# PRODUCT INFORMATION PACKET

Model No: 131781.00
Catalog No: 131781.00
General Purpose Motor, 5 HP, 1 Ph, 60 Hz, 208-230 V, 3600 RPM, 184TC Frame, DP


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## Nameplate Specifications

| | | | |
|---|---|---|---|
| Output HP | 5 Hp | Output KW | 3.7 kW |
| Frequency | 60 Hz | Voltage | 208-230 V |
| Current | 23.0-22.2 A | Speed | 3490 rpm |
| Service Factor | 1.15 | Phase | 1 |
| Efficiency | 80 % | Power Factor | 92 |
| Duty | Continuous | Insulation Class | F |
| Design Code | L | KVA Code | G |
| Frame | 184TC | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6206 | Opp Drive End Bearing Size | 6205 |
| UL | Recognized | CSA | Y |
| CE | N | IP Code | 22 |
| Number of Speeds | 1 | | |

## Technical Specifications

| | | | |
|---|---|---|---|
| Electrical Type | Capacitor Start Capacitor Run | Starting Method | Across The Line |
| Poles | 2 | Rotation | Selective Counterclockwise |
| Resistance Main | .37 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 | 14.70 in |
| Frame Length | 10.50 in | Shaft Diameter | 1.125 in |
| Shaft Extension | 2.75 in | Assembly/Box Mounting | F1 ONLY |
| Outline Drawing | 035502-1050 | Connection Drawing | 005018.01 |

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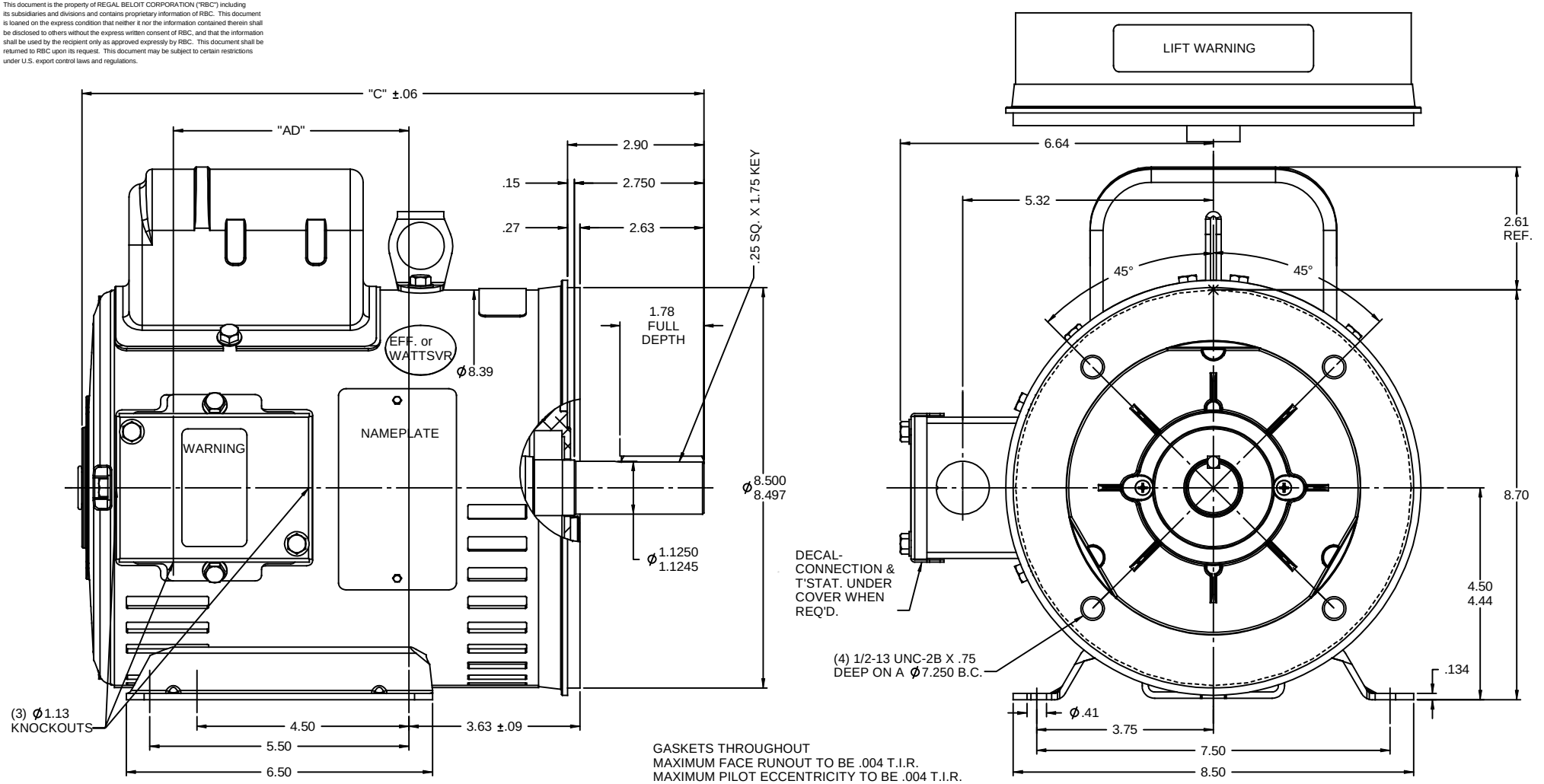


GASKETS THROUGHOUT
MAXIMUM FACE RUNOUT TO BE .004 T.I.R.
MAXIMUM PILOT ECCENTRICITY TO BE .004 T.I.R.
PERMISSIBLE SHAFT RUNOUT TO BE .002 T.I.R.

| DASH NO. | "C" | "AD" |
|---|---|---|
| 900 | 13.20 | 5.00 |
| 950 | 13.70 | 5.50 |
| 1000 | 14.20 | 6.00 |
| 1050 | 14.70 | 6.50 |
| 1100 | 15.20 | 7.00 |
| 1150 | 15.70 | 7.50 |
| 1200 | 16.20 | 8.00 |
| 1250 | 16.70 | 8.50 |

| NO | REVISION | BY & DATE | CHK |
|---|---|---|---|
| - | UPDATED & REDRAWN ON SOLIDWORKS | LST 12/18/2009 | XX |

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±1/2°

THIRD ANGLE PROJECTION

REGAL-BELOIT CORPORATION

TITLE OUTLINE - 180TC FRAME
DRIP PROOF - RIGID "C"
MAT'L GENERAL PURPOSE
FINISH

RFP
PREV
NETWORK FILE NAME

| | |
|---|---|
| DRAWN | SW 5/10/05 |
| CHK | |
| APPR | RDW 5/10/05 |
| SCALE | 1:2 |
| REF | 035501 |
| FMF | STANDARD |
| PAGE | OF |

SIZE B | DRAWING NO 035502 | REV -

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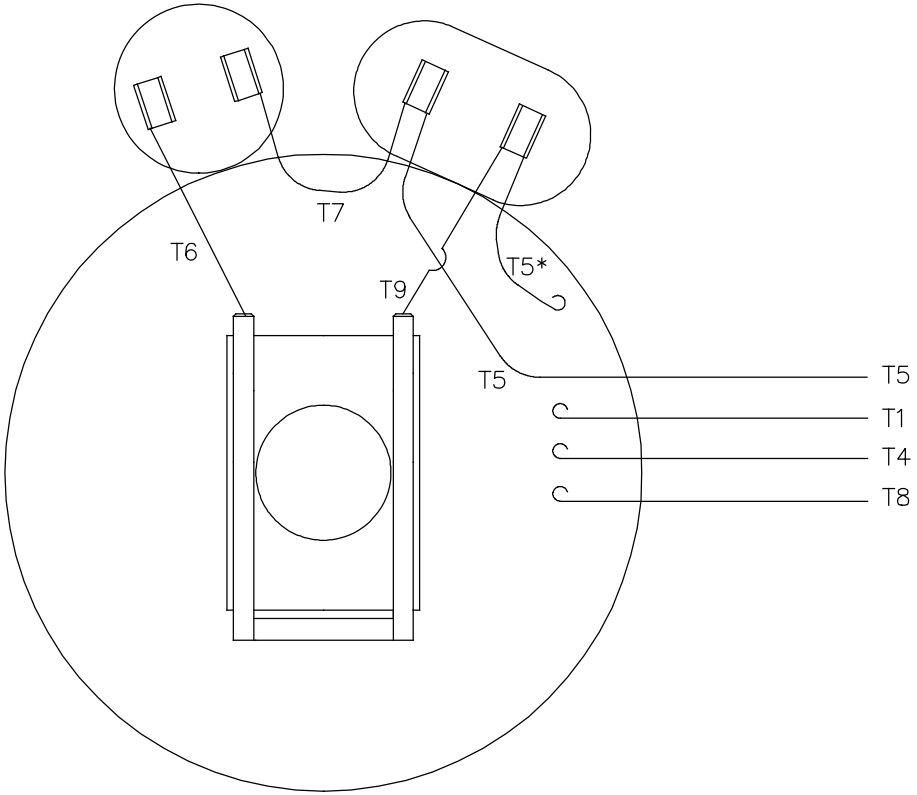
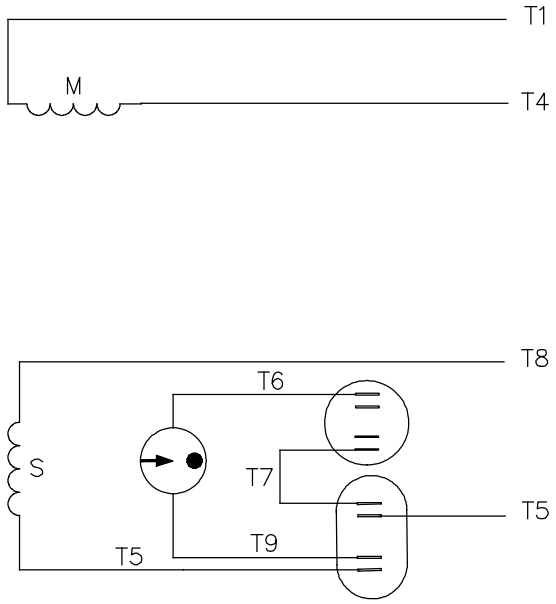
005018–01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.




* THIS LEAD MAY BE WHITE

## LINE LEADS




| ROTATION FACING LEAD END | L1 | L2 |
|---|---|---|
| C.C.W. | T1,T8 | T4,T5 |
| C.W. | T1,T5 | T4,T8 |

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| 21 | LOGO UPDATED FROM LEESON TO MARATHON | AS 07/03/19 | AS |
| 20 | ALTERNATE T5 LEAD MARKING WAS RED | RLW 7/22/02 | KH |
| 19 | ADDED ALTERNATE T5 LEAD MARKING | RLW 5/31/02 | KH |
| 18 | REDRAWN ON CAD | DBT 06/24/97 | |

TOLERANCES UNLESS SPECIFIED

| DEC. | INCHES |
|---|---|
| .X | ±.1 |
| .XX | ±.01 |
| .XXX | ±.005 |
| .XXXX | ±.0005 |
| ANG | ±1/2° |

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TITLE: EXTERNAL WIRING DIAGRAM TYPE "K" W/O PROTECTOR

MAT'L. DECAL – 004018

FINISH

DRAWN ADH 02/19/74
CHK WRK 02/20/74
APPD JCW 02/20/74
SCALE 1=1
REF
FMF
PREV

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CAD FILE 00501801

| SIZE | DRAWING NO. | REV. |
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| A | 005018–01 | 21 |

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LEESON

CERTIFICATION DATA SHEET

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810

**CONN. DIAGRAM:** 005018.01

**CATALOG #:** 131781.00

**OUTLINE:** 035502-1050

**MOUNTING:** F1 ONLY

**WINDING #:** K8222 DR 2 B

**TYPICAL MOTOR PERFORMANCE DATA**

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 5 | 3.70 | 3600 | 3490 | 184TC | DP | G | L |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|---|---|---|---|---|---|---|---|---|
| 1 | 60 | 208-230 | 23-22.2 | ACROSS THE LINE | CONTINUOUS | F4 | 1.15 | 40 |

| FULL LOAD EFF: | 80 | 3/4 LOAD EFF: | 78.5 | 1/2 LOAD EFF: | 75.1 | GTD. EFF | ELEC. TYPE |
|---|---|---|---|---|---|---|---|
| FULL LOAD PF: | 92 | 3/4 LOAD PF: | 91.3 | 1/2 LOAD PF: | 86.3 | 77 | CAP START CAP RUN |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 7.5 LB-FT | 141 | 19 LB-FT 253 % | 19.2 LB-FT 256 % | 44.9 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 0 dBA | 10 dBA | 0.16 LB-FT^2 | 0.2 LB-FT^2 | 10 SEC. | 0 | 73 LBS. |

***** SUPPLEMENTAL INFORMATION *****

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

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

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE HEATERS |
|---|---|---|---|---|---|---|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

***NOTES**

**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

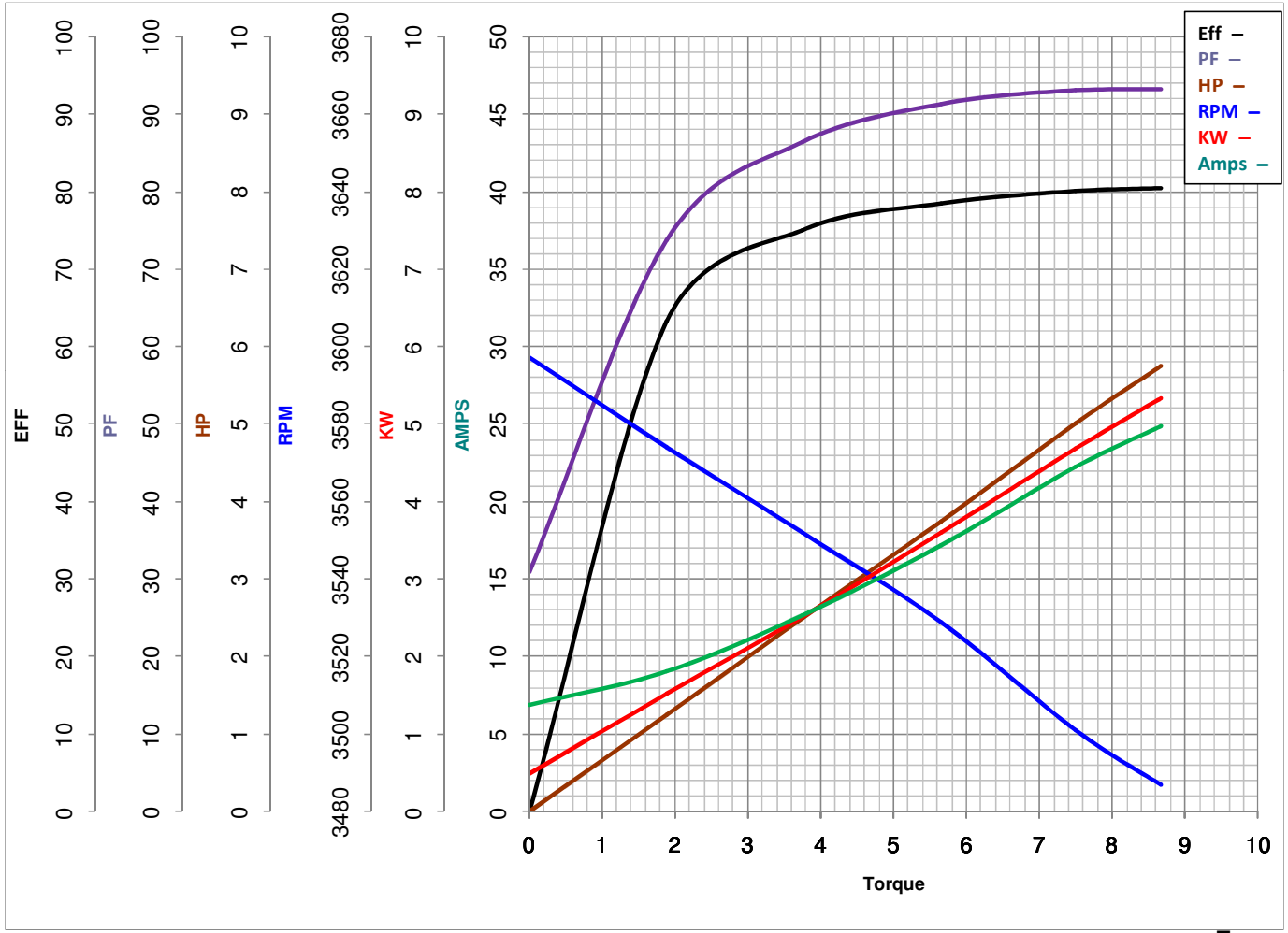
# LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

**Curve at** 230 **Volts** **HP** 5.00 **PHASE** 1
60 **HZ**
5 **HP** **VOLTS** 208-230

**Model No** 131781.00

**Catalog No** 131781.00 **HZ** 60 **RPM** 3490




**Torque in Lb.Ft**

| | | | | | |
|---|---|---|---|---|---|
| **FL TORQUE** | 7.5 | **Lb.Ft** | **FL AMPS** | 23-22.2 | |
| **BD TORQUE** | 19.2 | **Lb.Ft** | **PU TORQUE** | 16.0 | **Lb.Ft** |
| **LR TORQUE** | 19 | **Lb.Ft** | **LR AMPS** | 141 | |
| **WINDING** | K8222-2 | | | **Date** | **4/12/2018** |