

PRODUCT INFORMATION PACKET



Model No: 109102.00
Catalog No: 109102.00
Low Voltage Motor, 1 HP, 48 V, 1800 RPM, S56C Frame, TEFC



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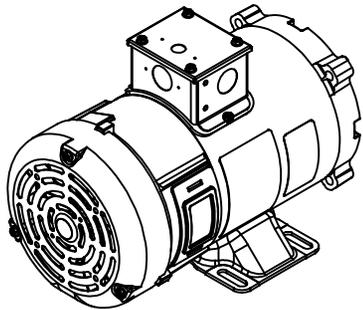
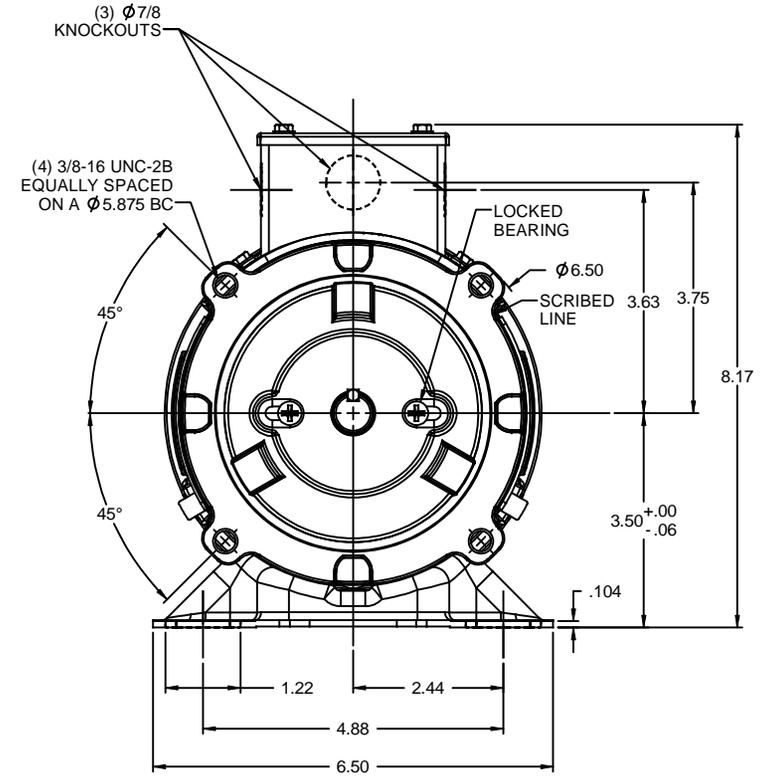
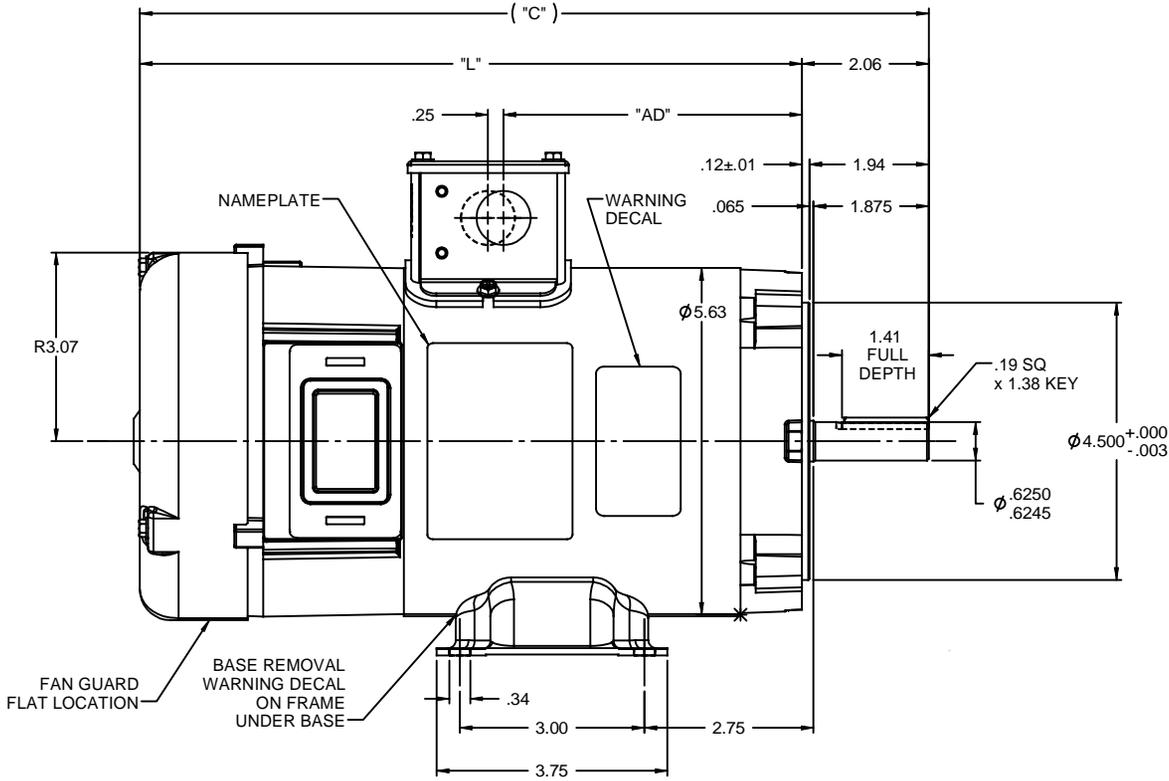
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Voltage	48 V	Speed	1800 rpm
Service Factor	1.0	Frame	S56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	82 %	Ambient Temperature	40 °C
Current	18.5 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	13.82 in	Frame Length	6.47 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Torque	35 LB-IN		
Connection Drawing	00531901	Outline Drawing	031891-109102

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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.

109102.00	13.82	11.76	5.85	48	1	1800
109101.00	13.82	11.76	5.85	36	1	1800
108605.00	12.82	10.76	4.85	36	3/4	1800
108052.00	12.82	10.76	4.85	24	3/4	1800
CATALOG No.	"C"	"L"	"AD"	VOLTS	H.P.	RPM

03		ADDED NOTE ABOUT FAN GUARD FLAT LOCATION. ISAAC	IPG 12/9/2009	DEC	TOLERANCES UNLESS SPECIFIED INCHES	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN IPG 4/2/08
09-4813				x	±.1		CHK BC 4/2/08
02		ADDED DATA FOR 108605.00, 109101.00 & 109102.00	IPG 4/6/2009	SK	.xx ±.03	TITLE OUTLINE	SCALE 1:2
01		ADDED PLUG CAP TO FAN GUARD. 108052.00	RPB 3/5/2009	RWS	xxx ±.005	48 FRAME DC - S56C MOUNT	REF 031879
NO		RELEASED: REF. 031879 & 031187	IPG 4/8/2008	BC	xxx ±.0005	MATL	FMF 108052.75
REVISION		BY & DATE	CHK	ANG	±1/2°	FINISH	PAGE OF
THIRD ANGLE PROJECTION			RFP	PREV		SIZE	DRAWING NO
			NETWORK FILE NAME			B	031891
							REV
							03



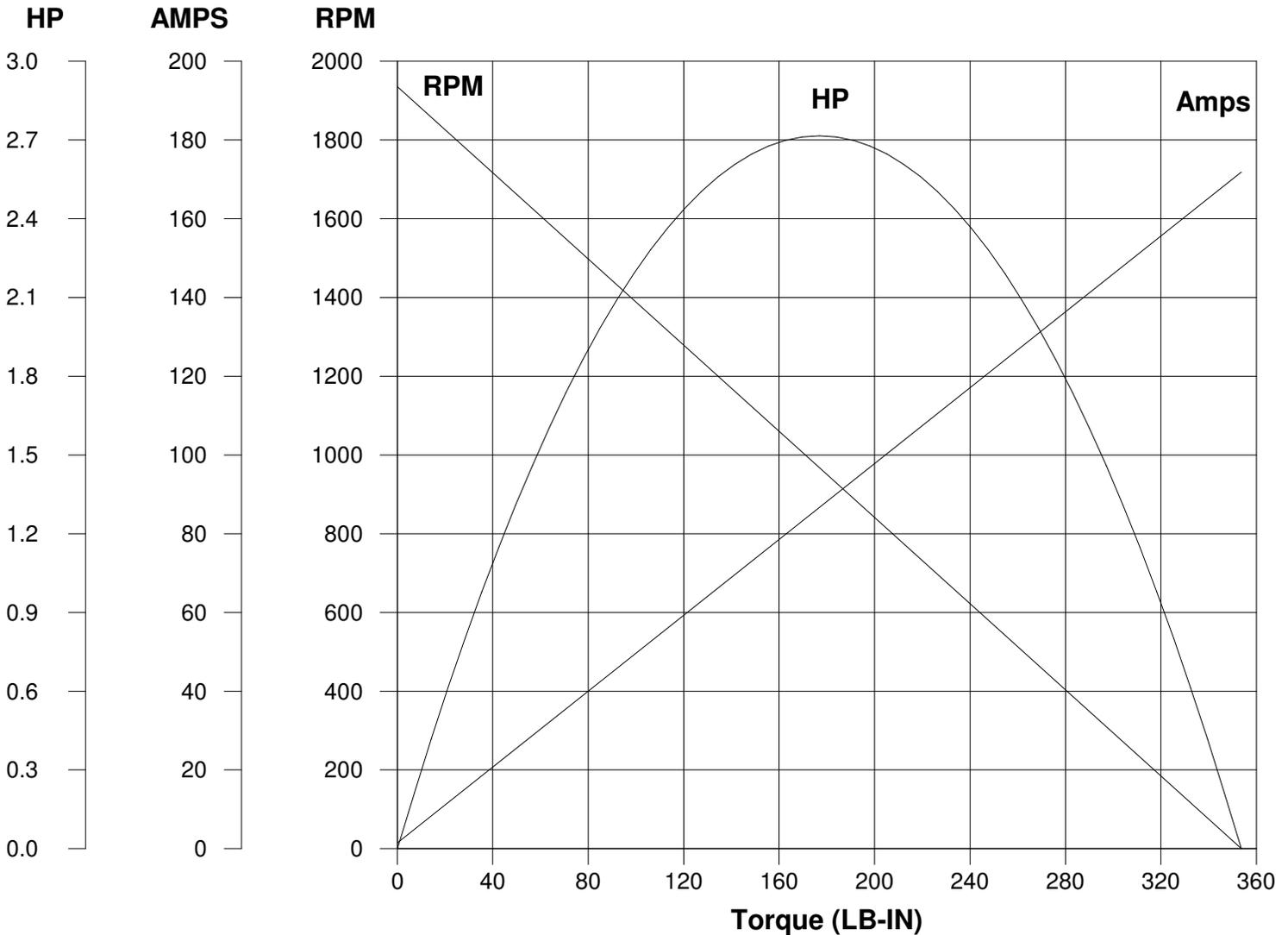
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

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	 Regal Beloit America, Inc.	CHK		
E	"MOTOR" WAS "ARMATURE", ECO-0163602	IPG 3/14/19		.XX	±.01		TITLE	EXTERNAL WIRING DIAGRAM	APPD POW 11/15/97
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	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	DRAWING NO.	REV.
				DIST	4 of 5		A	005319.01	F

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. <u>C4D18FK2</u>	Catalog No. <u>109102.00</u>	
HP <u>1.000</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>S56C</u>
		N.P. FLA <u>18.50</u>
		S.F. <u>1.00</u>
		Duty <u>Cont</u>



Ra <u>0.1830</u> Ohms La <u>3.000</u> mHenrys Ja <u>11.20</u> LB-IN ² Ke <u>24.61</u> V/KRPM	Kt <u>2.080</u> LB-IN/AMP Imax <u>165.0</u> AMPS Allowed FL Torque <u>35.00</u> LB-IN FL EFF <u>82.00</u> %
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Winding W- D56244 Prepared by S. Bernhardt Date 05-19-2009