

# PRODUCT INFORMATION PACKET



Model No: 109099.00  
Catalog No: 109099.00  
SCR Motor, 0.50 HP, 90 V, 1140 RPM, S56C Frame, TEFC



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**Nameplate Specifications**

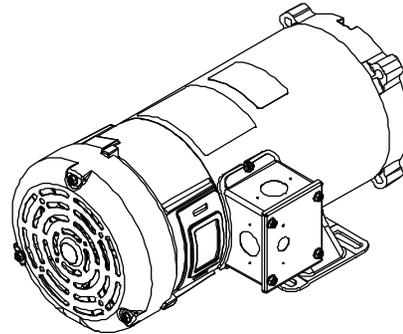
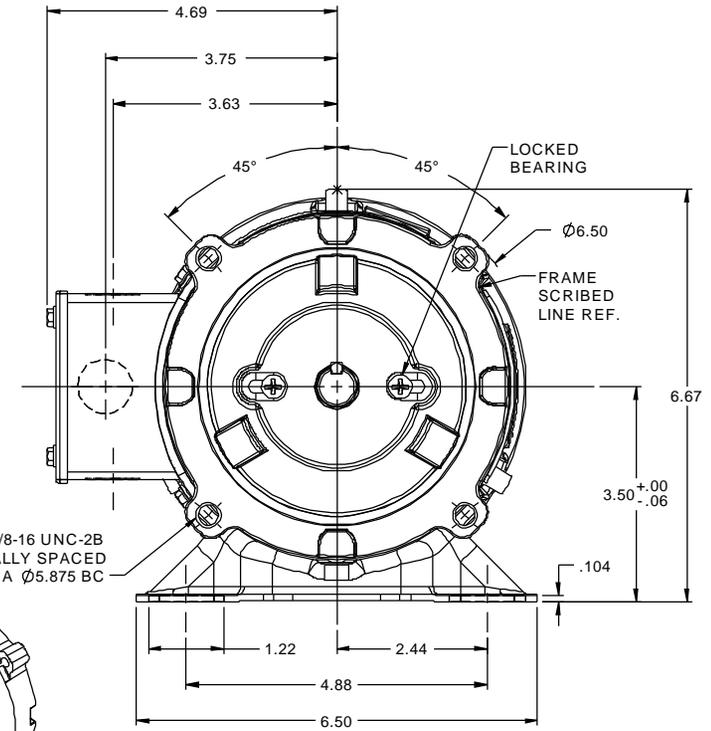
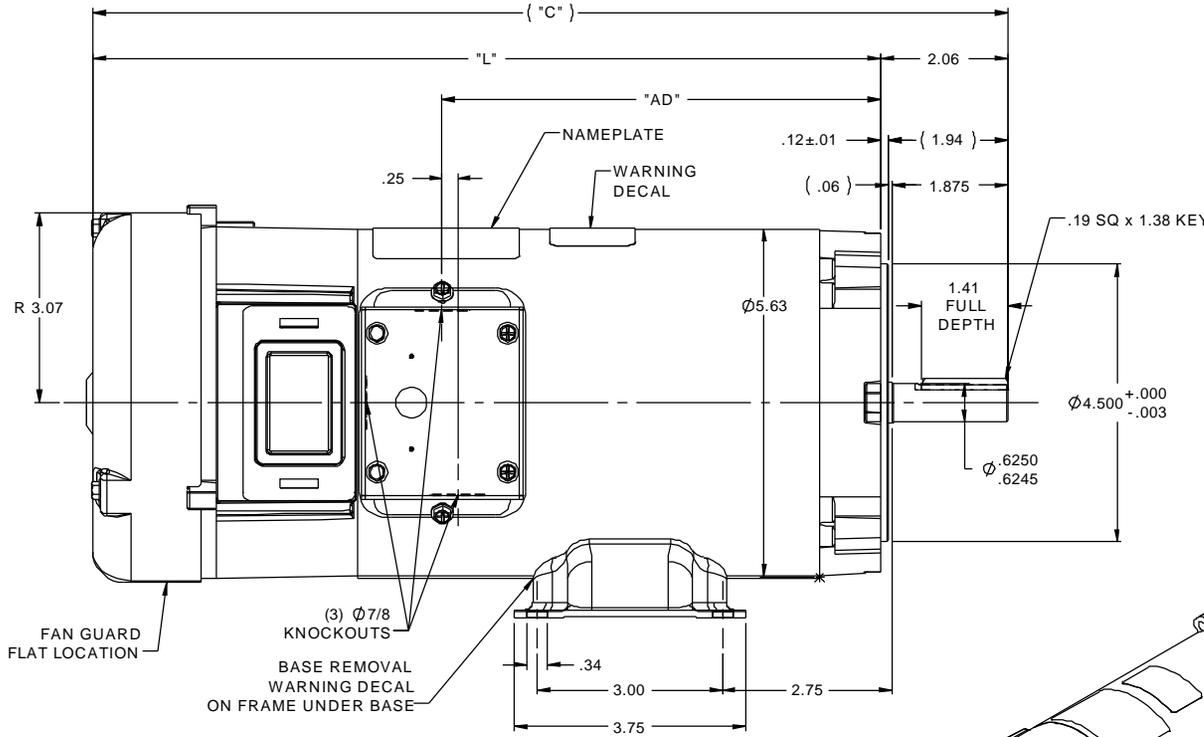
Output HP	0.50 Hp	Output KW	0.37 kW
Voltage	90 V	Speed	1140 rpm
Service Factor	1.0	Frame	S56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	78 %	Ambient Temperature	40 °C
Current	5.0 A	Duty	Continuous
Insulation Class	F	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

**Technical Specifications**

Rotation	Reversible	Mounting	Rigid C base
Overall Length	14.32 in	Frame Length	6.97 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Torque	27.6 LB-IN		
Connection Drawing	00531901	Outline Drawing	031879-109099

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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
<b>CATALOG No.</b>	<b>"C"</b>	<b>"L"</b>	<b>"AD"</b>	<b>VOLTS</b>	<b>H.P.</b>	<b>RPM</b>

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			TITLE OUTLINE			
	TABLE		XXXX ±.0005			48 FRAME DC - S56C MOUNT			
NO	REVISION	BY & DATE	CHK LANG ±1/2°			FINISH			
	THIRD ANGLE PROJECTION		RFP			PREV			
			NETWORK FILE NAME	031879					
			SIZE	B		DRAWING NO	031879		REV
									06



ELECTRIC MOTORS  
 GEARMOTORS  
 AND DRIVES

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

SCALE 1:2  
 REF 031189.00  
 FMF 108022.75

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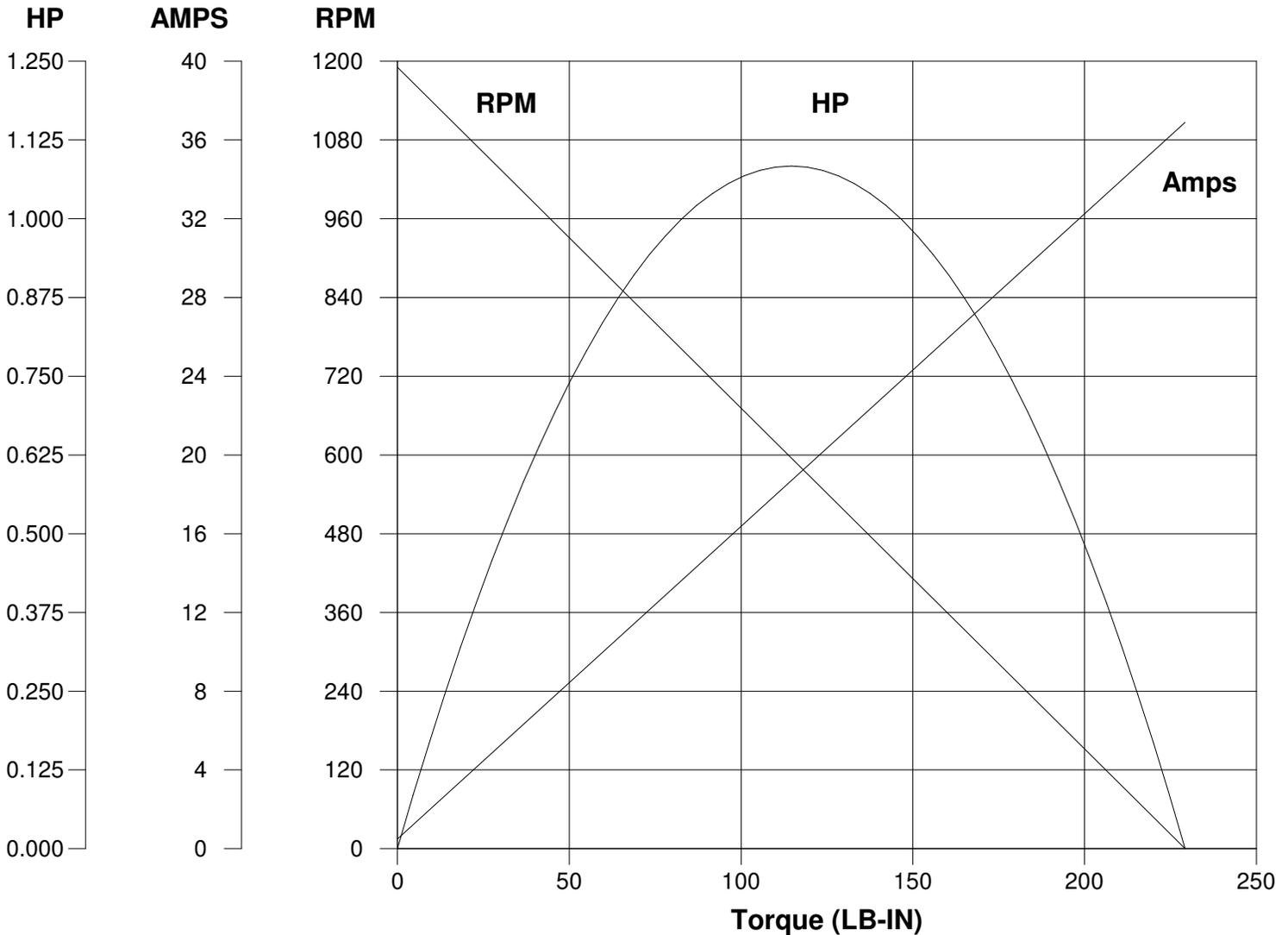
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR  
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

				TOLERANCES UNLESS SPECIFIED		 <b>Regal Beloit America, Inc.</b>	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		
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	DRAWING NO.	REV.
			DIST				A	005319.01	F
						<b>4 of 5</b>			

# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. <u>C4D11FK6</u>	Catalog No. <u>109099.00</u>	
HP <u>0.500</u>	RPM <u>1140</u>	DC Volts <u>90.0</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>F</u>	Frame <u>S56C</u>
		N.P. FLA <u>5.00</u>
		S.F. <u>1.00</u>
		Duty <u>CONT</u>



<b>Ra</b> <u>1.4000</u> Ohms <b>La</b> <u>16.70</u> mHenrys <b>Ja</b> <u>12.00</u> LB-IN <sup>2</sup> <b>Ke</b> <u>74.44</u> V/KRPM	<b>Kt</b> <u>6.292</u> LB-IN/AMP <b>Imax</b> <u>55.0</u> AMPS Allowed <b>FL Torque</b> <u>27.60</u> LB-IN <b>FL EFF</b> <u>78.00</u> %
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Winding W- D56250-1      Prepared by S. Bernhardt      Date 05-19-2009