMANCE DATA**

| HP      | KW        | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---------|-----------|-----------|----------|-------|-----------|----------|--------|
| 1 1/2&1 | 1.12&0.75 | 1200      | 1175&980 | 182T  | TEFC      | K        | B      |

| PH | Hz    | VOLTS           | AMPS             | START TYPE       | DUTY       | INSL | S.F.      | AMB°C |
|----|-------|-----------------|------------------|------------------|------------|------|-----------|-------|
| 3  | 60/50 | 230/460&190/380 | 4.6/2.3&4.5/2.25 | LINE OR INVERTER | CONTINUOUS | F7   | 1.15/1.15 | 40    |

|                |  |           |               |      |               |    |          |                   |
|----------------|--|-----------|---------------|------|---------------|----|----------|-------------------|
| FULL LOAD EFF: |  | 87.5&78.5 | 3/4 LOAD EFF: | 86.5 | 1/2 LOAD EFF: | 84 | GTD. EFF | ELEC. TYPE        |
| FULL LOAD PF:  |  | 70864     | 3/4 LOAD PF:  | 61   | 1/2 LOAD PF:  | 48 | 86.5     | SQ CAGE INV RATED |

|             |       |                   |             |       |             |    |             |    |
|-------------|-------|-------------------|-------------|-------|-------------|----|-------------|----|
| F.L. TORQUE |       | LOCKED ROTOR AMPS | L.R. TORQUE |       | B.D. TORQUE |    | F.L. RISE°C |    |
| 6.7         | LB-FT | 37 / 18.5         | 18.5        | LB-FT | 275 %       | 25 | LB-FT 370 % | 55 |

|                        |     |             |            |           |                 |               |                   |        |
|------------------------|-----|-------------|------------|-----------|-----------------|---------------|-------------------|--------|
| SOUND PRESSURE @ 3 FT. |     | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |        |
| 50                     | DBA | 60          | DBA        | - LB-FT^2 | - LB-FT^2       | 15            | SEC. 2            | - LBS. |

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

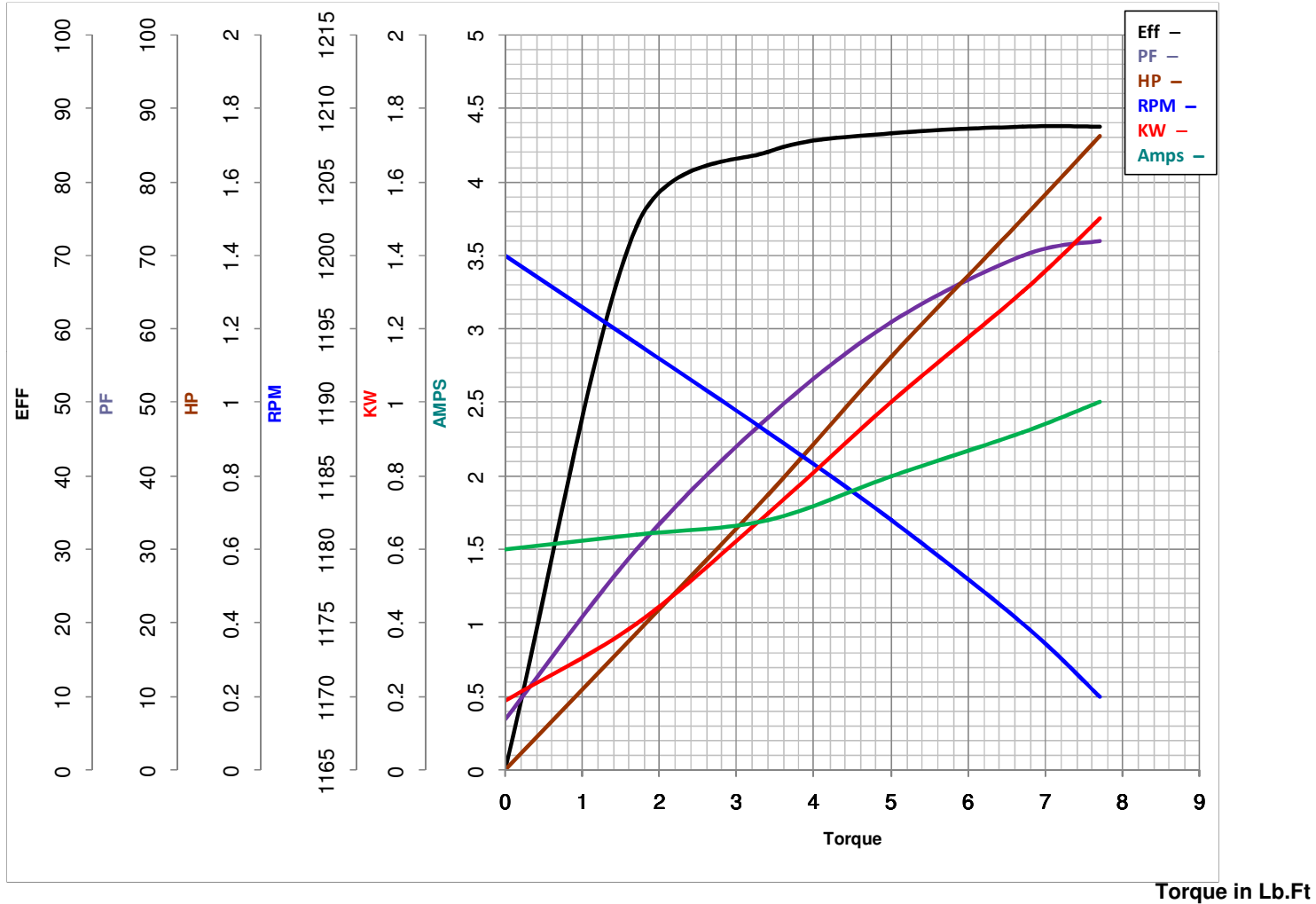
| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIIP COVER             | SCREENS | PAINT          |
|-----------------|------------------|------------|-------------|-------------|--------------------|-------------------------|---------|----------------|
| STANDARD        | STANDARD         | RIGID      | HORIZONTAL  | FALSE       | DIVISION 2 T2B     | FALSE                   | NONE    | BLUE (ENAMEL)  |
| BEARINGS        |                  | GREASE     | SHAFT TYPE  | SPECIAL DE  | SPECIAL ODE        | SHAFT MATERIAL          |         | FRAME MATERIAL |
| DE              | ODE              | POLYREX EM | T           | NONE        | NONE               | 1045 HOT ROLLED (C-204) |         | CAST IRON      |
| BALL            | BALL             |            |             |             |                    |                         |         |                |
| 6206            | 6205             |            |             |             |                    |                         |         |                |

| THERMO-PROTECTORS                |            |          |          |  |  |      | THERMISTORS |      | CONTROL | SPACE HEATERS |  |
|----------------------------------|------------|----------|----------|--|--|------|-------------|------|---------|---------------|--|
| THERMOSTATS                      | PROTECTORS | WDG RTDS | BRG RTDS |  |  |      |             |      |         |               |  |
| NONE                             | NOT        | NONE     | NONE     |  |  | NONE | FALSE       | NONE | NONE    | VOLTS         |  |
| * INVERTER TORQUE: VARIABLE 20:1 |            |          |          |  |  |      |             |      |         |               |  |
| INV. HP SPEED RANGE: NONE        |            |          |          |  |  |      |             |      |         |               |  |
| ENCODER: NONE                    |            |          |          |  |  |      |             |      |         |               |  |
| NONE NONE NONE                   |            |          |          |  |  |      |             |      |         |               |  |
| NONE NONE PPR                    |            |          |          |  |  |      |             |      |         |               |  |
| BRAKE: NONE NONE                 |            |          |          |  |  |      |             |      |         |               |  |
| NONE P/N NONE                    |            |          |          |  |  |      |             |      |         |               |  |
| NONE NONE                        |            |          |          |  |  |      |             |      |         |               |  |
| NONE FT-LB NONE V NONE HZ        |            |          |          |  |  |      |             |      |         |               |  |

**PREPARED BY:** Anusha Muthyala  
**DATE:** 05/04/2018 02:18:42 AM  
FORM 3531 REV.3 02/07/99  
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**MARATHON ELECTRIC CORPORATION**

TYPICAL PERFORMANCE CURVE for AC MOTOR

**Customer****Curve at**460**Volts****HP** 1.5&1**PHASE** 3**Model No** 182TTFCD607660**HZ****VOLTS** 230/460&190/3801.5**HP****Catalog No** GT1005A**HZ** 60&50**RPM** 1175&980

Torque in Lb.Ft

**FL TORQUE** 6.7 **Lb.Ft****BD TORQUE** 25.0 **Lb.Ft****LR TORQUE** 18.5 **Lb.Ft****FL AMPS** 4.6/2.3**PU TORQUE** 15.0 **Lb.Ft****LR AMPS** 18.5**WINDING** HE31126008-3**Prepared By**

ANUSHA M

**Date**

5/4/2018