

# PRODUCT INFORMATION PACKET



Model No: 109105.00  
Catalog No: 109105.00  
Low Voltage Motor, 1.50 HP, 48 V, 1800 RPM, S56CZ Frame, TEFC



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**Nameplate Specifications**

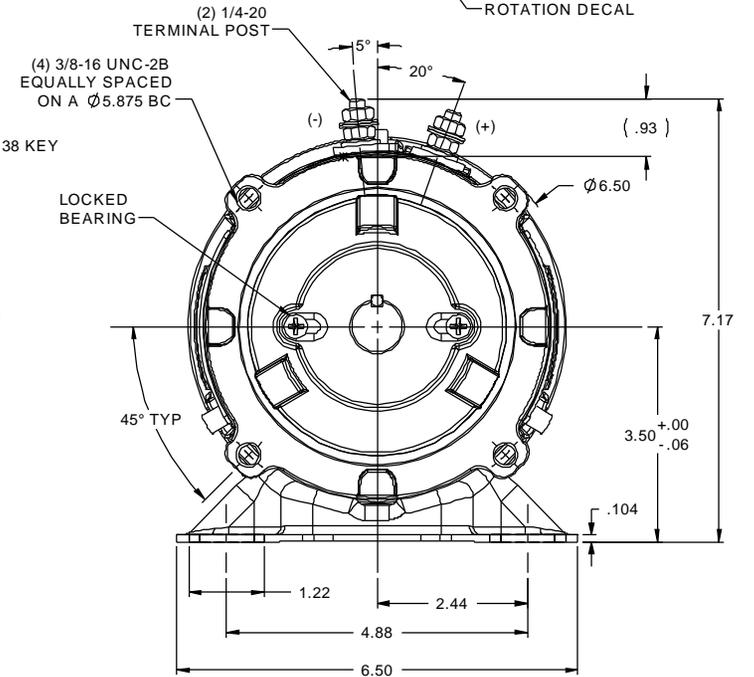
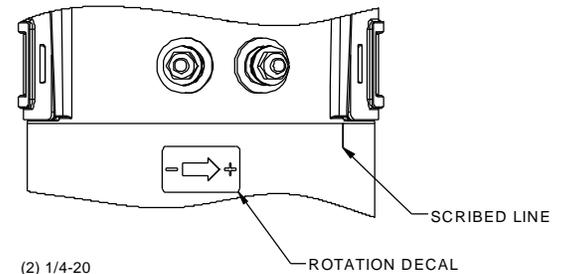
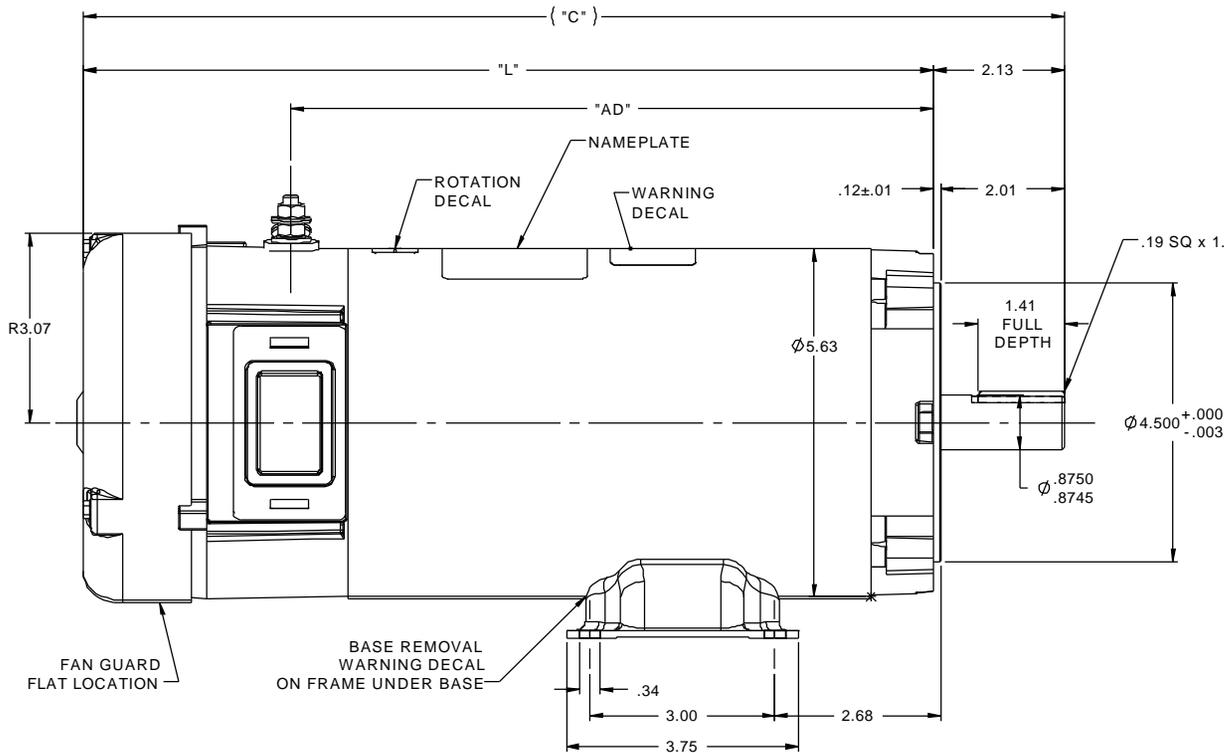
Output HP	1.50 Hp	Output KW	1.1 kW
Voltage	48 V	Speed	1800 rpm
Service Factor	1.0	Frame	S56CZ
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	81.4 %	Ambient Temperature	40 °C
Current	27.0 A	Duty	Continuous
Insulation Class	H	Drive End Bearing Size	6205
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

**Technical Specifications**

Rotation	Reversible	Mounting	Rigid C base
Overall Length	15.89 in	Frame Length	8.47 in
Shaft Diameter	0.875 in	Shaft Extension	2.13 in
Torque	52.5 LB-IN		
Outline Drawing	031935-109105	Connection Drawing	00531901

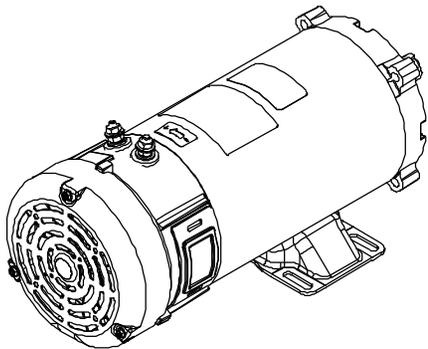
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- NOTES:  
 1) MAXIMUM FACE RUNOUT .004 T.I.R.  
 2) MAXIMUM PILOT ECCENTRICITY .004 T.I.R.  
 3) PERMISSIBLE SHAFT RUNOUT .002 T.I.R.  
 4) GASKETS THROUGHOUT.

109105.00	15.89	13.76	10.40	48	1 1/2	1800
109104.00	15.89	13.76	10.40	36	1 1/2	1800
CATALOG No.	"C"	"L"	"AD"	VOLTS	H.P.	RPM



		TOLERANCES UNLESS SPECIFIED		<b>LEESON</b> ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN RWS 4/6/09	
		DEC INCHES				CHK BC 4/6/09	
02	ADDED NOTE PER PFG REQUEST	JJM	10/18/2013	X	±.1	APPR	
01	ADDED NOTE ABOUT FAN GUARD FLAT LOCATION, ISAAC	IPG	12/10/2009	XX	±.03	SCALE 1:2	
	09-4813			XXX	±.005	REF 031886	
	RELEASED	RWS	4/6/2009	BC	XXXX ±.0005	FMF 109104.75	
NO	REVISION	BY	DATE	CHK	ANG ±1/2°	PAGE OF	
THIRD ANGLE PROJECTION				RFP		SIZE	DRAWING NO
				PREV		B	031935
				NETWORK FILE NAME 031935		REV	
						02	



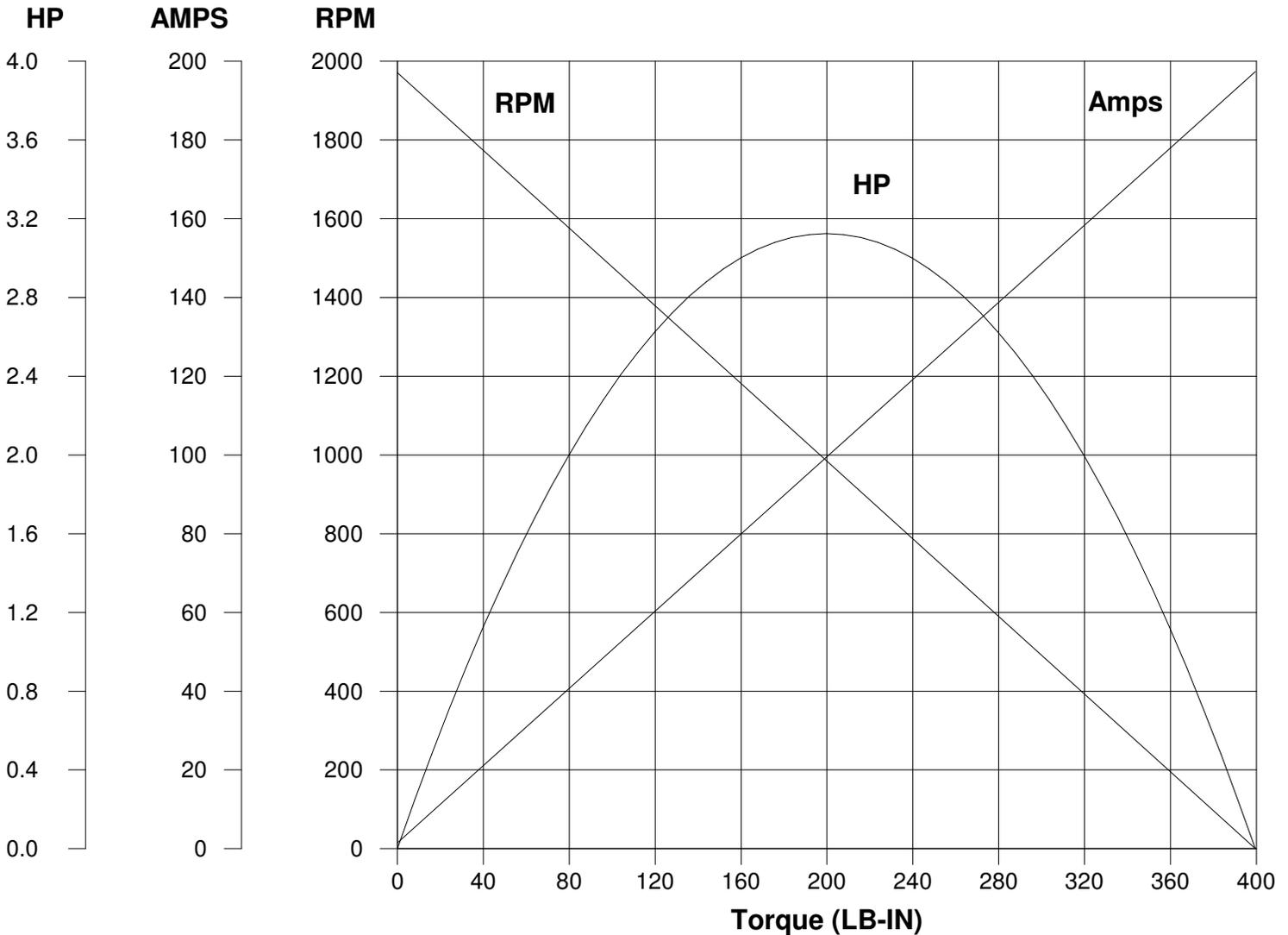
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR  
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN	TJF 11/15/97		
				DEC.	INCHES					
F	CHG FROM LEESON TO RRX TEMPLATE AS PER ECR-0237142	KVDG 09/19/24	DS	.X	±.1	 <b>Regal Beloit America, Inc.</b>	CHK			
E	"MOTOR" WAS "ARMATURE", ECO-0163602	IPG 3/14/19		.XX	±.01		TITLE	APPD	POW 11/15/97	
D	UPDATED TO MAKE IT GENERIC, ECO-0163547	IPG 3/13/19		.XXX	±.005		EXTERNAL WIRING DIAGRAM PMDC MOTOR	SCALE	1=2	
01	REDRAWN ON CAD. REVISED NOTES.	SJB 9/20/2005		.XXXX	±.0005		MAT'L.	REF		
				ANG	±1/2"		FMF			
							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	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>C4D18FK5</u>	Catalog No. <u>109105.00</u>	
HP <u>1.500</u>	RPM <u>1800</u>	DC Volts <u>48.0</u>
F.F. <u>1.00</u>	Encl <u>TEFC</u>	Type <u>DF</u>
Max. Amb. <u>40.0 Deg C</u>	Insul. <u>H</u>	Frame <u>S56CZ</u>
		N.P. FLA <u>27.00</u>
		S.F. <u>1.00</u>
		Duty <u>Cont</u>



<b>Ra</b> <u>0.1600</u> Ohms <b>La</b> <u>2.600</u> mHenrys <b>Ja</b> <u>16.80</u> LB-IN <sup>2</sup> <b>Ke</b> <u>24.17</u> V/KRPM	<b>Kt</b> <u>2.043</u> LB-IN/AMP <b>Imax</b> <u>235.7</u> AMPS Allowed <b>FL Torque</b> <u>52.50</u> LB-IN <b>FL EFF</b> <u>81.40</u> %
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Winding W- D56268-1      Prepared by S. Bernhardt      Date 05-22-2009