PRODUCT INFORMATION PACKET

Model No: 098000.00
Catalog No: 098000.00
0.50 HP SCR Motor, 1750 RPM, 90 V, 56C Frame, TEFC
SCR Motors

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Nameplate Specifications

Output HP	**0.50 Hp**	Output KW	**0.37 kW**
Voltage	**90 V**	Current	**5.0 A**
Speed	**1750 rpm**	Service Factor	**1**
Efficiency	**81.4 %**	Duty	**Continuous**
Insulation Class	**F**	Frame	**SS56C**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No**
Ambient Temperature	**40 °C**	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**
Connection Drawing	**00531901**	Outline Drawing	**027620-098000**

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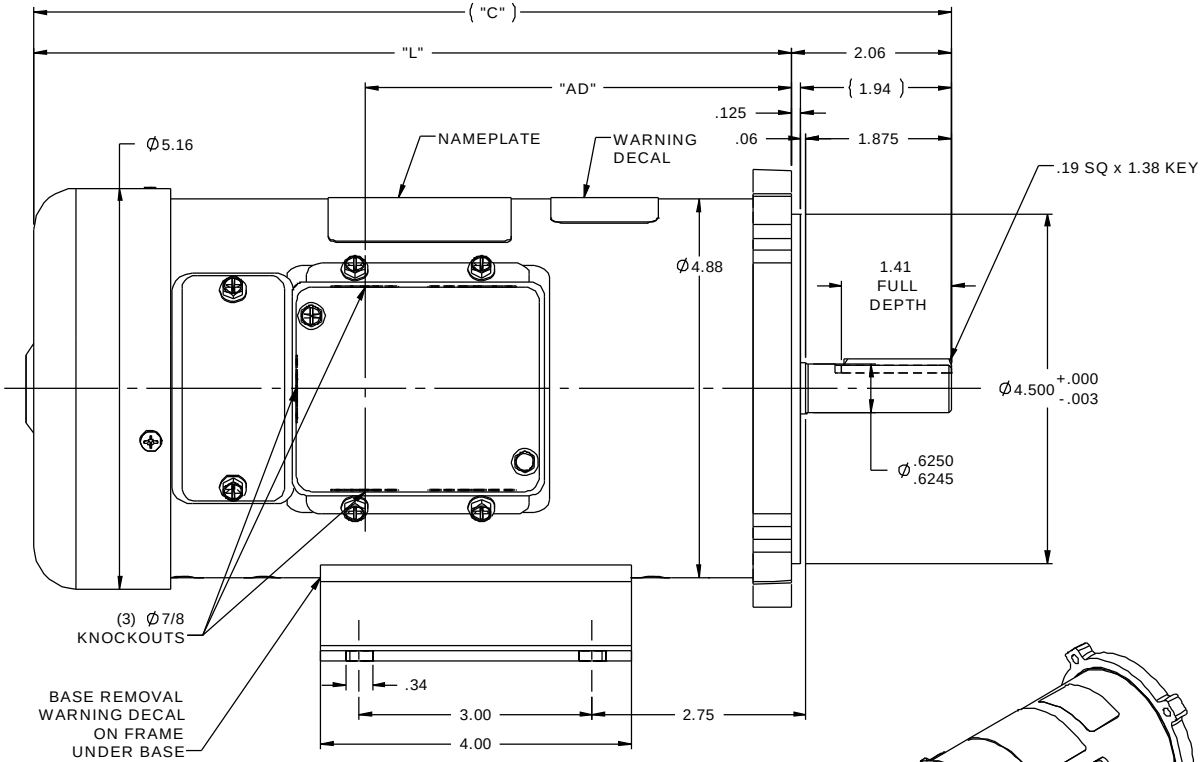

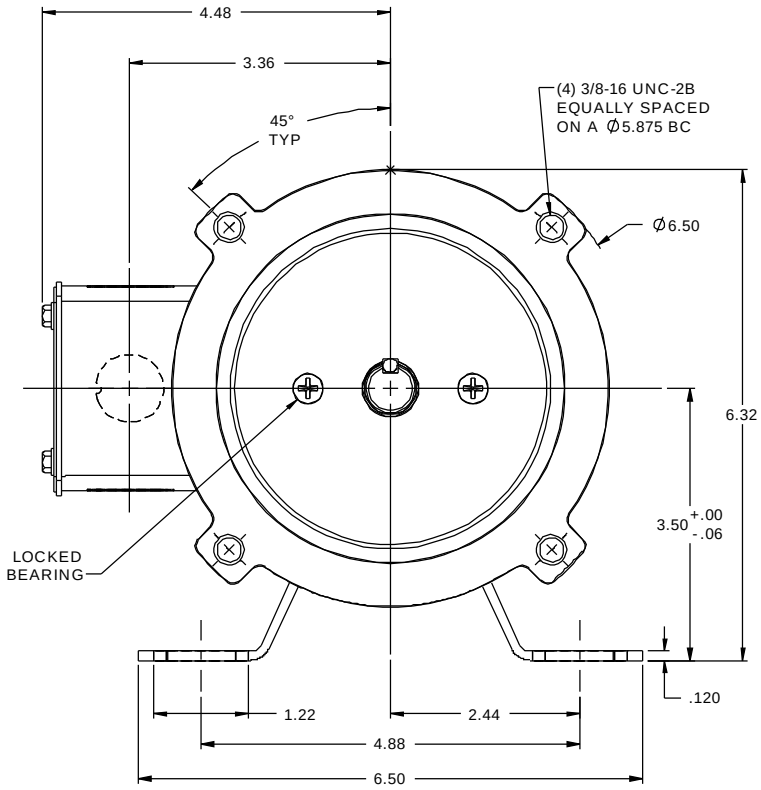

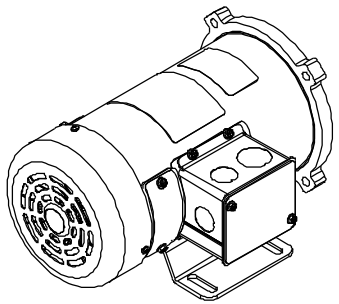

CATALOG No.	"C"	"L"	"AD"	VOLTS	H.P.	RPM
098382.00	10.81	8.75	4.49	48	1/2	1800
098381.00	10.81	8.75	4.49	36	1/2	1800
098069.00	13.81	11.75	7.49	180	3/4	1750
098032.00	13.81	11.75	7.49	90	3/4	1750
098010.00	11.81	9.75	5.49	180	3/4	2500
098009.00	11.81	9.75	5.49	90	3/4	2500
098008.00	11.81	9.75	5.49	180	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

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.

NO	REVISION	BY & DATE	CHK
08	REDRAWN IN SOLIDWORKS, MODIFIED TABLE PER NEW	IPG 9/8/2011	
	STANDARD		
07	ADDED FAN GUARD HOLE PLUG, ISAAC 10-4174	IPG 10/11/10	

TOLERANCES UNLESS SPECIFIED
DEC INCHES
X ±.1
XX ±.03
XXX ±.005
XXXX ±.0005
ANG ±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE OUTLINE
42 FRAME DC - SS56C MOUNT
MAT'L
FINISH

DRAWN JRA 5/11/95
CHK
APPR
SCALE 5:8
REF RDOUT42DC8
FMF C42D17FK1
PAGE OF

THIRD ANGLE PROJECTION
RFP
PREV
NETWORK FILE NAME 027620
SIZE B
DRAWING NO 027620
REV 08

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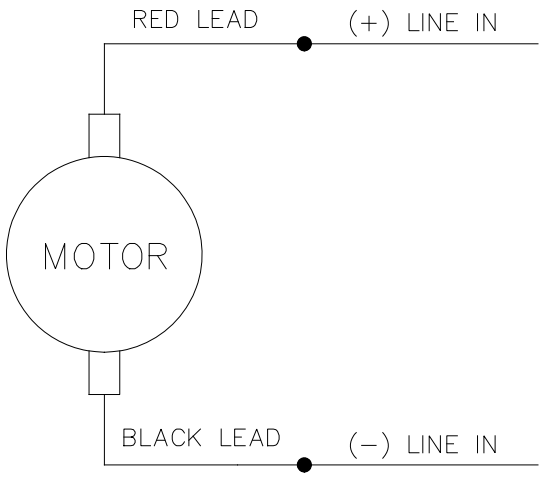

CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR

TO REVERSE ROTATION INTERCHANGE LINE LEADS

NO.	REVISION	BY & DATE	CHK
E	"MOTOR" WAS "ARMATURE", ECO−0163602	IPG 3/14/19	
D	UPDATED TO MAKE IT GENERIC, ECO−0163547	IPG 3/13/19	
01	REDRAWN ON CAD. REVISED NOTES.	SJB 9/20/2005	

TOLERANCES UNLESS SPECIFIED	
DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE: EXTERNAL WIRING DIAGRAM PMDC MOTOR

MAT'L.

FINISH

DRAWN	TJF 11/15/97
CHK	
APPD	POW 11/15/97
SCALE	1=2
REF	
FMF	
PREV	

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DIST

CAD FILE 00531901

SIZE	DRAWING NO.	REV.
A	005319.01	E

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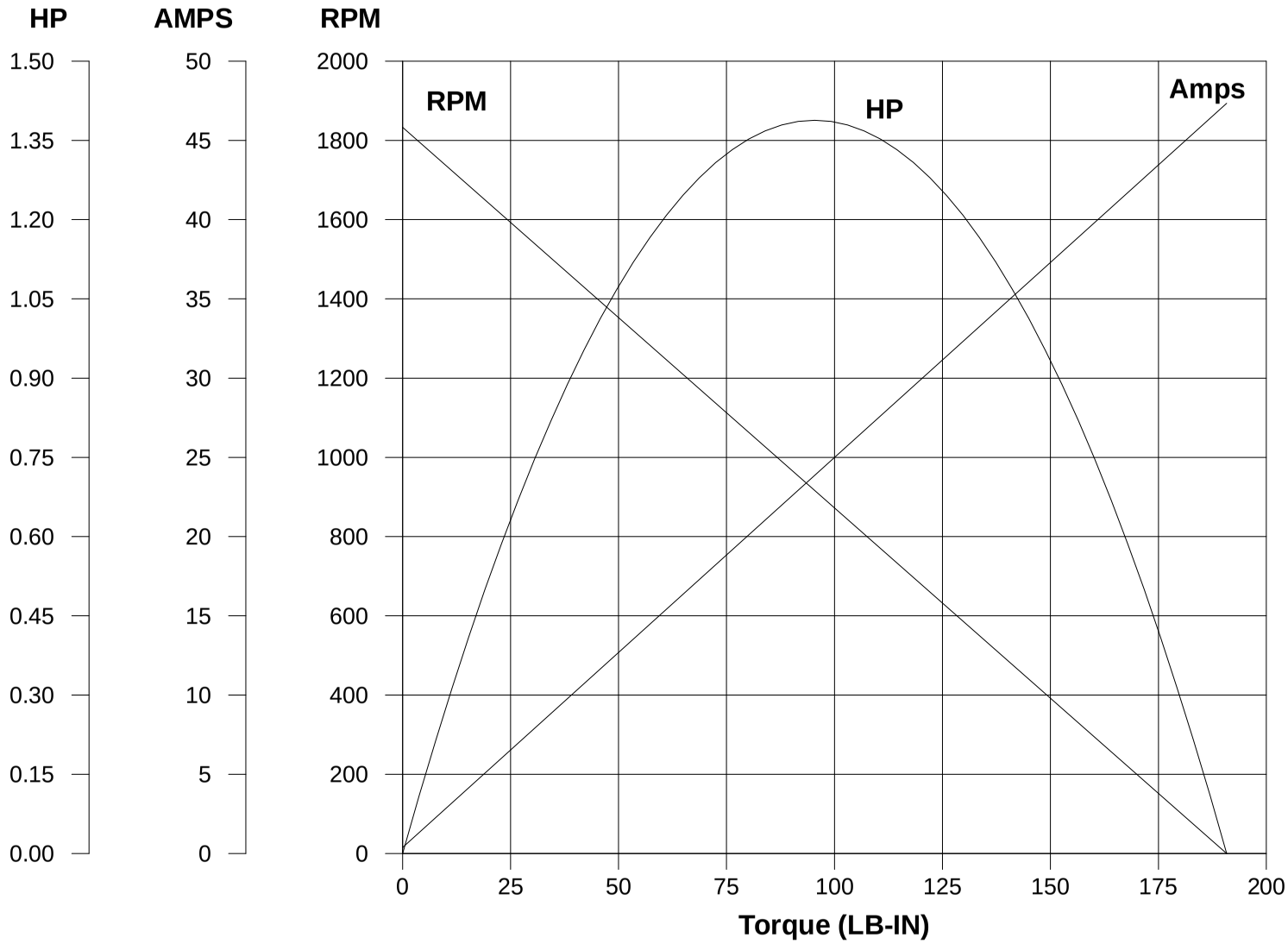
LEESON ELECTRIC CORPORATION

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	**Kt**	4.097	LB-IN/AMP
La	14.40	mHenrys	**Imax**	55.2	AMPS Allowed
Ja	7.813	LB-IN^2	**FL Torque**	18.00	LB-IN
Ke	48.47	V/KRPM	**FL EFF**	81.40	%

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