

PRODUCT INFORMATION PACKET



Model No: 128010.00
Catalog No: 128010.00
SCR Motor, 2 HP, 180 V, 1750 RPM, K145TC Frame, TEFC



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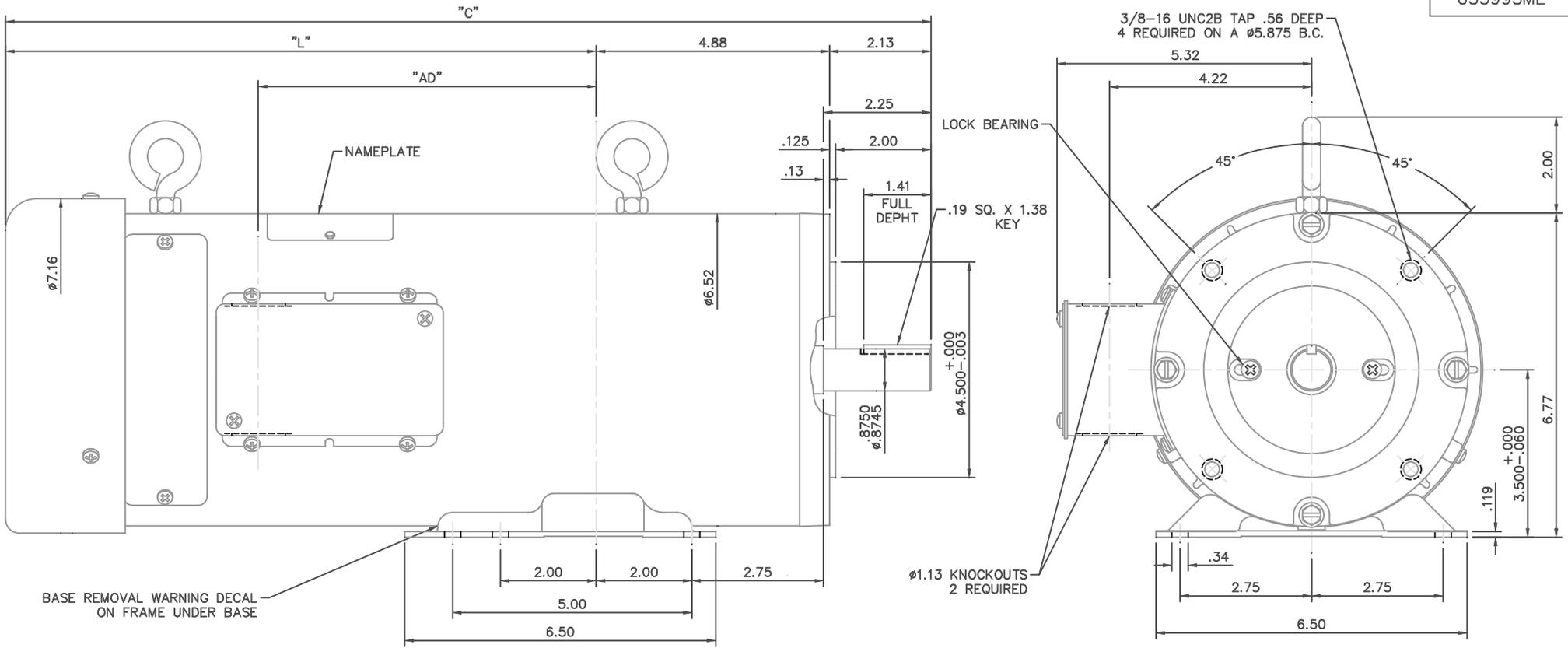
Nameplate Specifications

| | | | |
|----------------------------|------------------------------------|------------------------|----------------------|
| Output HP | 2 Hp | Output KW | 1.5 kW |
| Voltage | 180 V | Speed | 1750 rpm |
| Service Factor | 1.0 | Frame | K145TC |
| Enclosure | Totally Enclosed Fan Cooled | Thermal Protection | No Protection |
| Efficiency | 78.8 % | Ambient Temperature | 40 °C |
| Current | 9.5 A | Duty | Continuous |
| Insulation Class | H | Drive End Bearing Size | 6205 |
| Opp Drive End Bearing Size | 6203 | UL | Recognized |
| CSA | Y | CE | N |

Technical Specifications

| | | | |
|-----------------|--------------------|--------------------|---------------------|
| Rotation | Reversible | Mounting | Rigid C base |
| Overall Length | 19.34 in | Frame Length | 14.63 in |
| Shaft Diameter | 0.875 in | Shaft Extension | 2.13 in |
| Torque | 72 LB-IN | | |
| Outline Drawing | 033993-K140 | Connection Drawing | 00531901 |

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NOTES:

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

| J140 | 18.84 | 11.84 | 6.56 | T140 | 22.34 | 15.34 | 10.06 | | | | | | | | | | | | |
|--|-------|-------|------|-------|-------|-------|-------|----|---|-----|---------|-----|-------|--------------------------------|--------|----------------------|--|------------------|--|
| H140 | 18.34 | 11.34 | 6.06 | R140 | 21.84 | 14.84 | 9.56 | 06 | REDRAWN PER ECR 73353 EFF. IMMED. | CRK | 8/29/01 | CJK | DEC. | INCHES | | | | | |
| G140 | 17.84 | 10.84 | 5.56 | P140 | 21.34 | 14.34 | 9.06 | 05 | REM'D DRILLED AND TAPPED HOLE PER CN 99-821 | CJK | 6/15/99 | WMM | .XX | ±.1 | | | | | |
| F140 | 17.34 | 10.34 | 5.06 | N140 | 20.84 | 13.84 | 8.56 | | EFF. IMMED. | | | | .XX | ±.03 | | | | | |
| E140 | 16.84 | 9.84 | 4.56 | M140 | 20.34 | 13.34 | 8.06 | 04 | ADDED DRILL AND TAP HOLE PER ECR 55278 | MLS | 7/10/96 | | .XXX | ±.005 | | | | | |
| D140 | 16.34 | 9.34 | 4.06 | L140 | 19.84 | 12.84 | 7.56 | | EFF. IMMED. | | | | .XXXX | ±.0005 | | | | | |
| C140 | 15.84 | 8.84 | 3.56 | K140 | 19.34 | 12.34 | 7.06 | | | | | | CHK | ANG | ±7'30" | | | | |
| FRAME | "C" | "L" | "AD" | FRAME | "C" | "L" | "AD" | | | | | | RFP | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | TO TOLERANCES UNLESS SPECIFIED | | MARATHON ELECTRIC | | DRAWN PG 9/12/91 | |
| | | | | | | | | | | | | | | .XX ±.03 | | TITLE | | CHK | |
| | | | | | | | | | | | | | | .XXX ±.005 | | OUTLINE - 56 FRAME | | APPD JCW 9/12/91 | |
| | | | | | | | | | | | | | | .XXXX ±.0005 | | 140TC FACE AND BASE | | SCALE 1=2 | |
| | | | | | | | | | | | | | | CHK ANG ±7'30" | | TEFC- PMDC MOTOR | | REF 033945 | |
| | | | | | | | | | | | | | | RFP | | FINISH | | FMF C145D17FK3 | |
| | | | | | | | | | | | | | | DIST | | CAD FILE 033993ME | | REV. | |
| | | | | | | | | | | | | | | SIZE B | | DRAWING NO. 033993ME | | 06 | |



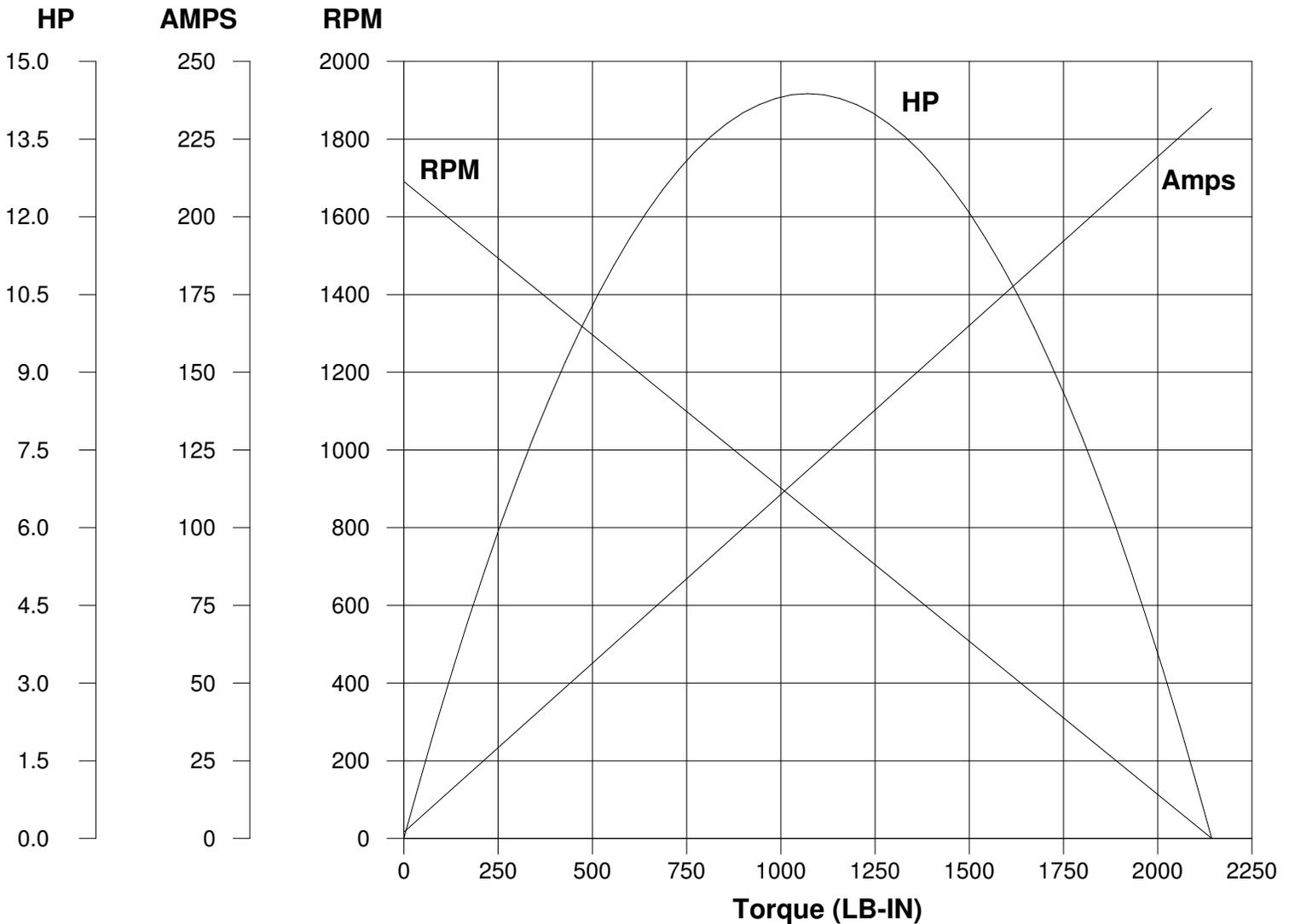
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

| | | | | TOLERANCES UNLESS SPECIFIED | |  Regal Beloit America, Inc. | DRAWN TJF 11/15/97 | | |
|--|--|---------------|------|-----------------------------|--------|--|-------------------------|-------------|------|
| | | | | DEC. | INCHES | | CHK | | |
| F | CHG FROM LEESON TO RRX TEMPLATE AS PER ECR-0237142 | KVDG 09/19/24 | DS | .X | ±.1 | TITLE | EXTERNAL WIRING DIAGRAM | | |
| E | "MOTOR" WAS "ARMATURE", ECO-0163602 | IPG 3/14/19 | | .XX | ±.01 | | PMDC MOTOR | | |
| D | UPDATED TO MAKE IT GENERIC, ECO-0163547 | IPG 3/13/19 | | .XXX | ±.005 | | SCALE 1=2 | | |
| 01 | REDRAWN ON CAD. REVISED NOTES. | SJB 9/20/2005 | | .XXXX | ±.0005 | MAT'L. | REF | | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2" | FINISH | FMF | | |
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| | | | DIST | | | | A | 005319.01 | F |

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

| | | |
|------------------------------|------------------------------|-----------------------|
| Model No. <u>C145D17FK3A</u> | Catalog No. <u>128010.00</u> | |
| HP <u>2.000</u> | RPM <u>1750</u> | DC Volts <u>180.0</u> |
| F.F. <u>1.40</u> | Encl <u>TEFC</u> | Type <u>DF</u> |
| Max. Amb. <u>40.0 Deg C</u> | Insul. <u>H</u> | Frame <u>K145TC</u> |
| | | N.P. FLA <u>9.50</u> |
| | | S.F. <u>1.00</u> |
| | | Duty <u>CONT</u> |



Ra 0.5000 Ohms
La 10.80 mHenrys
Ja 18.13 LB-IN²
Ke 107.2 V/KRPM

Kt 9.061 LB-IN/AMP
Imax 82.9 AMPS Allowed
FL Torque 72.00 LB-IN
FL EFF 78.80 %

Winding W- D6322-1 **Prepared by** V. Boehlen **Date** 05-02-2005