

PRODUCT INFORMATION PACKET



Model No: 108092.00
Catalog No: 108092.00
SCR Motor, 1.50 HP, 180 V, 1750 RPM, S56C Frame, TEFC



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Nameplate Specifications

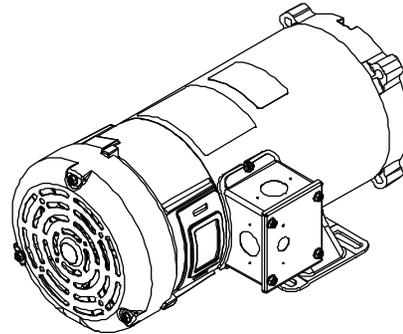
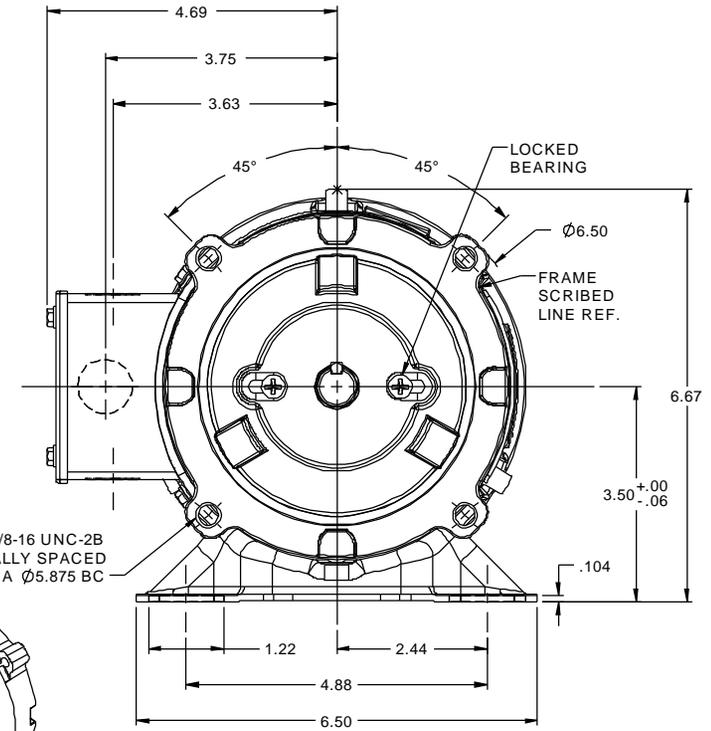
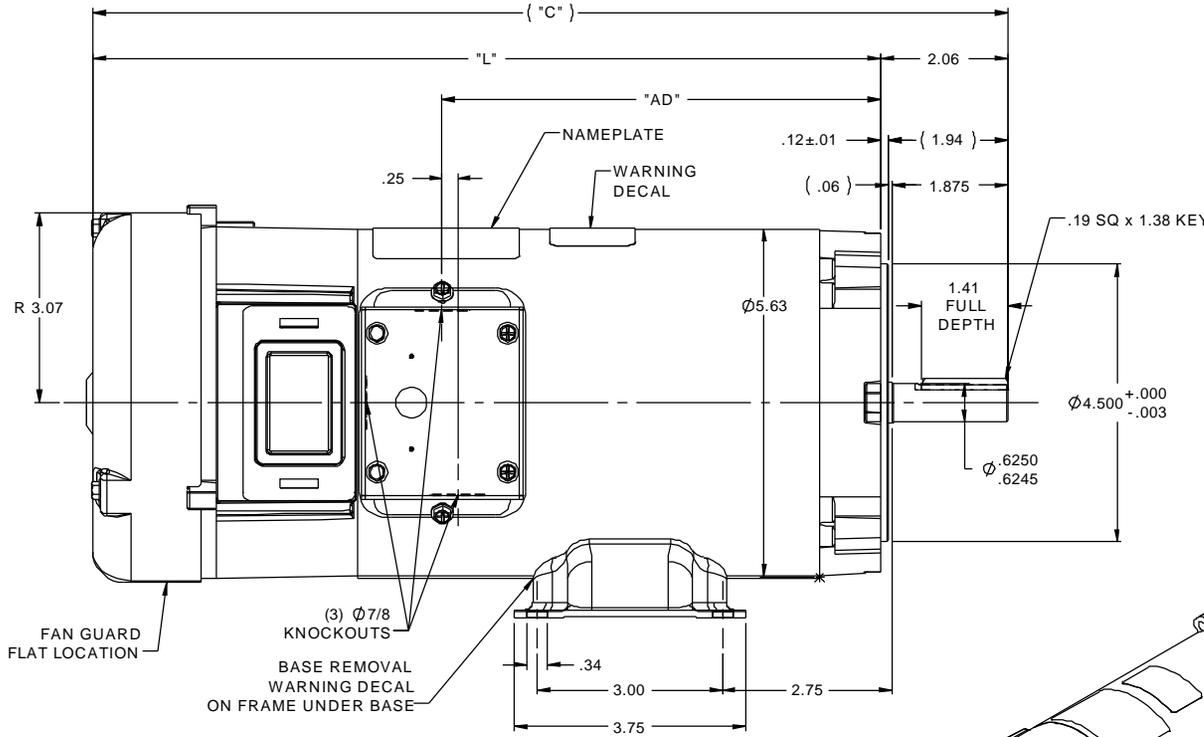
| | | | |
|----------------------------|------------------------------------|------------------------|----------------------|
| Output HP | 1.50 Hp | Output KW | 1.1 kW |
| Voltage | 180 V | Speed | 1750 rpm |
| Service Factor | 1.0 | Frame | S56C |
| Enclosure | Totally Enclosed Fan Cooled | Thermal Protection | No Protection |
| Efficiency | 86.5 % | Ambient Temperature | 40 °C |
| Current | 7.6 A | Duty | Continuous |
| Insulation Class | H | Drive End Bearing Size | 6203 |
| Opp Drive End Bearing Size | 6203 | UL | Recognized |
| CSA | Y | CE | N |

Technical Specifications

| | | | |
|-----------------|----------------------|--------------------|---------------------|
| Rotation | Reversible | Mounting | Rigid C base |
| Overall Length | 16.82 in | Frame Length | 9.47 in |
| Shaft Diameter | 0.625 in | Shaft Extension | 2.06 in |
| Torque | 54 LB-IN | | |
| Outline Drawing | 031879-108092 | Connection Drawing | 00531901 |

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- NOTES:
 1) MAXIMUM FACE RUNOUT .004 T.I.R.
 2) MAXIMUM PILOT ECCENTRICITY .004 T.I.R.
 3) PERMISSIBLE SHAFT RUNOUT .002 T.I.R.
 4) GASKETS THROUGHOUT

| | | | | | | |
|--------------------|------------|------------|-------------|--------------|-------------|------------|
| 109100.00 | 15.82 | 13.76 | 8.10 | 90 | 3/4 | 1140 |
| 109099.00 | 14.32 | 12.26 | 6.60 | 90 | 1/2 | 1140 |
| 109098.00 | 12.82 | 10.76 | 5.10 | 90 | 1/3 | 1140 |
| 108265.00 | 15.32 | 13.26 | 7.60 | 180 | 1 1/2 | 2500 |
| 108092.00 | 16.82 | 14.76 | 9.10 | 180 | 1 1/2 | 1750 |
| 108023.00 | 14.82 | 12.76 | 7.10 | 180 | 1 | 1750 |
| 108022.00 | 14.82 | 12.76 | 7.10 | 90 | 1 | 1750 |
| 108021.00 | 13.82 | 11.76 | 6.10 | 180 | 1 | 2500 |
| 108020.00 | 13.32 | 11.26 | 5.60 | 90 | 1 | 2500 |
| 108019.00 | 13.82 | 11.76 | 6.10 | 180 | 3/4 | 1750 |
| 108018.00 | 13.82 | 11.76 | 6.10 | 90 | 3/4 | 1750 |
| 108017.00 | 12.82 | 10.76 | 5.10 | 180 | 3/4 | 2500 |
| 108016.00 | 12.82 | 10.76 | 5.10 | 90 | 3/4 | 2500 |
| 108015.00 | 12.82 | 10.76 | 5.10 | 180 | 1/2 | 1750 |
| 108014.00 | 12.82 | 10.76 | 5.10 | 90 | 1/2 | 1750 |
| CATALOG No. | "C" | "L" | "AD" | VOLTS | H.P. | RPM |

| | | | | | | | | | |
|----|--|---------------|-----------------------------|------------|-----|--|--|--|--|
| 06 | CHANGED .06 & 1.94 DIMS TO REF., ISAAC 12-0984 | IPG 1/30/2013 | TOLERANCES UNLESS SPECIFIED | | | | | | |
| 05 | ADDED NOTE ABOUT FAN GUARD LOCATION, ISAAC 09-4813 | IPG 12/4/2009 | DEC INCHES | | | | | | |
| 04 | CAT. # 108092.00: "C" WAS 17.32, "L" WAS 15.26, "AD" WAS 9.60, ISAAC 09-1828 | IPG 5/14/2009 | X ±.1 | | | | | | |
| 03 | ADDED DATA FOR VARIOUS CAT. NUMBERS, COMPLETED | IPG 9/15/2008 | XXX ±.005 | | | | | | |
| | TABLE | | XXXX ±.0005 | | | | | | |
| NO | REVISION | BY & DATE | CHK LANG ±1/2° | FINISH | | | | | |
| | THIRD ANGLE PROJECTION | | RFP | PREV | | | | | |
| | | | NETWORK FILE NAME | 031879 | | | | | |
| | | | SIZE | DRAWING NO | REV | | | | |
| | | | B | 031879 | 06 | | | | |



ELECTRIC MOTORS
 GEARMOTORS
 AND DRIVES

DRAWN RWS 1/8/08
 CHK IPG 1/9/08
 APPR

TITLE OUTLINE
 48 FRAME DC - S56C MOUNT
 SCALE 1:2
 REF 031189.00
 FMF 108022.75
 PAGE OF



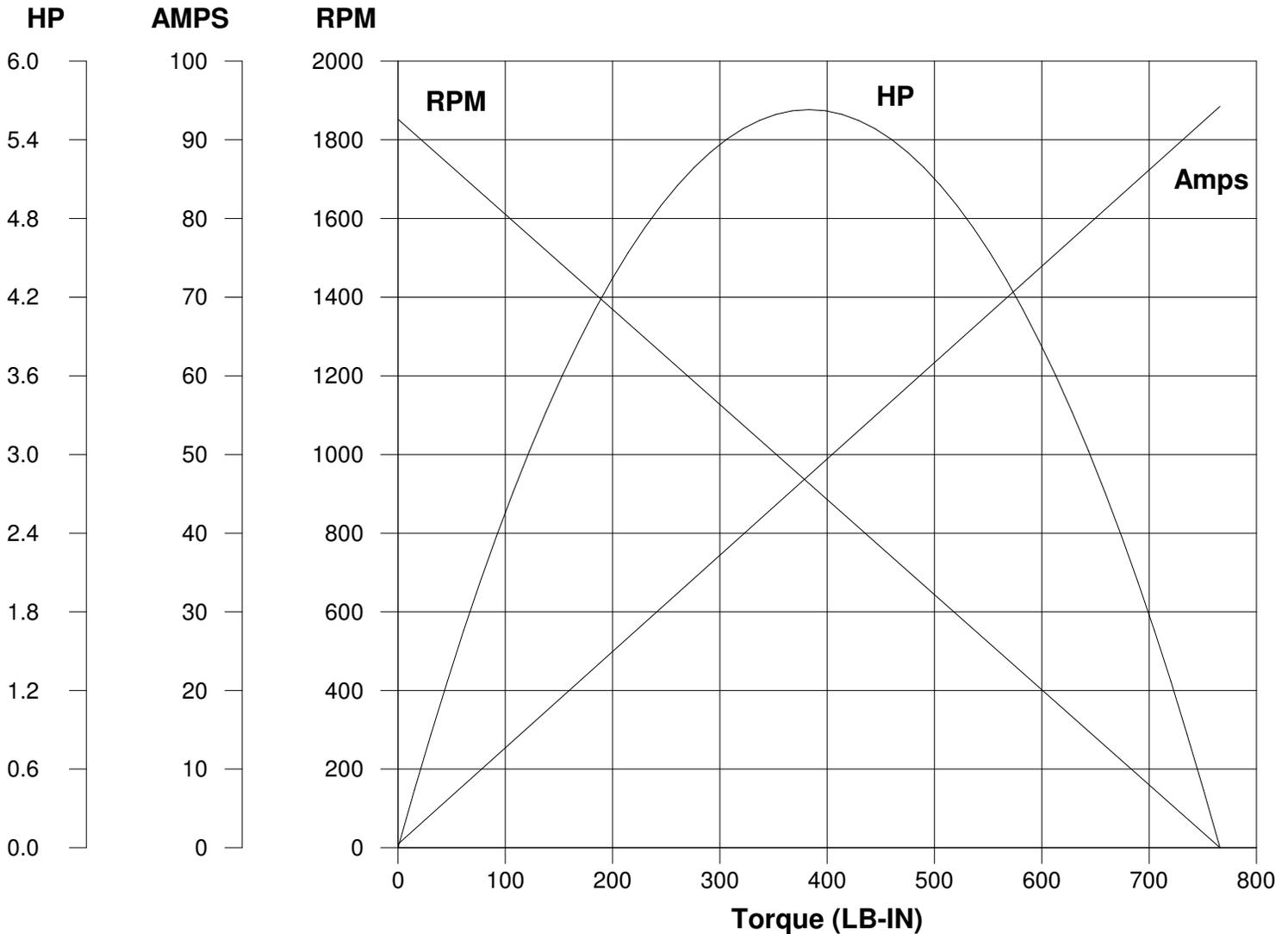
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

| NO. | REVISION | BY & DATE | CHK | 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 PMDC MOTOR MAT'L. FINISH | APPD POW 11/15/97 | | |
| E | "MOTOR" WAS "ARMATURE", ECO-0163602 | IPG 3/14/19 | | .XX | ±.01 | | SCALE 1=2 | | |
| D | UPDATED TO MAKE IT GENERIC, ECO-0163547 | IPG 3/13/19 | | .XXX | ±.005 | | REF | | |
| 01 | REDRAWN ON CAD. REVISED NOTES. | SJB 9/20/2005 | | .XXXX | ±.0005 | | FMF | | |
| | | | | ANG | ±1/2" | | PREV | | |
| 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 | 00531901 | SIZE A | DRAWING NO. 005319.01 | REV. F |
| | | | | DIST | 4 of 5 | | | | |

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

| | | |
|-----------------------------|------------------------------|-----------------------|
| Model No. <u>C4D17FK10</u> | Catalog No. <u>108092.00</u> | |
| HP <u>1.500</u> | RPM <u>1750</u> | DC Volts <u>180.0</u> |
| F.F. <u>1.38</u> | Encl <u>TEFC</u> | Type <u>DF</u> |
| Max. Amb. <u>40.0 Deg C</u> | Insul. <u>H</u> | Frame <u>S56C</u> |
| | | N.P. FLA <u>7.60</u> |
| | | S.F. <u>1.00</u> |
| | | Duty <u>Cont</u> |



| | |
|--|---|
| Ra <u>1.1000</u> Ohms La <u>22.50</u> mHenrys Ja <u>20.80</u> LB-IN ² Ke <u>96.67</u> V/KRPM | Kt <u>8.171</u> LB-IN/AMP Imax <u>68.8</u> AMPS Allowed FL Torque <u>54.00</u> LB-IN FL EFF <u>86.50</u> % |
|--|---|

Winding W- D56275-1 Prepared by S. Bernhardt Date 09-09-2009