

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 184TTDW16071

Catalog No: E905B

5 HP General Purpose Motor, 3 phase, 1800 RPM, 200 V, 184T Frame, ODP  
General Purpose Motors



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**RegalRexnord**

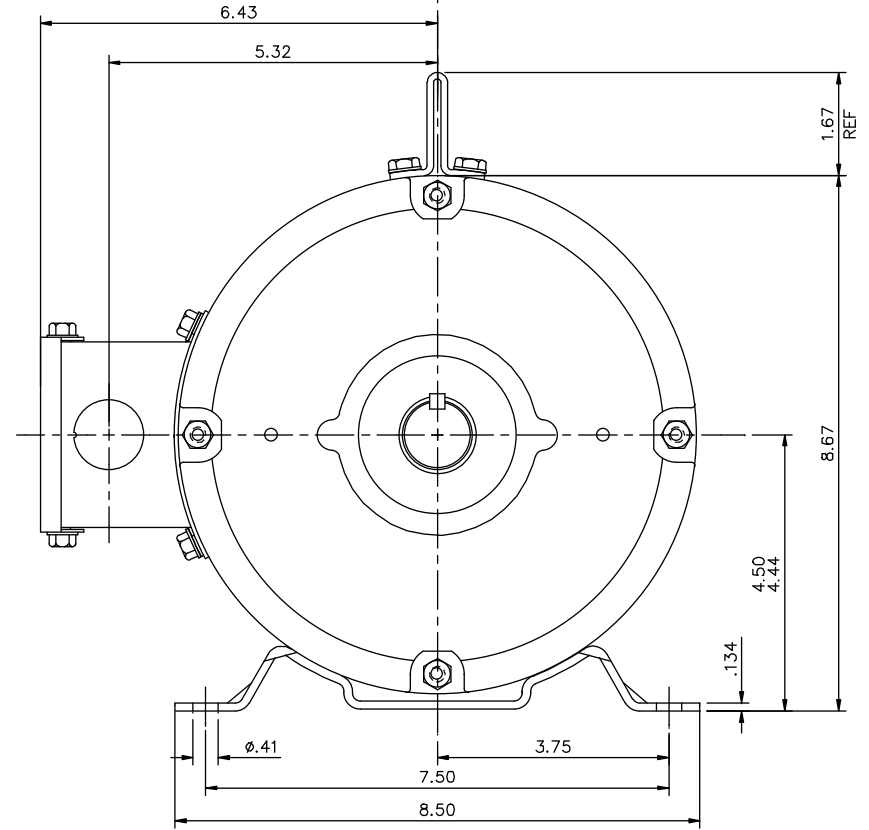
**Nameplate Specifications**

|                        |            |                            |            |
|------------------------|------------|----------------------------|------------|
| Output HP              | 5 Hp       | Output KW                  | 3.7 kW     |
| Frequency              | 60 Hz      | Voltage                    | 200 V      |
| Current                | 14.5 A     | Speed                      | 1755 rpm   |
| Service Factor         | 1.15       | Phase                      | 3          |
| Efficiency             | 89.5 %     | Power Factor               | 83         |
| Duty                   | Continuous | Insulation Class           | F          |
| Design Code            | B          | KVA Code                   | J          |
| Frame                  | 184T       | Enclosure                  | Drip Proof |
| Thermal Protection     | No         | Ambient Temperature        | 40 °C      |
| Drive End Bearing Size | 6206       | Opp Drive End Bearing Size | 6205       |
| UL                     | Recognized | CSA                        | Y          |
| CE                     | Y          | IP Code                    | 12         |
| Number of Speeds       | 1          |                            |            |

**Technical Specifications**

|                       |                             |                       |                 |
|-----------------------|-----------------------------|-----------------------|-----------------|
| Electrical Type       | Squirrel Cage Induction Run | Starting Method       | Across The Line |
| Poles                 | 4                           | Rotation              | Reversible      |
| Resistance Main       | 2.72 Ohms                   | Mounting              | Rigid Base      |
| Motor Orientation     | Horizontal                  | Drive End Bearing     | Ball            |
| Opp Drive End Bearing | Ball                        | Frame Material        | Rolled Steel    |
| Shaft Type            | T                           | Overall Length        | 14.19 in        |
| Frame Length          | 10.00 in                    | Shaft Diameter        | 1.125 in        |
| Shaft Extension       | 2.75 in                     | Assembly/Box Mounting | F1 ONLY         |
| Outline Drawing       | 035534-1000                 | Connection Drawing    | 005102.01ME     |

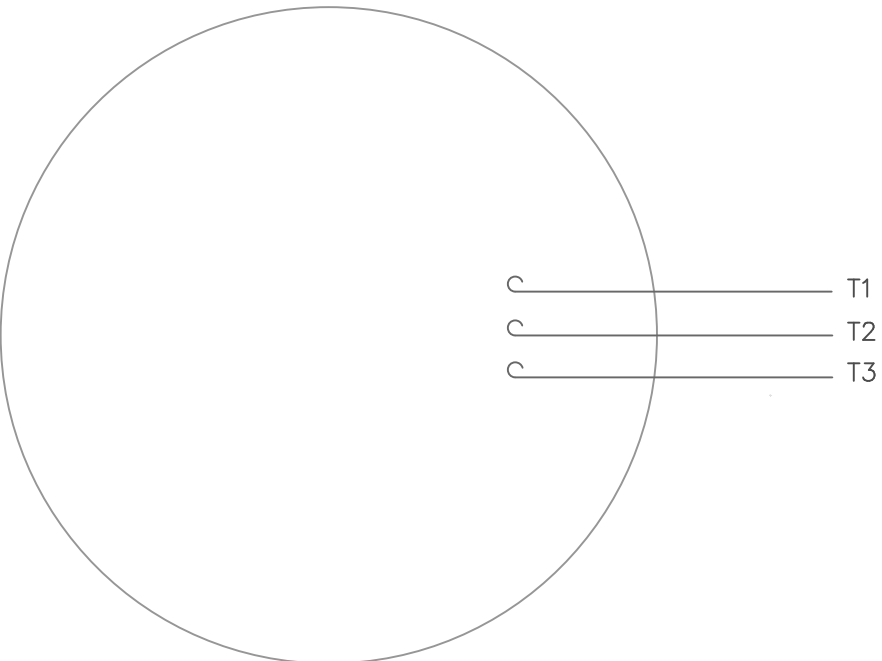
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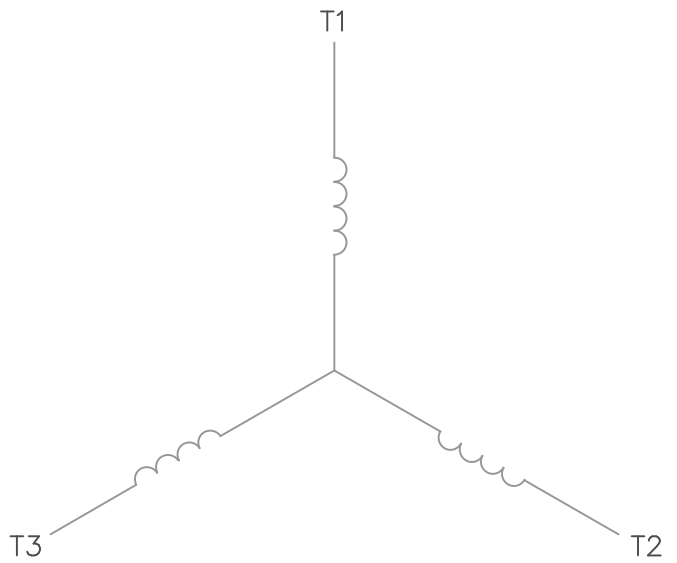
| DASH NO. | "C"   | "AD" |
|----------|-------|------|
| 850      | 12.69 | 5.25 |
| 900      | 13.19 | 5.75 |
| 950      | 13.69 | 6.25 |
| 1000     | 14.19 | 6.75 |
| 1050     | 14.69 | 7.25 |
| 1100     | 15.19 | 7.75 |
| 1150     | 15.69 | 8.25 |
| 1200     | 16.19 | 8.75 |

|                                                                                                                                                                                                                                     |                                             |  |  |           |          |                                |                                                                                       |                                                  |        |          |                    |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--|--|-----------|----------|--------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------|--------|----------|--------------------|---------|
|                                                                                                                                                                                                                                     |                                             |  |  |           |          | TOLERANCES<br>UNLESS SPECIFIED |  | DRAWN                                            | VV     | 06/22/07 |                    |         |
|                                                                                                                                                                                                                                     |                                             |  |  |           | DEC.     | INCHES                         |                                                                                       | CHK                                              |        |          |                    |         |
|                                                                                                                                                                                                                                     |                                             |  |  |           | .X       | ±.1                            |                                                                                       | APPD                                             | RVD    | 06/22/07 |                    |         |
|                                                                                                                                                                                                                                     |                                             |  |  |           | .XX      | ±.03                           |                                                                                       | TITLE OUTLINE – 180T FRAME<br>DRIP PROOF – RIGID |        |          | SCALE 1=2          |         |
| 02                                                                                                                                                                                                                                  | ADD "INVERTER DUTY" DECAL PER ISAAC 09–5523 |  |  | LST       | 1/25/10  | .XXX                           |                                                                                       | ±.005                                            | REF    |          |                    |         |
| 01                                                                                                                                                                                                                                  | REMOVED SERIES–E DECAL                      |  |  | VV        | 08/08/07 | .XXX                           |                                                                                       | ±.0005                                           | MAT'L  |          |                    |         |
| NO.                                                                                                                                                                                                                                 | REVISION                                    |  |  | BY & DATE |          | CHK                            | ANG                                                                                   | ±1/2"                                            | FINISH |          | PREV               |         |
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|                                                                                                                                                                                                                                     |                                             |  |  |           |          |                                | DIST                                                                                  | NLV                                              |        |          |                    |         |

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



CONNECT LEADS AS FOLLOWS  
FOR FOUR CONDUCTOR CORD ( )

|       |             |               |               |         |
|-------|-------------|---------------|---------------|---------|
| CORD  | L1<br>(RED) | L2<br>(WHITE) | L3<br>(BLACK) | (GREEN) |
| MOTOR | T1          | T2            | T3            | GROUND  |

|                                                                                                                                                                                                                                        |          |           |      |                                |        |                                                                                       |                       |             |             |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|------|--------------------------------|--------|---------------------------------------------------------------------------------------|-----------------------|-------------|-------------|------|
|                                                                                                                                                                                                                                        |          |           |      | TOLERANCES<br>UNLESS SPECIFIED |        |  | DRAWN RDW 5/1/02      |             |             |      |
|                                                                                                                                                                                                                                        |          |           |      | DEC.                           | INCHES |                                                                                       | CHK                   |             |             |      |
|                                                                                                                                                                                                                                        |          |           |      | .X                             | ±.1    |                                                                                       | APPD                  |             |             |      |
|                                                                                                                                                                                                                                        |          |           |      | .XX                            | ±.01   |                                                                                       | SCALE 1=1             |             |             |      |
|                                                                                                                                                                                                                                        |          |           |      | .XXX                           | ±.005  |                                                                                       | REF                   |             |             |      |
|                                                                                                                                                                                                                                        |          |           |      | .XXXX                          | ±.0005 |                                                                                       | MAT'L. DECAL – 004169 |             |             |      |
| NO.                                                                                                                                                                                                                                    | REVISION | BY & DATE | CHK  | ANG                            | ±1/2°  | FINISH                                                                                |                       | FMF         |             |      |
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|                                                                                                                                                                                                                                        |          |           | DIST |                                |        |                                                                                       | A                     | 005102–01ME |             |      |
|                                                                                                                                                                                                                                        |          |           |      |                                |        |                                                                                       |                       |             |             |      |

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## CERTIFICATION DATA SHEET

Model#: 184TTDW16071 AA  
 CONN. DIAGRAM: 005102.01ME  
 OUTLINE: 035534-1000

WINDING#: T84169 DR 5  
 ASSEMBLY: F1 ONLY

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW   | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|--------|
| 5  | 3.70 | 1800      | 1755     | 184T  | DP        | J        | B      |

| PH | Hz | VOLTS | FL AMPS | START TYPE      | DUTY       | INSL | S.F  | AMB°C | ELEVATION |
|----|----|-------|---------|-----------------|------------|------|------|-------|-----------|
| 3  | 60 | 200   | 14.5    | ACROSS THE LINE | CONTINUOUS | F4   | 1.15 | 40    | 3300      |

|                     |                 |                 |          |                 |              |
|---------------------|-----------------|-----------------|----------|-----------------|--------------|
| FULL LOAD EFF: 89.5 | 3/4 LOAD EFF: - | 1/2 LOAD EFF: - | GTD. EFF | ELEC. TYPE      | NO LOAD AMPS |
| FULL LOAD PF: 83    | 3/4 LOAD PF: -  | 1/2 LOAD PF: -  | 0        | SQ CAGE IND RUN | -            |

|             |                   |             |             |             |
|-------------|-------------------|-------------|-------------|-------------|
| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
| - LB-FT     | -                 | - LB-FT -   | - LB-FT -   | 50          |

|                        |             |               |           |                 |              |                   |
|------------------------|-------------|---------------|-----------|-----------------|--------------|-------------------|
| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2    | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
| 0 dBA                  | 10 dBA      | 0.434 LB-FT^2 | 0 LB-FT^2 | 0 SEC.          | 0            | 0 LBS.            |

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

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

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL    | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------|----------------|
| DE       | OPE  |            |            |            |             |                   |                |
| BALL     | BALL |            |            |            |             |                   |                |
| 6206     | 6205 | POLYREX EM | T          | NONE       | NONE        | AISI 1045 (C-240) | ROLLED STEEL   |

| THERMO-PROTECTORS |            |          |          | 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

|                                 |                           |        |  |         |
|---------------------------------|---------------------------|--------|--|---------|
| *<br>N<br>O<br>T<br>E<br>S<br>* | INVERTER TORQUE: NONE     |        |  |         |
|                                 | 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: 06/28/2017 06:40:01 AM  
 FORM 3531 REV.3 02/07/99  
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**MARATHON ELECTRIC CORPORATION**

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

200

Volts

 HP 5.00

 PHASE 3

 Model No 184TTDW16071
60

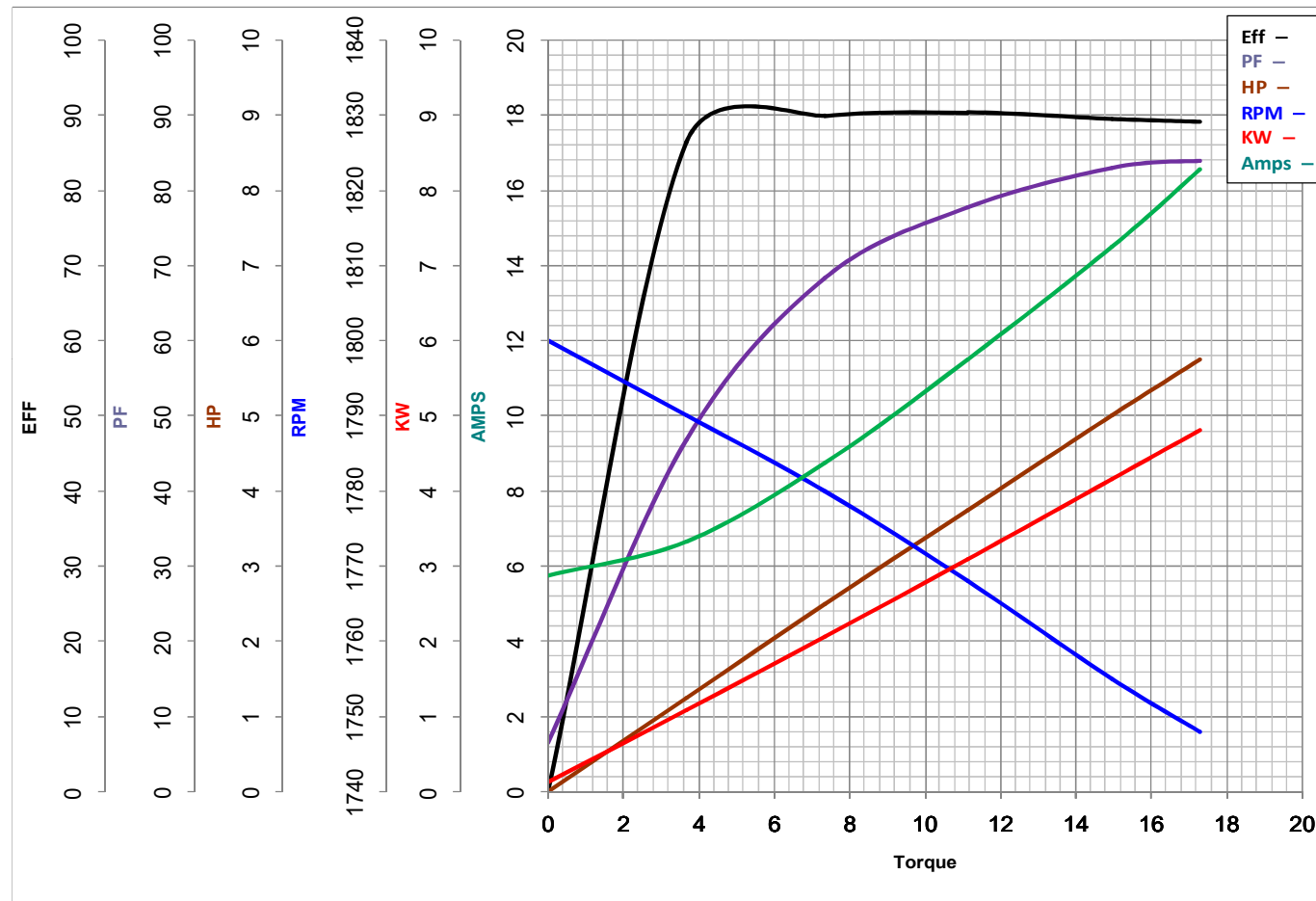
HZ

 VOLTS 200
5

HP

 Catalog No E905B

 HZ 60

 RPM 1755


Torque in Lb.Ft

 FL TORQUE 14.95 Lb.Ft

 BD TORQUE 47.7 Lb.Ft

 LR TORQUE 30 Lb.Ft

 FL AMPS 14.5

 PU TORQUE 29.0 Lb.Ft

 LR AMPS 106.49

WINDING T84169-5

Date 1/10/2019