# PRODUCT INFORMATION PACKET

Model No: 108014.00
Catalog No: 108014.00
SCR Motor, 0.50 HP, 90 V, 1750 RPM, S56C Frame, TEFC



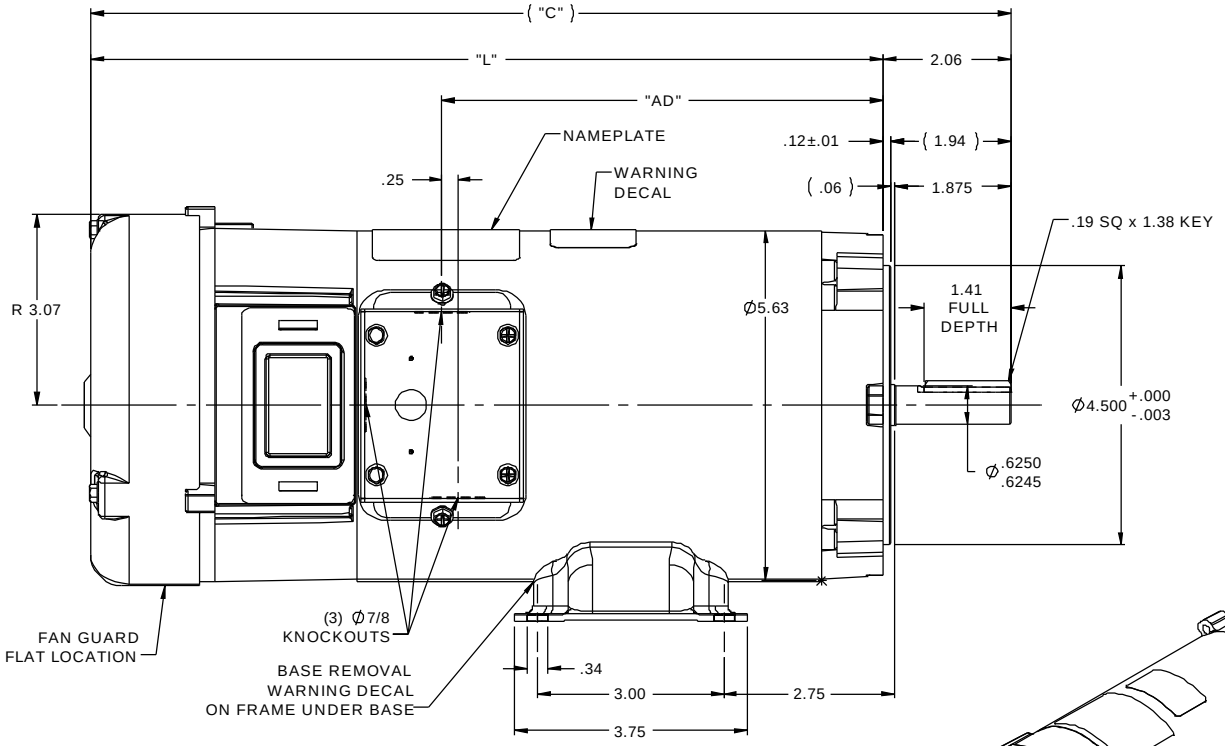
RegalRexnord

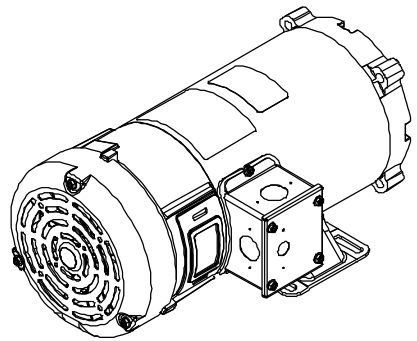
## Nameplate Specifications

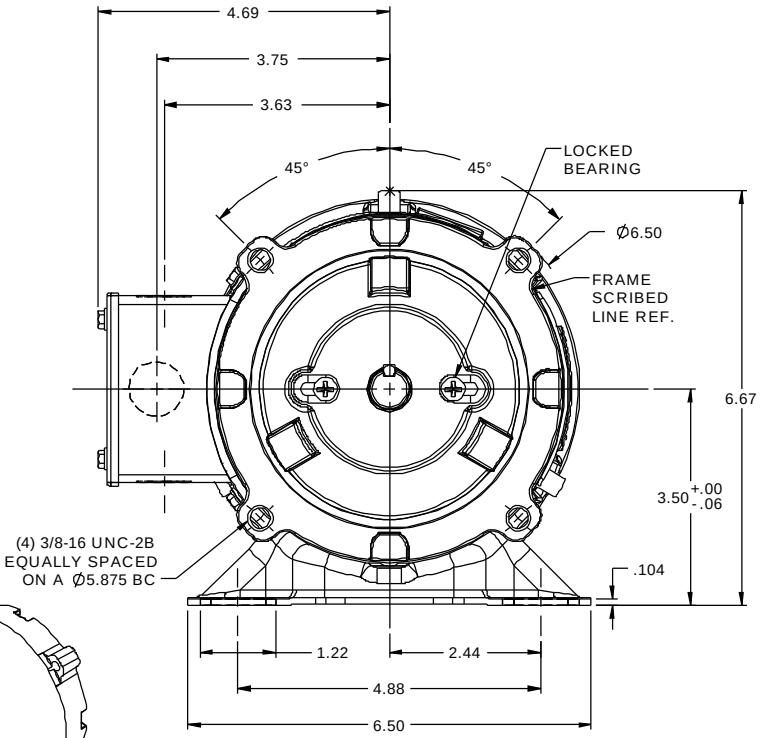
| | | | |
|---|---|---|---|
| Output HP | **0.50 Hp** | Output KW | **0.37 kW** |
| Voltage | **90 V** | Current | **5.0 A** |
| Speed | **1750 rpm** | Service Factor | **1** |
| Efficiency | **78.3 %** | Duty | **Continuous** |
| Insulation Class | **F** | Frame | **S56C** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Ambient Temperature | **40 °C** | 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 | **12.82 in** | Frame Length | **5.47 in** |
| Shaft Diameter | **0.625 in** | Shaft Extension | **2.06 in** |
| Torque | **18 LB-IN** | | |
| Outline Drawing | **031879-108014** | Connection Drawing | **00531901** |






| CATALOG No. | "C" | "L" | "AD" | VOLTS | H.P. | RPM |
|---|---|---|---|---|---|---|
| 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 |

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

| NO | REVISION | BY & DATE | CHK |
|---|---|---|---|
| 06 | CHANGED .06 & 1.94 DIMS TO REF., ISAAC 12-0984 | IPG 1/30/2013 | |
| 05 | ADDED NOTE ABOUT FAN GUARD LOCATION, ISAAC 09-4813 | IPG 12/4/2009 | |
| 04 | CAT. # 108092.00: "C" WAS 17.32, "L" WAS 15.26, "AD" WAS 9.60, ISAAC 09-1828 | IPG 5/14/2009 | |
| 03 | ADDED DATA FOR VARIOUS CAT. NUMBERS, COMPLETED TABLE | IPG 9/15/2008 | |

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

THIRD ANGLE PROJECTION

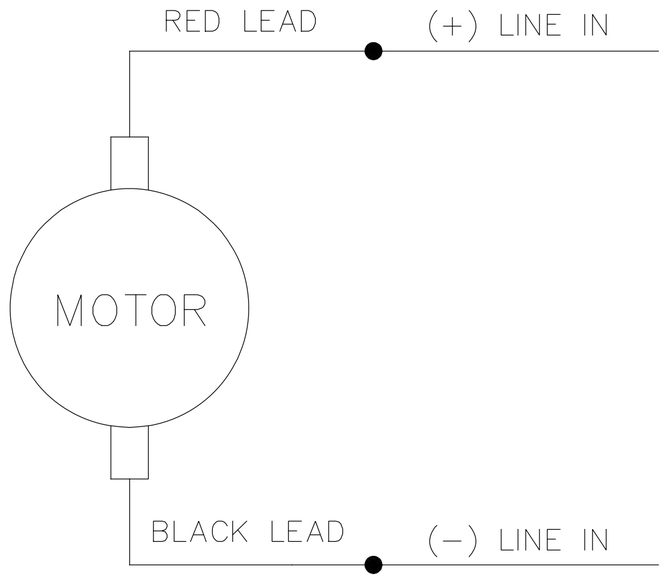
LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE OUTLINE
48 FRAME DC - S56C MOUNT
MAT'L
FINISH
RFP
PREV
NETWORK FILE NAME 031879

DRAWN RWS 1/8/08
CHK IPG 1/9/08
APPR
SCALE 1:2
REF 031189.00
FMF 108022.75
PAGE OF

SIZE B
DRAWING NO 031879
REV 06

005319.01




CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR

TO REVERSE ROTATION INTERCHANGE LINE LEADS

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| E | "MOTOR" WAS "ARMATURE", ECO−0163602 | IPG 3/14/19 | |
| D | UPDATED TO MAKE IT GENERIC, ECO−0163547 | IPG 3/13/19 | |
| 01 | REDRAWN ON CAD. REVISED NOTES. | SJB 9/20/2005 | |

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

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE: EXTERNAL WIRING DIAGRAM PMDC MOTOR

MAT'L.

FINISH

| | |
|---|---|
| DRAWN | TJF 11/15/97 |
| CHK | |
| APPD | POW 11/15/97 |
| SCALE | 1=2 |
| REF | |
| FMF | |
| PREV | |



RFP

DIST

CAD FILE 00531901

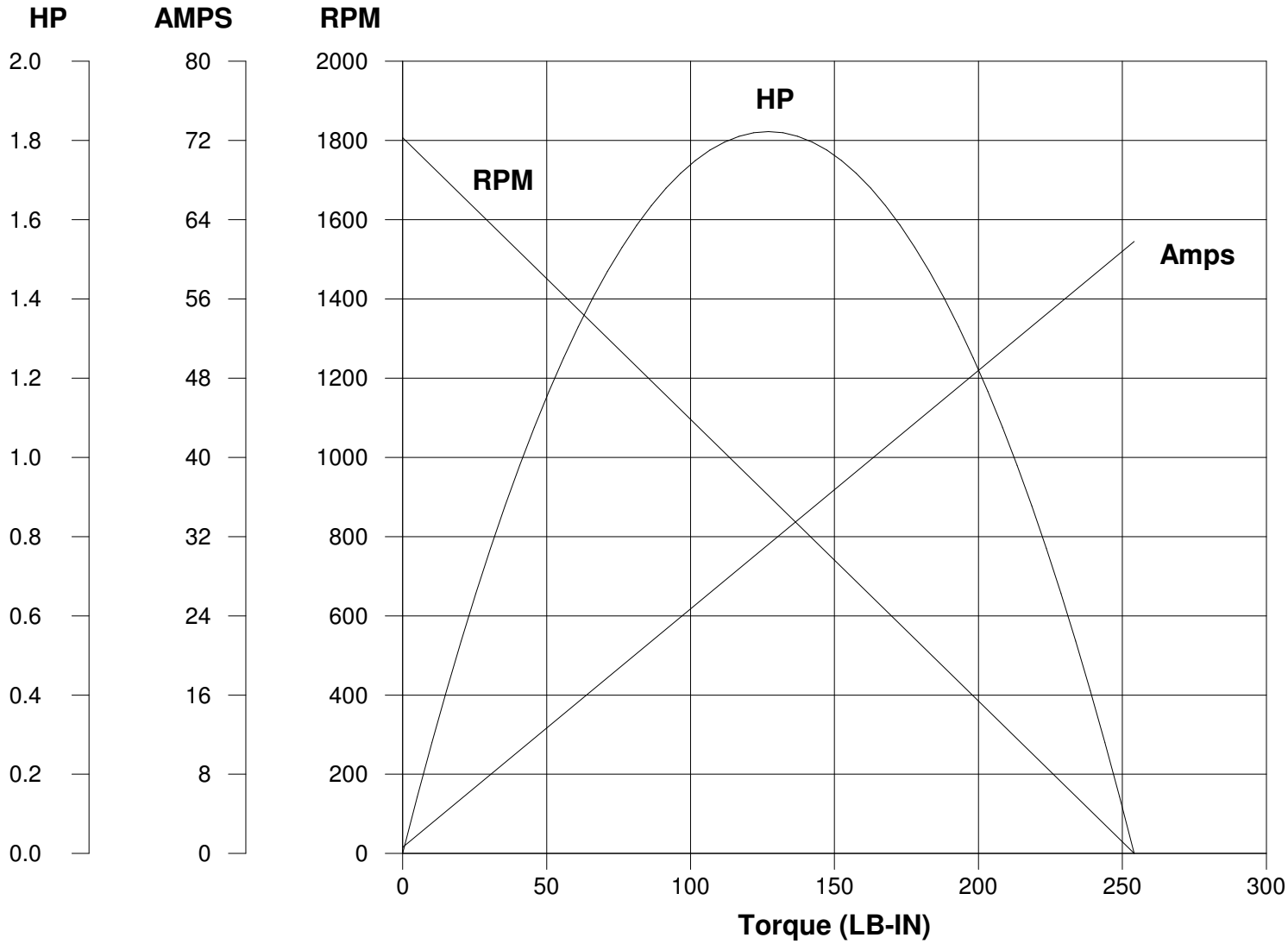
| SIZE | DRAWING NO. | REV. |
|---|---|---|
| A | 005319.01 | E |

# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE
## FOR
## DIRECT CURRENT PERMANENT MAGNET MOTOR

**Model No.** C4D17FK1 **Catalog No.** 108014.00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **HP** | 0.500 | **RPM** | 1750 | **DC Volts** | 90.0 | **N.P. FLA** | 5.00 |
| **F.F.** | 1.38 | **Encl** | TEFC | **Type** | DF | **S.F.** | 1.00 |
| **Max. Amb.** | 40.0 Deg C | **Insul.** | F | **Frame** | S56C | **Duty** | Cont |




| | | | | | |
|---|---|---|---|---|---|
| **Ra** | 1.0200 | Ohms | **Kt** | 4.156 | LB-IN/AMP |
| **La** | 10.60 | mHenrys | **Imax** | 55.0 | AMPS Allowed |
| **Ja** | 7.200 | LB-IN^2 | **FL Torque** | 18.00 | LB-IN |
| **Ke** | 49.17 | V/KRPM | **FL EFF** | 78.30 | % |

**Winding W-** D56216-1 **Prepared by** S. Bernhardt **Date** 05-05-2009

Brush K254C