

# PRODUCT INFORMATION PACKET



Model No: 131539.00

Catalog No: 131539.00

General Purpose Motor, 5 HP, 1 Ph, 60 Hz, 208-230 V, 1800 RPM, 184TC Frame, DP



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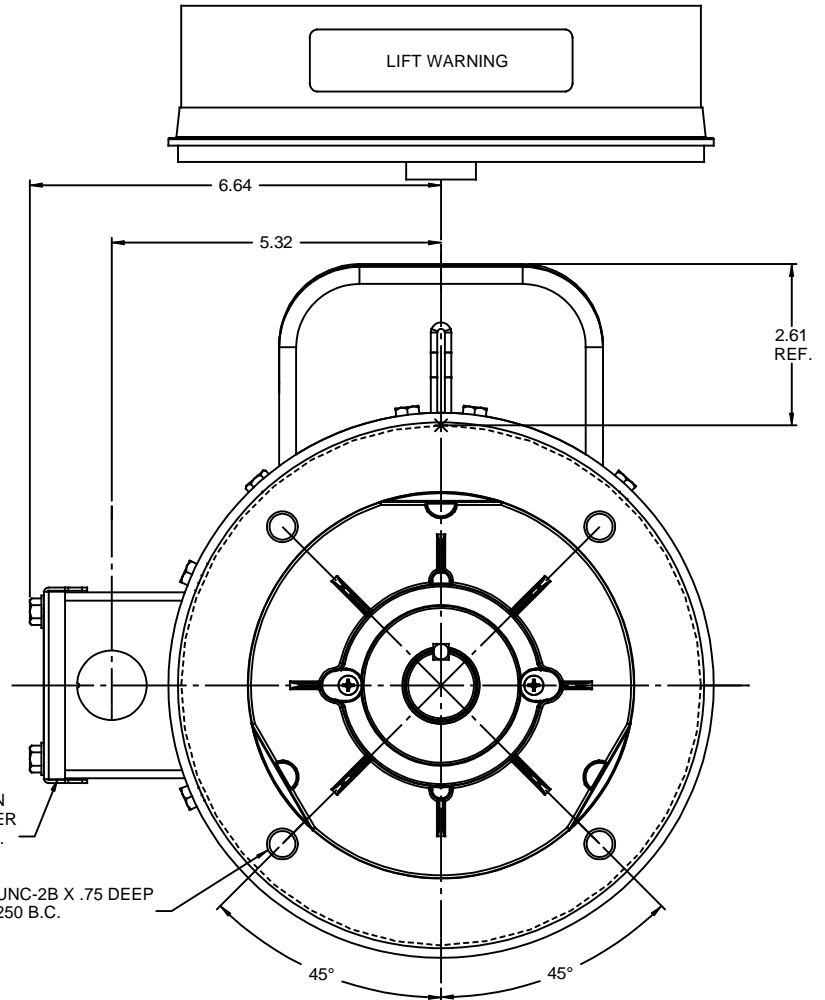
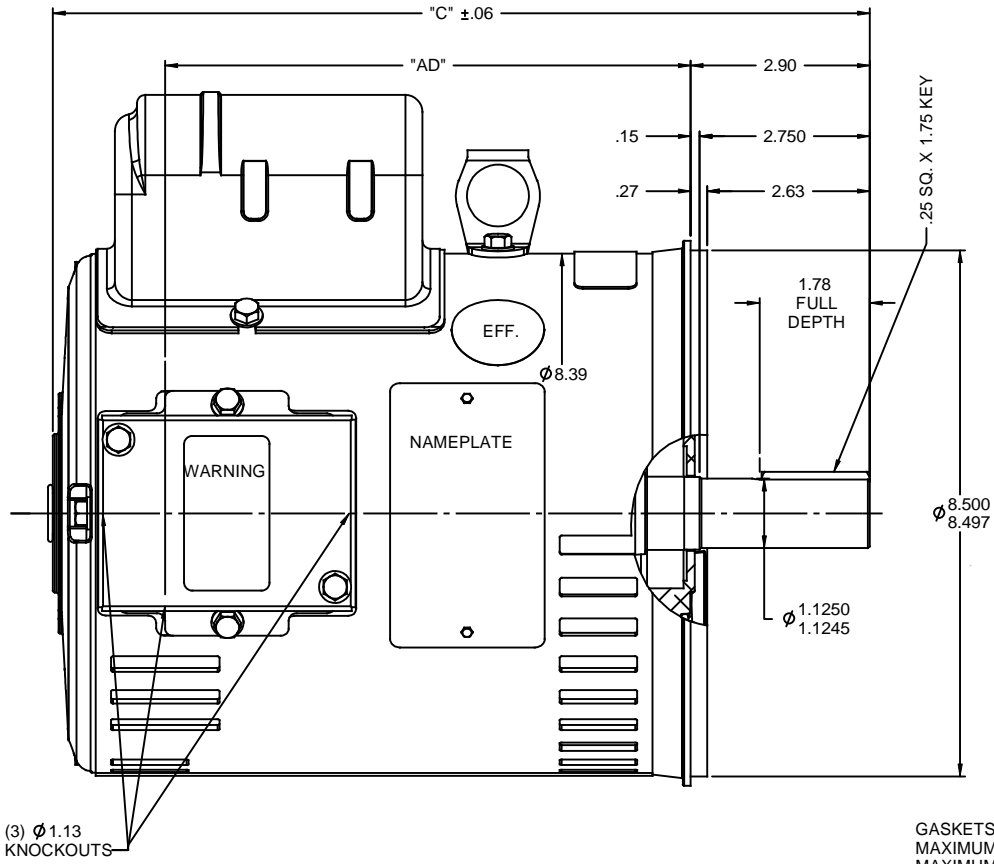
### Nameplate Specifications

|                        |               |                            |            |
|------------------------|---------------|----------------------------|------------|
| Phase                  | 1             | Output HP                  | 5 Hp       |
| Output KW              | 3.7 kW        | Voltage                    | 208-230 V  |
| Speed                  | 1740 rpm      | Service Factor             | 1.15       |
| Frame                  | 184TC         | Enclosure                  | Drip Proof |
| Thermal Protection     | No Protection | Efficiency                 | 83 %       |
| Ambient Temperature    | 40 °C         | Frequency                  | 60 Hz      |
| Current                | 23.0-21.0 A   | Power Factor               | 94         |
| Duty                   | Continuous    | Insulation Class           | F          |
| Design Code            | L             | KVA Code                   | H          |
| 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                 | 4                             | Rotation              | Selective Counterclockwise |
| Resistance Main       | .48 Ohms                      | Mounting              | Round                      |
| 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                    |
| Connection Drawing    | 005018.01                     | Outline Drawing       | 035371-1050                |

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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.

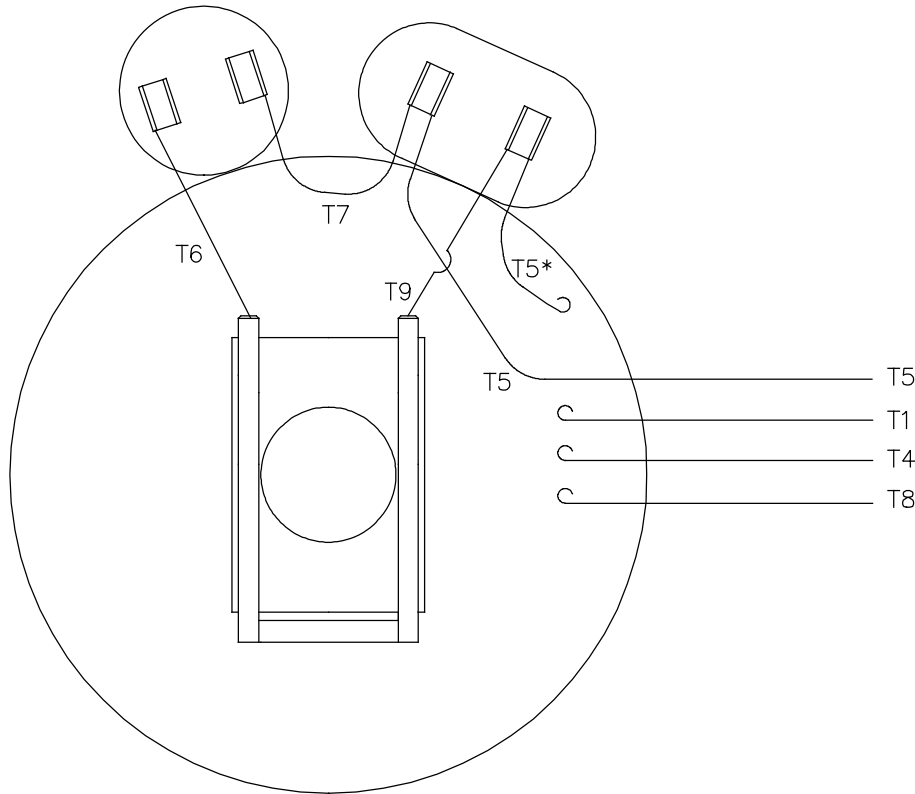
| DASH NO. | "C"   | "AD"  |
|----------|-------|-------|
| 850      | 12.70 | 7.88  |
| 900      | 13.20 | 8.38  |
| 950      | 13.70 | 8.88  |
| 1000     | 14.20 | 9.38  |
| 1050     | 14.70 | 9.88  |
| 1100     | 15.20 | 10.38 |
| 1150     | 15.70 | 10.88 |

| REVISION                            |  | BY & DATE      | CHK | ANG   | FINISH | PREV | SIZE | DRAWING NO | REV |
|-------------------------------------|--|----------------|-----|-------|--------|------|------|------------|-----|
| - UPDATED AND REDRAWN IN SOLIDWORKS |  | LST 12/21/2009 | XX  | XXX   | ±.0005 |      |      |            |     |
| NO                                  |  |                |     | ±1/2° |        |      |      |            |     |
| THIRD ANGLE PROJECTION              |  |                |     |       |        |      | B    | 035371     | -   |

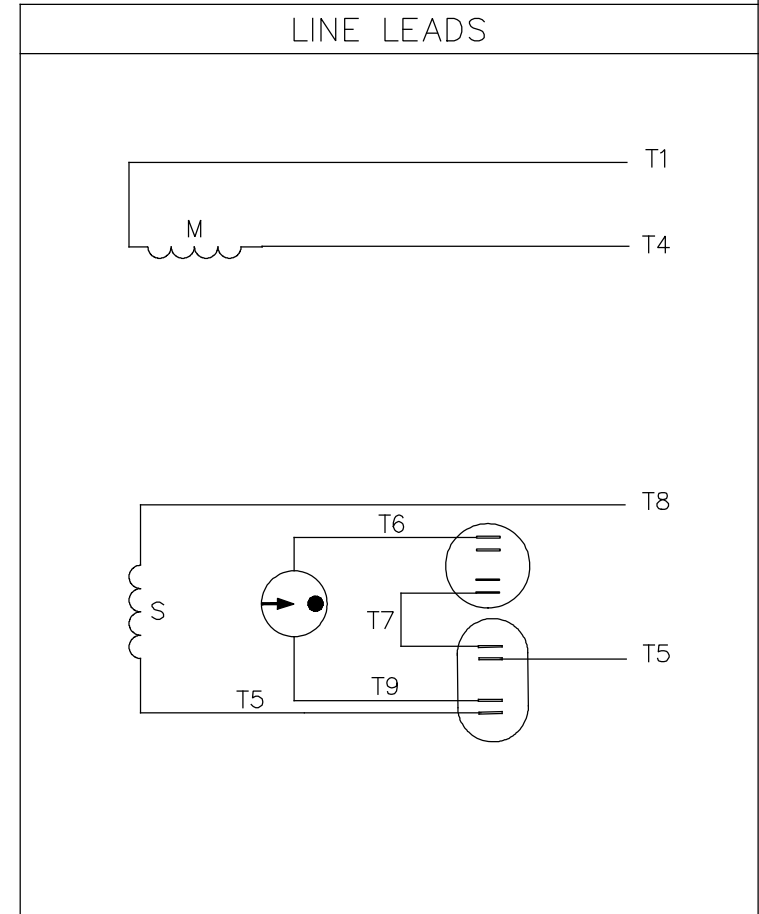


TOLERANCES UNLESS SPECIFIED:  
 DEC INCHES  
 X ±.1  
 .XX ±.03  
 .XXX ±.005  
 .XXX ±.0005  
 TITLE OUTLINE - 180TC FRAME  
 DRIP PROOF - "C" FACE  
 MAT'L  
 DRAWN PG 10/3/97  
 CHK RSK 10/3/97  
 APPR  
 SCALE 1:2  
 REF 035059  
 FMF STANDARD  
 PAGE OF

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.




\* THIS LEAD MAY BE WHITE



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

| NO. | REVISION                             | BY & DATE    | CHK | ANG   | TOLERANCES UNLESS SPECIFIED |        |
|-----|--------------------------------------|--------------|-----|-------|-----------------------------|--------|
|     |                                      |              |     |       | DEC.                        | INCHES |
| 21  | LOGO UPDATED FROM LEESON TO MARATHON | AS 07/03/19  | AS  | .X    | ±.1                         |        |
| 20  | ALTERNATE T5 LEAD MARKING WAS RED    | RLW 7/22/02  | KH  | .XX   | ±.01                        |        |
| 19  | ADDED ALTERNATE T5 LEAD MARKING      | RLW 5/31/02  | KH  | .XXX  | ±.005                       |        |
| 18  | REDRAWN ON CAD                       | DBT 06/24/97 |     | .XXXX | ±.0005                      |        |
|     |                                      |              |     |       | ±1/2"                       |        |

|   |  |       |              |
|---|--|-------|--------------|
|  <b>Regal Beloit America, Inc.</b> |  | DRAWN | ADH 02/19/74 |
|   |  | CHK   | WRK 02/20/74 |
|   |  | APPD  | JCW 02/20/74 |
| TITLE   |  | SCALE | 1=1          |
| EXTERNAL WIRING DIAGRAM<br>TYPE "K" W/O PROTECTOR   |  | REF   |              |
| MAT'L.  |  | FMF   |              |
| DECAL - 004018  |  | PREV  |              |

|  |  |      |          |          |      |             |      |
|--|--|------|----------|----------|------|-------------|------|
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|  |  | DIST | BRF-NLV  |          | A    | 005018-01   | 21   |



**CERTIFICATION DATA SHEET**

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

**CATALOG #:** 131539.00

**CONN. DIAGRAM:** 005018.01

**OUTLINE:** 035371-1050

**MOUNTING:** F1 ONLY

**WINDING #:** K8450 DR 2 A

**TYPICAL MOTOR PERFORMANCE DATA**

| HP | kW   | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|--------|
| 5  | 3.70 | 1800      | 1740     | 184TC | DP        | H        | L      |

| PH | Hz | VOLTS   | AMPS  | START TYPE      | DUTY       | INSL | S.F. | AMB°C |
|----|----|---------|-------|-----------------|------------|------|------|-------|
| 1  | 60 | 208-230 | 23-21 | ACROSS THE LINE | CONTINUOUS | F4   | 1.15 | 40    |

| FULL LOAD EFF: | 83 | 3/4 LOAD EFF: | 81.9 | 1/2 LOAD EFF: | 77.2 | GTD. EFF |                   | ELEC. TYPE |  |
|----------------|----|---------------|------|---------------|------|----------|-------------------|------------|--|
| FULL LOAD PF:  | 94 | 3/4 LOAD PF:  | 93.5 | 1/2 LOAD PF:  | 89.6 | 80       | CAP START CAP RUN |            |  |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE      | B.D. TORQUE      | F.L. RISE°C |
|-------------|-------------------|------------------|------------------|-------------|
| 15 LB-FT    | 138               | 41.1 LB-FT 242 % | 32.5 LB-FT 191 % | 72          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2   | MAX. WK^2   | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|--------------|-------------|-----------------|---------------|-------------------|
| 62 dBA                 | 72 dBA      | 0.46 LB-FT^2 | 0.5 LB-FT^2 | 10 SEC.         | 0             | 84 LBS.           |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT                  |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|------------------------|
| C-FACE          | STANDARD         | ROUND      | 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    |

\*  
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|                                  |
|----------------------------------|
| <b>INVERTER TORQUE:</b> NONE     |
| <b>INV. HP SPEED RANGE:</b> NONE |
| <b>ENCODER:</b> NONE             |
| NONE NONE                        |
| NONE NONE PPR                    |
| <b>BRAKE:</b> NONE NONE          |
| NONE P/N NONE                    |
| NONE NONE                        |
| NONE FT-LB NONE V NONE HZ        |

