

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TCDW17084

Catalog No: I141A

General Purpose Motor, 1 HP, 1 Ph, 60 Hz, 115/230 V, 1200 RPM, 182T Frame, DP



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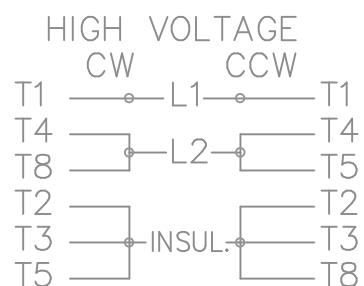
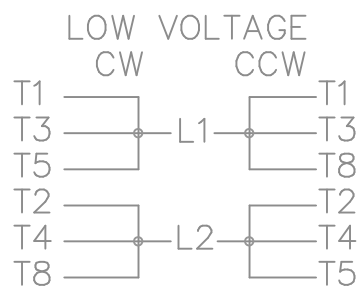
Nameplate Specifications

| | | | |
|------------------------|---------------|----------------------------|------------|
| Phase | 1 | Output HP | 1 Hp |
| Output KW | 0.75 kW | Voltage | 115/230 V |
| Speed | 1165 rpm | Service Factor | 1.15 |
| Frame | 182T | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Efficiency | 68 % |
| Ambient Temperature | 40 °C | Frequency | 60 Hz |
| Current | 15.6/7.8 A | Power Factor | 61.5 |
| Duty | Continuous | Insulation Class | B |
| Design Code | L | KVA Code | K |
| Drive End Bearing Size | 6206 | Opp Drive End Bearing Size | 6205 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 22 |
| Number of Speeds | 1 | | |

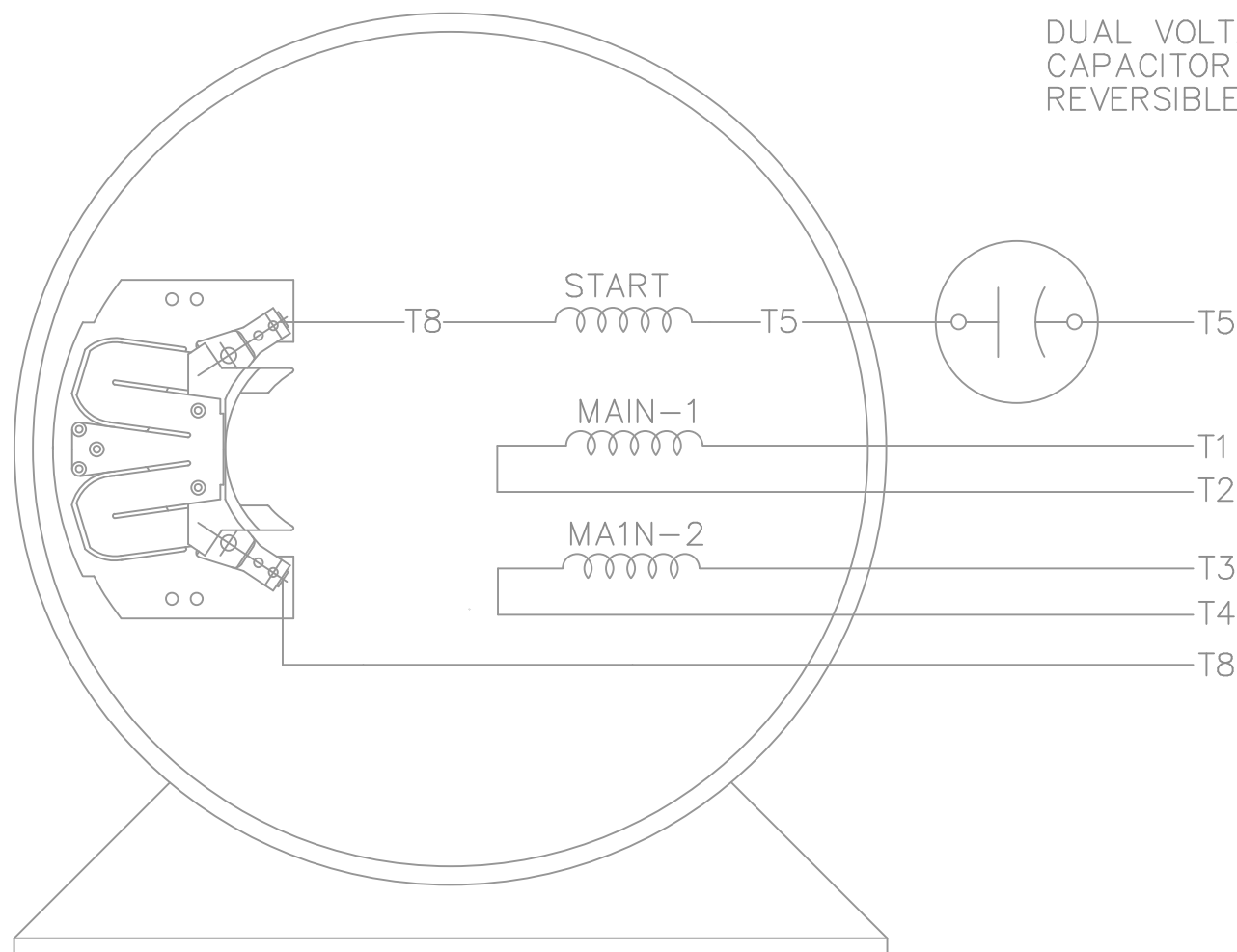
Technical Specifications

| | | | |
|-----------------------|-------------------------------|-----------------------|----------------------------|
| Electrical Type | Capacitor Start Induction Run | Starting Method | Across The Line |
| Poles | 6 | Rotation | Selective Counterclockwise |
| Resistance Main | 0 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 | 2.81 in | Assembly/Box Mounting | F1 ONLY |
| Connection Drawing | EE7085FP | Outline Drawing | 035668-1000 |






DUAL VOLTAGE
CAPACITOR START
REVERSIBLE



VIEW OF TERMINAL END

| | | | TOLERANCES UNLESS SPECIFIED | |  | DRAWN GK 09-24-1986 | | | |
|--|---------------------|----------------|--------------------------------|--------|---|---------------------|--------|----------------------|-------------|
| | | | DEC. | INCHES | | CHK FG 09-24-1986 | | | |
| | | | .X | ± - | | APPD ML 09-24-1986 | | | |
| | | | .XX | ± - | | SCALE 1=1 | | | |
| | | | .XXX | ± - | | REF | | | |
| 2 | REDRAWN IN AUTOCAD | RWR 08-02-2004 | .XXX | ± - | TITLE CONNECTION DIAGRAM | FMF | | | |
| 1 | NEW DRAWING CN7664C | GK 12-15-1996 | .XXXX | ± - | | PREV | | | |
| NO. | REVISION | BY & DATE | CHK | ANG | ± - | FINISH | | | |
| 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 THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT | | | RFP | | | CAD FILE EE7085FP | SIZE A | DRAWING NO. EE7085FP | PAGE 1 OF 1 |
| | | | DIST LB | | | | | | REV. 2 |

CERTIFICATION DATA SHEET

Model#: 182TCDW17084 AA

WINDING#: C8610 R1 3

CONN. DIAGRAM: 005062.01ME

ASSEMBLY: F1 ONLY

OUTLINE: 035668-1000

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|-----|-----------|----------|-------|-----------|----------|--------|
| 1 | .75 | 1200 | 1165 | 182T | DP | K | L |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|---------|----------|-----------------|------------|------|------|-------|-----------|
| 1 | 60 | 115/230 | 15.6/7.8 | ACROSS THE LINE | CONTINUOUS | B4 | 1.15 | 40 | 3300 |

| | | | | | |
|--------------------|--------------------|--------------------|----------|-------------------|--------------|
| FULL LOAD EFF: 68 | 3/4 LOAD EFF: 66.4 | 1/2 LOAD EFF: 60.8 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
| FULL LOAD PF: 61.5 | 3/4 LOAD PF: 53.5 | 1/2 LOAD PF: 43.2 | 0 | CAP START IND RUN | 11.2 / 5.6 |

| | | | | |
|-------------|-------------------|----------------|---------------|-------------|
| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
| 4.5 LB-FT | 68.8 / 34.4 | 12.9 LB-FT 287 | 9.7 LB-FT 216 | 50 |

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

| | | | | | | |
|---------------------------------|---------------------------|------------|--|--------|--|---------|
| * N O T E S * | 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: 06/21/2017 11:31:47 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.


MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

230

Volts

 HP 1.00

 PHASE 1

 Model No 182TCDW17084
60

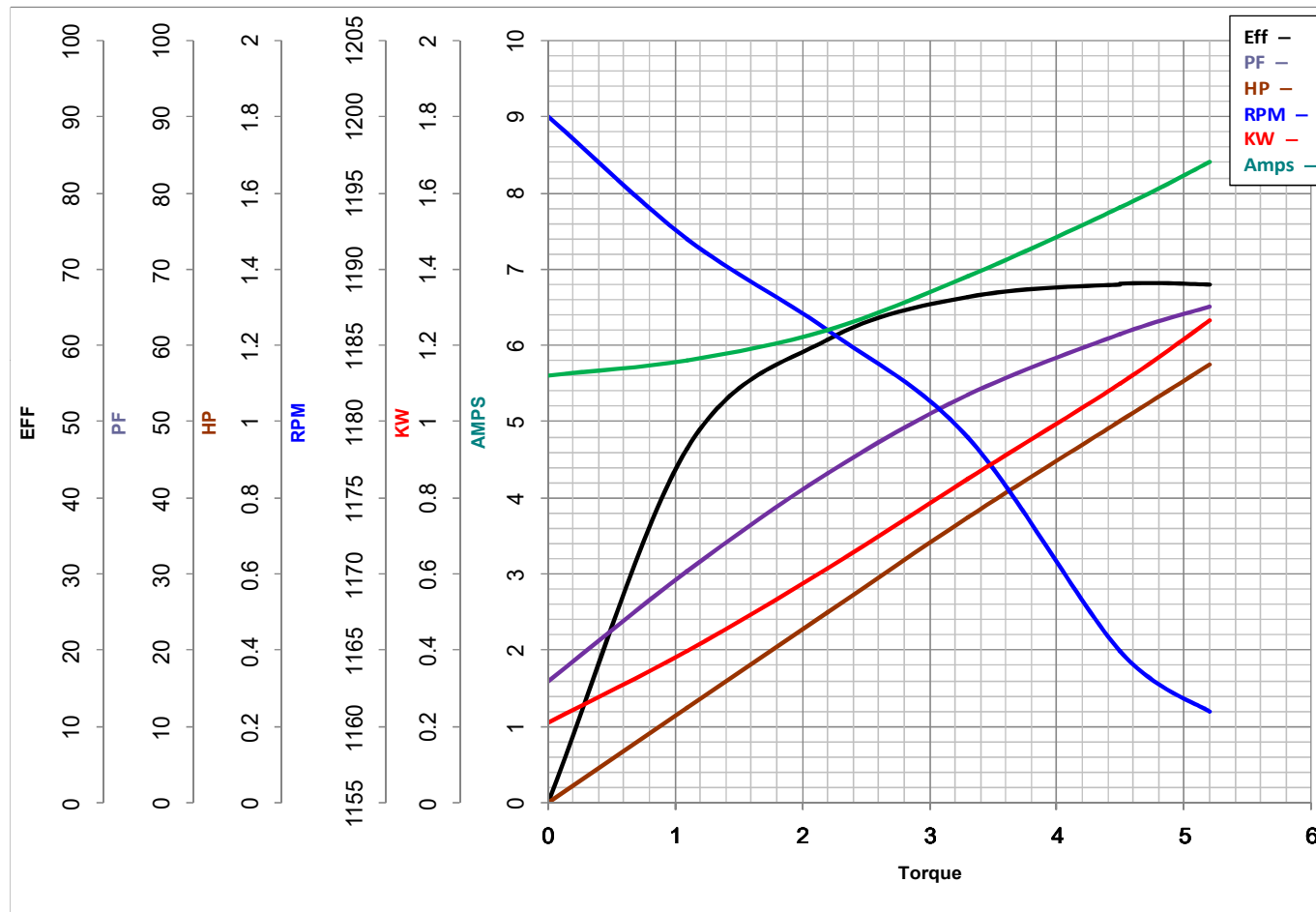
HZ

 VOLTS 115/230
1

HP

 Catalog No 1141A

 HZ 60

 RPM 1165


Torque in Lb.Ft

 FL TORQUE 4.5 Lb.Ft

 BD TORQUE 9.7 Lb.Ft

 LR TORQUE 12.9 Lb.Ft

 FL AMPS 15.6/7.8

 PU TORQUE 8.1 Lb.Ft

 LR AMPS 34.4

WINDING C8610-3

Date 1/9/2019

EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 182TCDW17084

(Model No. may contain prefix and/or suffix characters)

Catalog No : I141A

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22