

PRODUCT INFORMATION PACKET



Model No: 098000.00
Catalog No: 098000.00
SCR Motor, 0.50 HP, 90 V, 1750 RPM, SS56C Frame, TEFC



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Nameplate Specifications

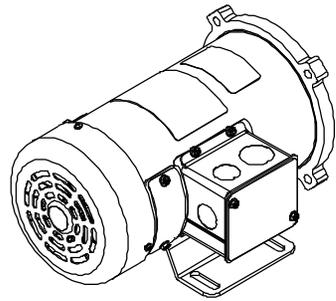
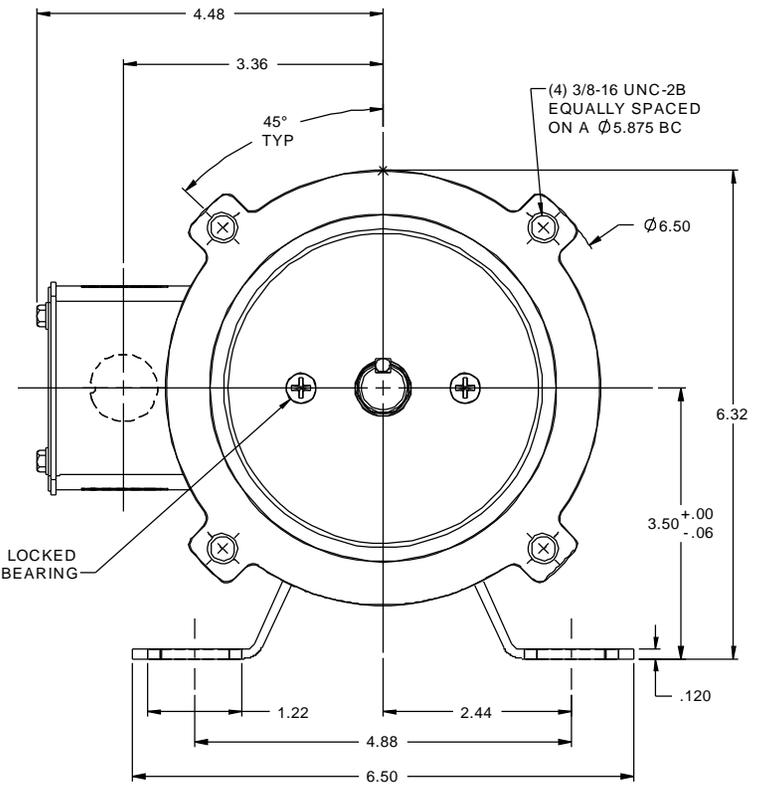
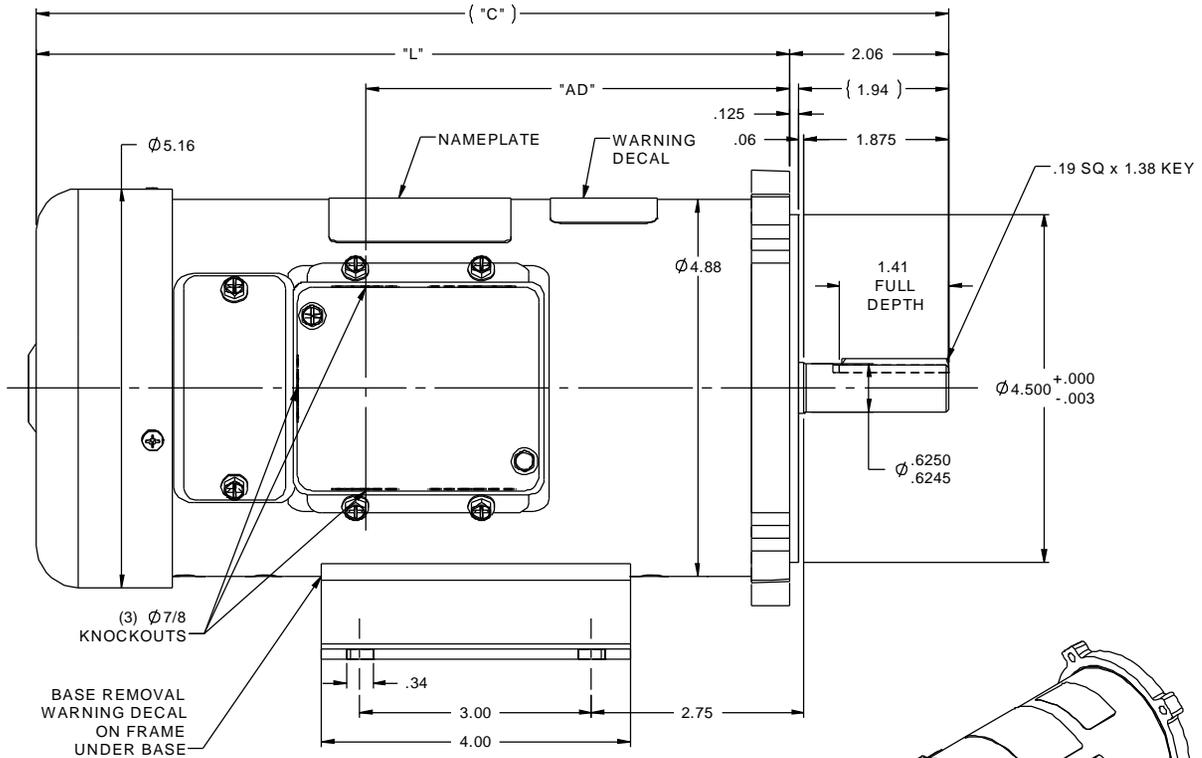
Output HP	0.50 Hp	Output KW	0.37 kW
Voltage	90 V	Speed	1750 rpm
Service Factor	1.0	Frame	SS56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	81.4 %	Ambient Temperature	40 °C
Current	5.0 A	Duty	Continuous
Insulation Class	F	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

Technical Specifications

Rotation	Reversible	Mounting	Rigid C base
Overall Length	11.81 in	Frame Length	7.50 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Torque	18 LB-IN		
Connection Drawing	00531901	Outline Drawing	027620-098000

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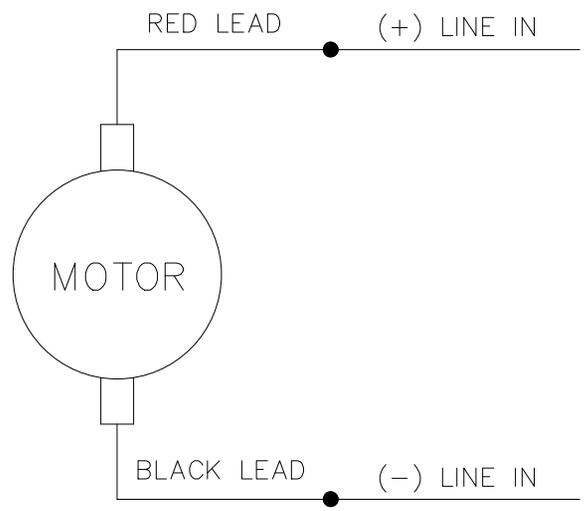
- NOTES:
 1) MAXIMUM FACE RUNOUT .004 T.I.R.
 2) MAXIMUM PILOT ECCENTRICITY .004 T.I.R.
 3) PERMISSIBLE SHAFT RUNOUT .002 T.I.R.
 4) GASKETS THROUGHOUT.

098382.00	10.81	8.75	4.49	48	1/2	1800
098381.00	10.81	8.75	4.49	36	1/2	1800
098069.00	13.81	11.75	7.49	180	3/4	1750
098032.00	13.81	11.75	7.49	90	3/4	1750
098010.00	11.81	9.75	5.49	180	3/4	2500
098009.00	11.81	9.75	5.49	90	3/4	2500
098008.00	11.81	9.75	5.49	180	1/2	1750
098007.00	10.81	8.75	4.49	180	1/2	2500
098006.00	10.81	8.75	4.49	90	1/2	2500
098005.00	11.31	9.25	4.99	180	1/3	1750
098004.00	11.31	9.25	4.99	90	1/3	1750
098003.00	11.31	9.25	4.99	180	1/4	1750
098002.00	10.81	8.75	4.49	90	1/4	1750
098000.00	11.81	9.75	5.49	90	1/2	1750
CATALOG No.	"C"	"L"	"AD"	VOLTS	H.P.	RPM

		TOLERANCES UNLESS SPECIFIED		DRAWN JRA 5/11/95	
		DEC INCHES		CHK	
		X ±.1		APPR	
08	REDRAWN IN SOLIDWORKS, MODIFIED TABLE PER NEW STANDARD	IPG 9/8/2011	XX ±.03	TITLE OUTLINE	
			XXX ±.005	42 FRAME DC - SS56C MOUNT	
07	ADDED FAN GUARD HOLE PLUG, ISAAC 10-4174	IPG 10/11/10	XXXX ±.0005	MATL	
NO REVISION		BY & DATE	CHK ANG ±1/2°	FINISH	
THIRD ANGLE PROJECTION		RFP	PREV	SIZE	DRAWING NO
		NETWORK FILE NAME 027620		B	027620
				REV	08



ELECTRIC MOTORS
 GEARMOTORS
 AND DRIVES



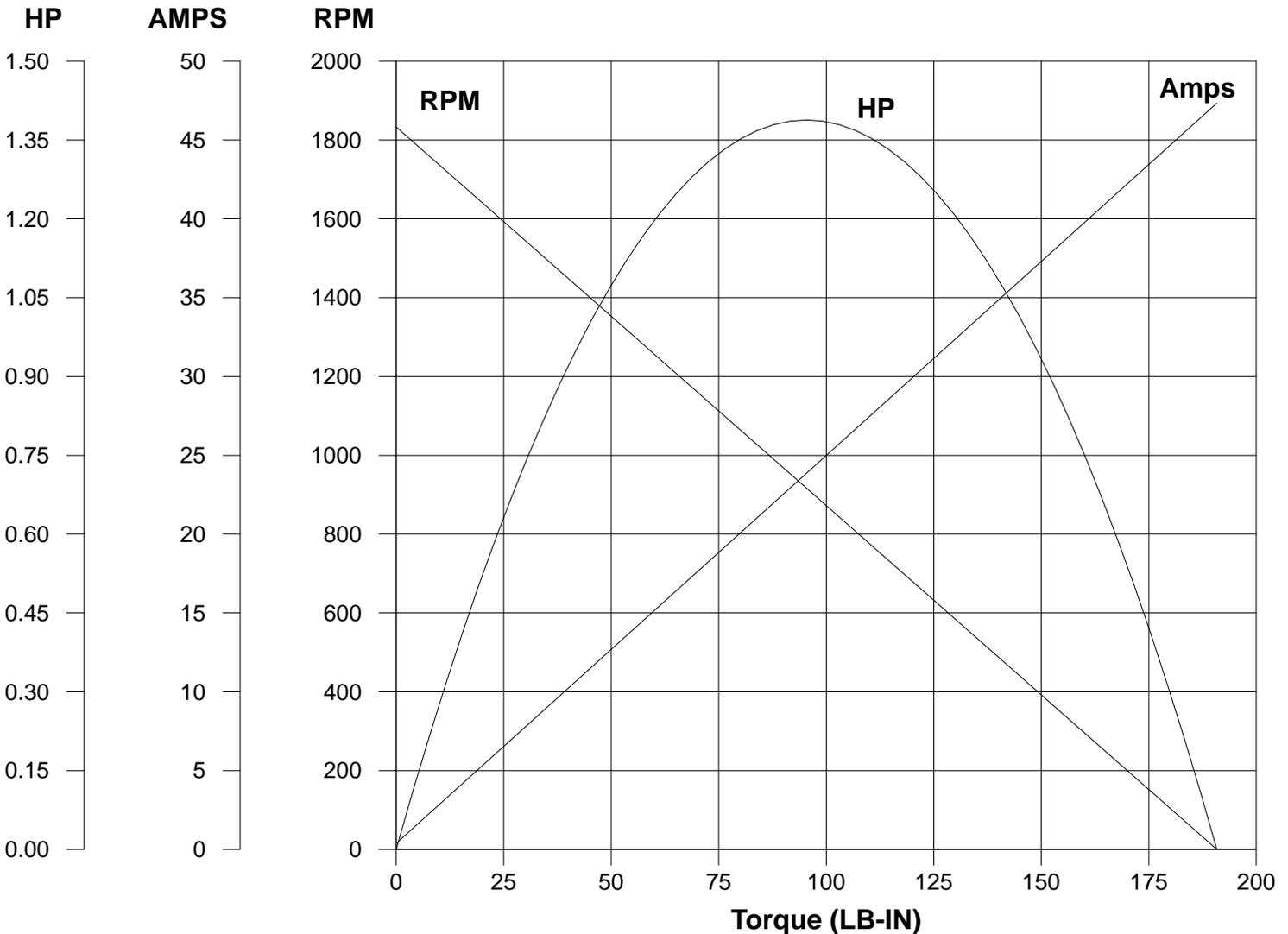
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

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	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
						4 of 5				

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. C42D17FK1 **Catalog No.** 098000.00
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** SS56C **Duty** Cont



Ra 1.1400 Ohms
La 14.40 mHenrys
Ja 7.813 LB-IN²
Ke 48.47 V/KRPM

Kt 4.097 LB-IN/AMP
Imax 55.2 AMPS Allowed
FL Torque 18.00 LB-IN
FL EFF 81.40 %

Winding W- D4721-1 **Prepared by** V. Boehlen **Date** 07-02-2020