

PRODUCT INFORMATION PACKET



Model No: 109104.00
Catalog No: 109104.00
Low Voltage Motor, 1.50 HP, 36 V, 1800 RPM, S56CZ Frame, TEFC



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Nameplate Specifications

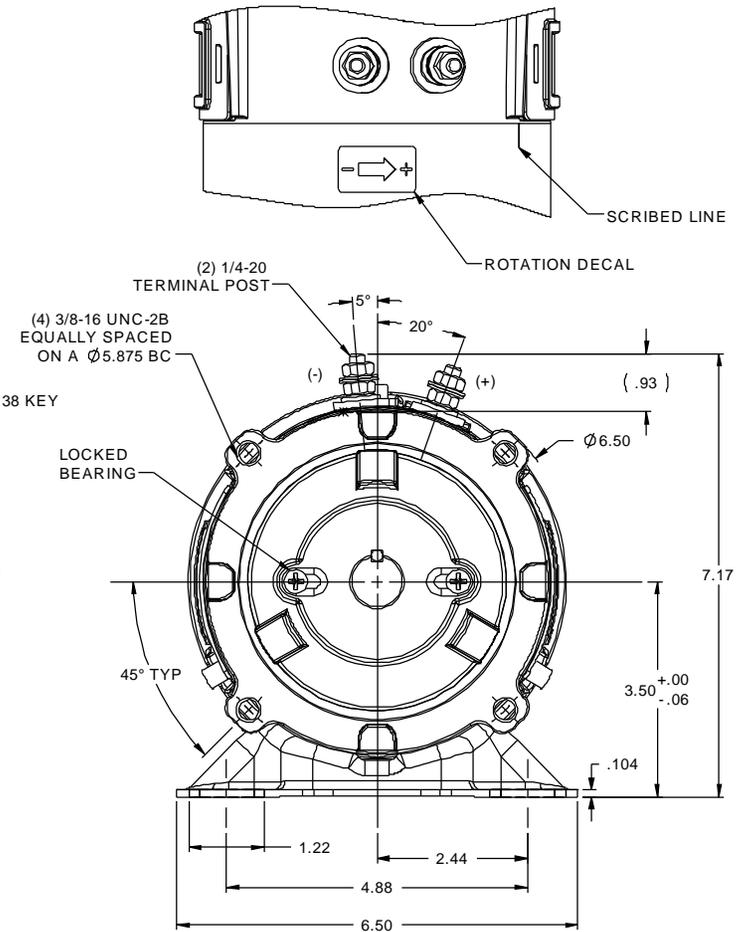
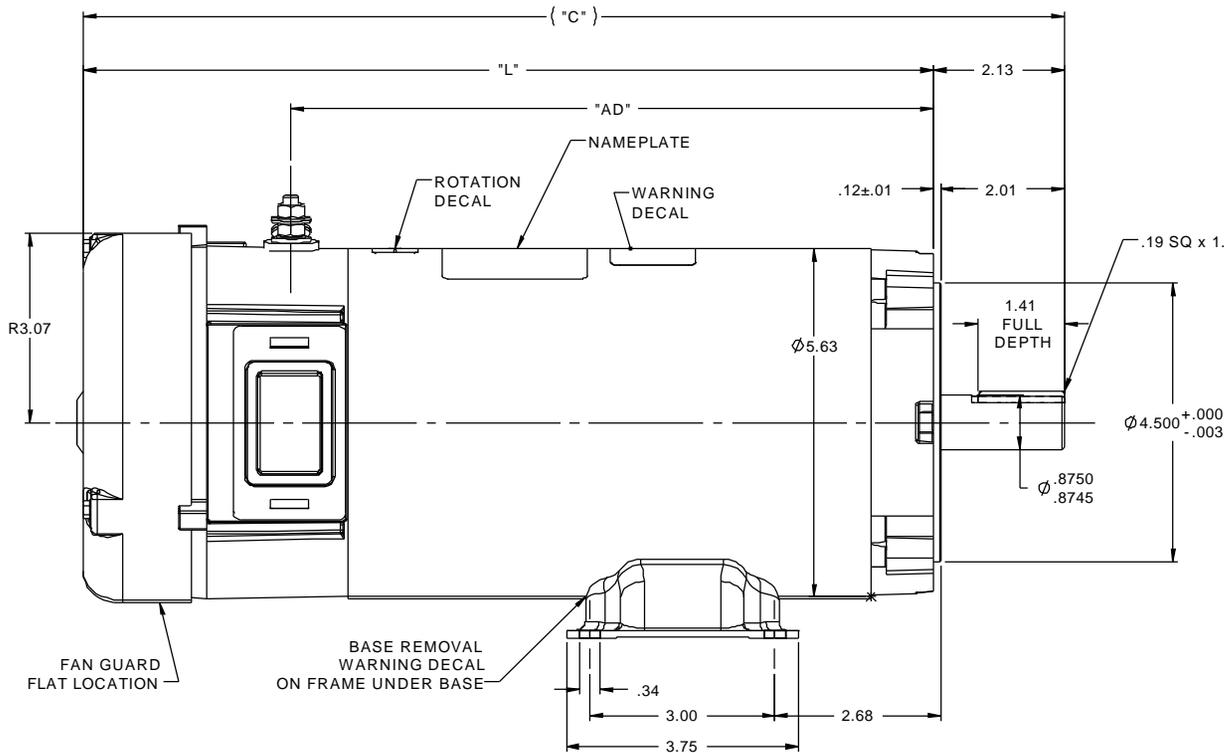
Output HP	1.50 Hp	Output KW	1.1 kW
Voltage	36 V	Speed	1800 rpm
Service Factor	1.0	Frame	S56CZ
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	82.4 %	Ambient Temperature	40 °C
Current	36.0 A	Duty	Continuous
Insulation Class	H	Drive End Bearing Size	6205
Opp Drive End 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		
Connection Drawing	00531901	Outline Drawing	031935-109104

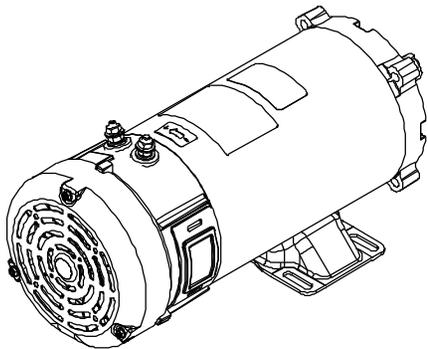
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- NOTES:
 1) MAXIMUM FACE RUNOUT .004 T.I.R.
 2) MAXIMUM PILOT ECCENTRICITY .004 T.I.R.
 3) PERMISSIBLE SHAFT RUNOUT .002 T.I.R.
 4) GASKETS THROUGHOUT.

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		LEESON 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		PREV		SIZE	DRAWING NO
		NETWORK FILE NAME 031935				B	031935
							REV
							02



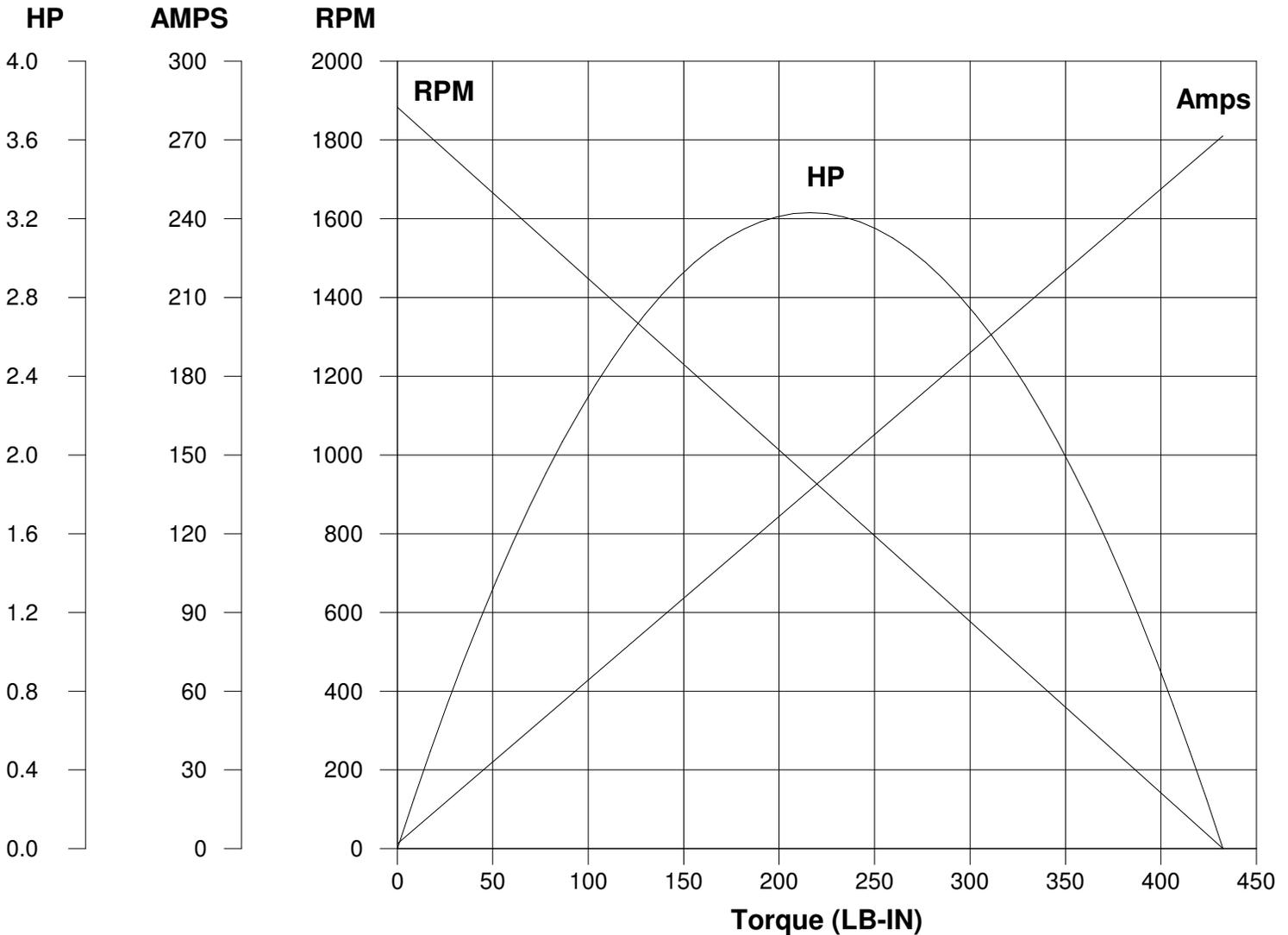
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

				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 PMDC MOTOR	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	MAT'L.	FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	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

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. <u>C4D18FK4</u>	Catalog No. <u>109104.00</u>	
HP <u>1.500</u>	RPM <u>1800</u>	DC Volts <u>36.0</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>36.00</u>
		S.F. <u>1.00</u>
		Duty <u>CONT</u>



Ra 0.06500 Ohms
La 2.100 mHenrys
Ja 16.80 LB-IN²
Ke 18.97 V/KRPM

Kt 1.604 LB-IN/AMP
Imax 300.0 AMPS Allowed
FL Torque 52.50 LB-IN
FL EFF 82.40 %

Winding W- D56267-1 **Prepared by** S. Bernhardt **Date** 05-05-2009