

PRODUCT INFORMATION PACKET

Model No: 108014.00

Catalog No: 108014.00

SCR Motor, 0.50 HP, 90 V, 1750 RPM, S56C Frame, TEFC



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Nameplate Specifications

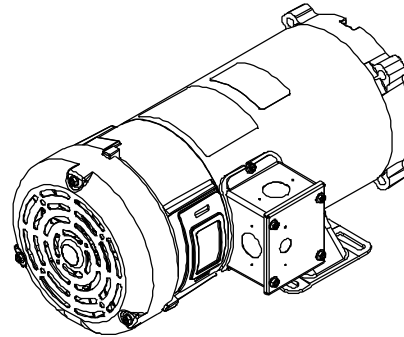
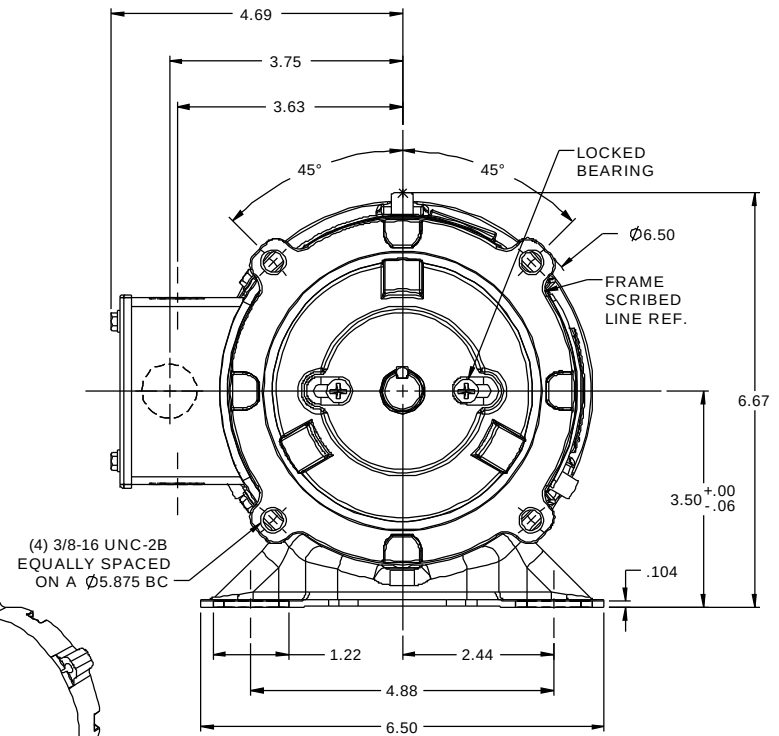
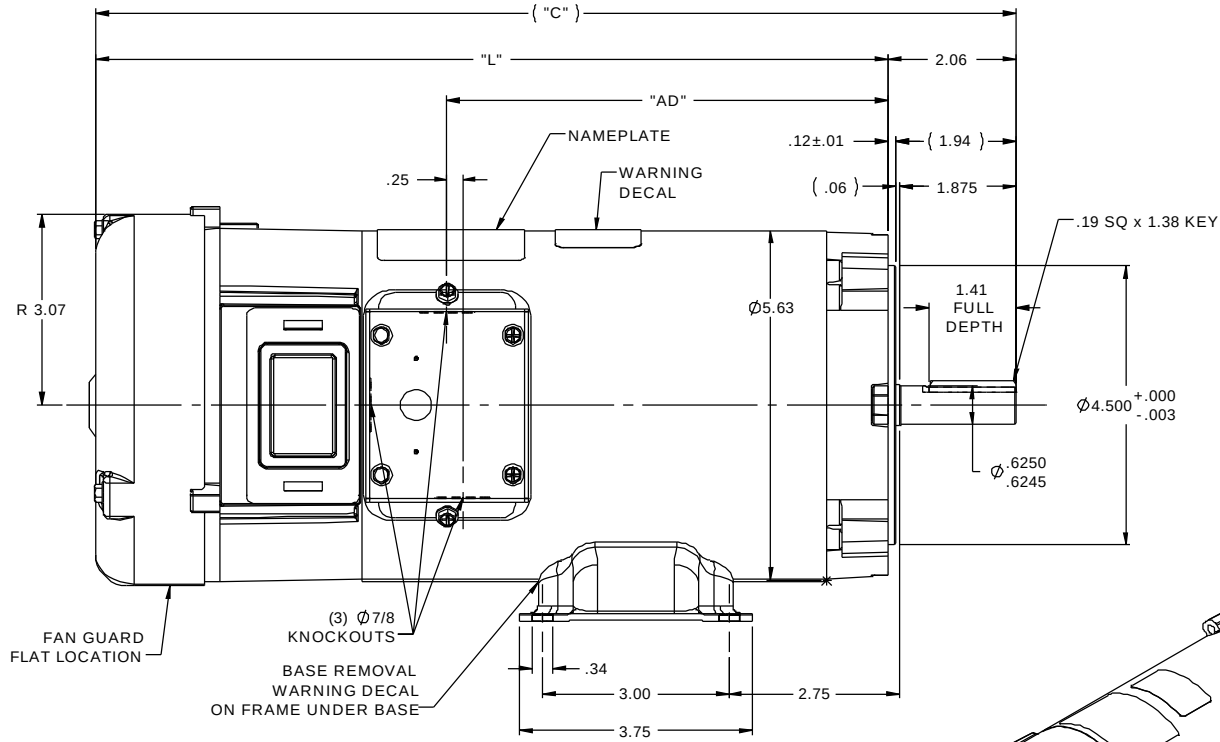
Output HP	0.50 Hp	Output KW	0.37 kW
Voltage	90 V	Current	5.0 A
Speed	1750 rpm	Service Factor	1
Efficiency	78.3 %	Duty	Continuous
Insulation Class	F	Frame	S56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

Technical Specifications

Rotation	Reversible	Mounting	Rigid C base
Overall Length	12.82 in	Frame Length	5.47 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Torque	18 LB-IN		
Outline Drawing	031879-108014	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

109100.00	15.82	13.76	8.10	90	3/4	1140
109099.00	14.32	12.26	6.60	90	1/2	1140
109098.00	12.82	10.76	5.10	90	1/3	1140
108265.00	15.32	13.26	7.60	180	1 1/2	2500
108092.00	16.82	14.76	9.10	180	1 1/2	1750
108023.00	14.82	12.76	7.10	180	1	1750
108022.00	14.82	12.76	7.10	90	1	1750
108021.00	13.82	11.76	6.10	180	1	2500
108020.00	13.32	11.26	5.60	90	1	2500
108019.00	13.82	11.76	6.10	180	3/4	1750
108018.00	13.82	11.76	6.10	90	3/4	1750
108017.00	12.82	10.76	5.10	180	3/4	2500
108016.00	12.82	10.76	5.10	90	3/4	2500
108015.00	12.82	10.76	5.10	180	1/2	1750
108014.00	12.82	10.76	5.10	90	1/2	1750
CATALOG No.	"C"	"L"	"AD"	VOLTS	H.P.	RPM

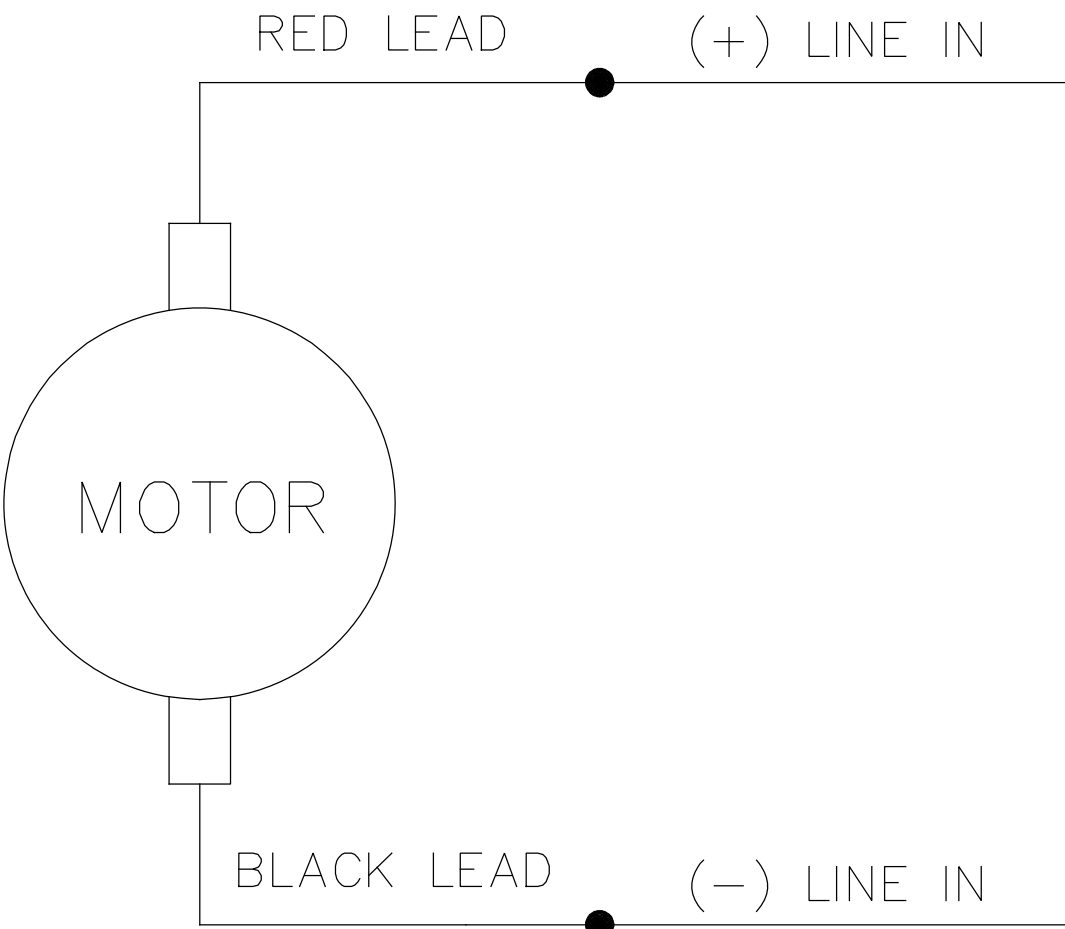
06	CHANGED .06 & 1.94 DIMS TO REF., ISAAC 12-0984	IPG	1/30/2013		TOLERANCES UNLESS SPECIFIED					
05	ADDED NOTE ABOUT FAN GUARD LOCATION, ISAAC 09-4813	IPG	12/4/2009		DEC	INCHES				
04	CAT. # 108092.00: "C" WAS 17.32, "L" WAS 15.26, "AD" WAS 9.60, ISAAC 09-1828	IPG	5/14/2009		X	±.1				
03	ADDED DATA FOR VARIOUS CAT. NUMBERS, COMPLETED	IPG	9/15/2008		XXX	±.005				
	TABLE				XXXX	±.0005				
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH				
			RFP			PREV				
	THIRD ANGLE PROJECTION									
					NETWORK FILE NAME	031879				
					SIZE	B				
					DRAWING NO	031879				
					REV	06				



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

DRAWN RWS 1/8/08
CHK IPG 1/9/08
APPR
SCALE 1:2
REF 03189.00
FMF 108022.75
PAGE OF

005319.01



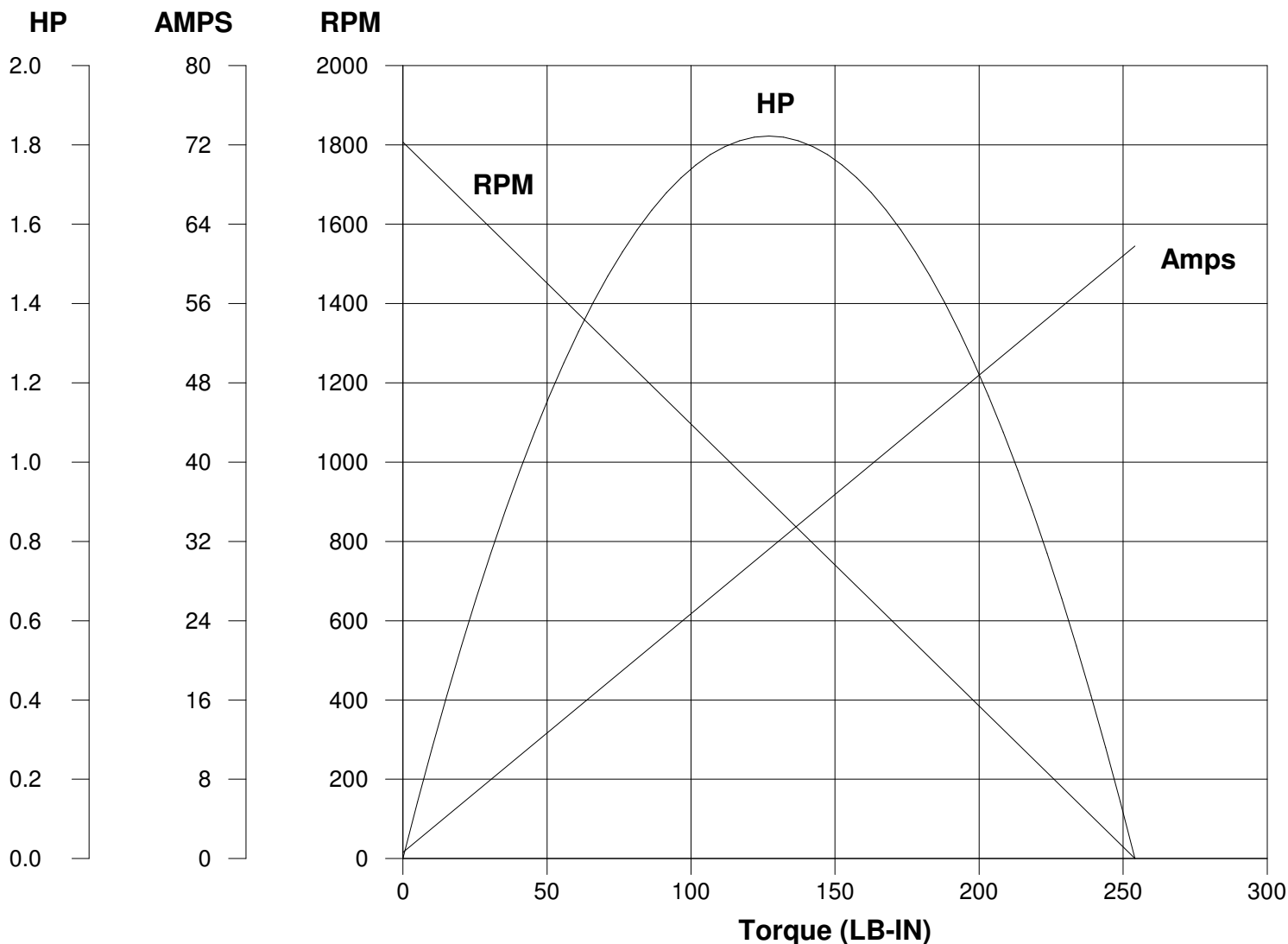
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
TO REVERSE ROTATION INTERCHANGE LINE LEADS

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN TJF 11/15/97		
				DEC.	INCHES			CHK		
				.X	±.1			APPD POW 11/15/97		
E	"MOTOR" WAS "ARMATURE", ECO-0163602	IPG 3/14/19		.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM PMDC MOTOR		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		
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			DIST				A	005319.01		E

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE

FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. C4D17FK1Catalog No. 108014.00HP 0.500RPM 1750DC Volts 90.0N.P. FLA 5.00F.F. 1.38Encl TEFCType DFS.F. 1.00Max. Amb. 40.0 Deg CInsul. FFrame S56CDuty Cont

Ra 1.0200 Ohms
 La 10.60 mHenrys
 Ja 7.200 LB-IN²
 Ke 49.17 V/KRPM

Kt 4.156 LB-IN/AMP
 Imax 55.0 AMPS Allowed
 FL Torque 18.00 LB-IN
 FL EFF 78.30 %

Winding W- D56216-1Prepared by S. BernhardtDate 05-05-2009