

PRODUCT INFORMATION PACKET



Model No: 108047.00
Catalog No: 108047.00
Low Voltage Motor, 0.50 HP, 12 V, 1800 RPM, S56C Frame, TENV



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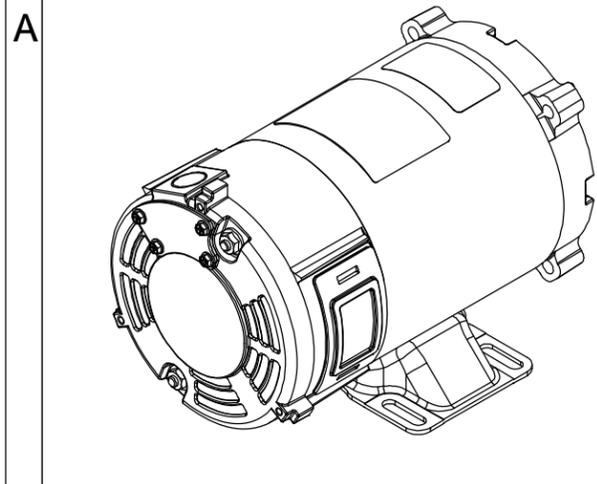
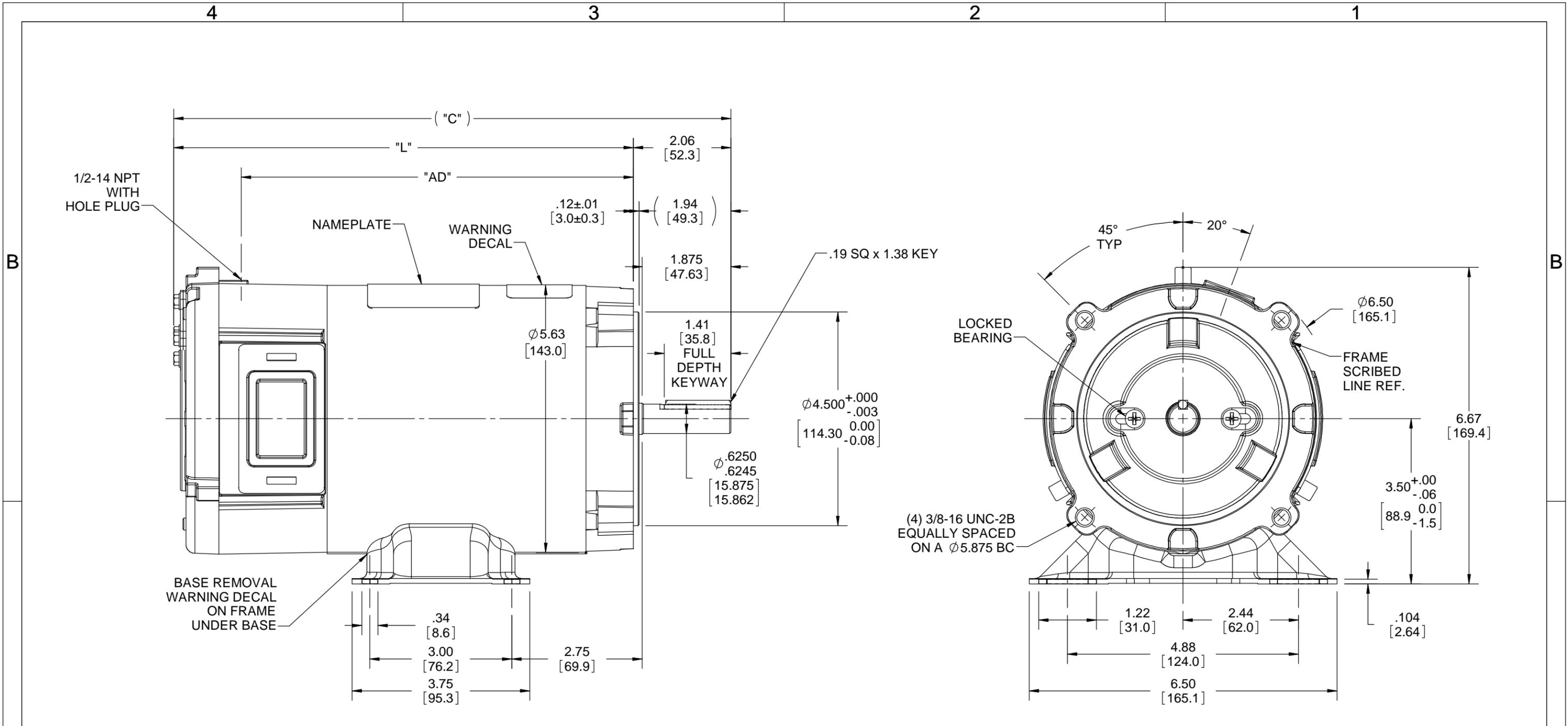
Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Voltage	12 V	Speed	1800 rpm
Service Factor	1.0	Frame	S56C
Enclosure	Totally Enclosed Non Ventilating	Thermal Protection	No Protection
Efficiency	83.6 %	Ambient Temperature	40 °C
Current	39.0 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	11.77 in	Frame Length	5.47 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Torque	17.5 LB-IN		
Outline Drawing	031880-108047	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

108051.00	11.77	9.71	8.78	24	1/2	1800
108050.00	10.77	8.71	7.78	24	1/3	1800
108047.00	11.77	9.71	8.78	12	1/2	1800
108046.00	10.77	8.71	7.78	12	1/3	1800
108045.00	10.27	8.21	7.28	12	1/4	1800
CATALOG NO.	"C"	"L"	"AD"	VOLTS	H.P.	RPM

DRAWING REVISION D	REVISION BY IVAN GUERRA	REV DATE/© DATE 11/11/20	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ±0.1 [±3] ±0.5° .XX ±0.03 [±0.8] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 125/3.2 INCH/mm mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY IPG	Regal Beloit America, Inc. OUTLINE 48 FRAME DC - S56C MOUNT MATERIAL PROCESS/FINISH SIZE DRAWING NUMBER B 031880 SHEET 1 OF 1
ECO ECO-0194555	APPROVED BY	DATE	DATE 3/26/08		
ECO DESCRIPTION UPDATED AND ADDED S56C MOUNT TO DESCRIPTION			APPROVED BY		
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			REFERENCE 031879		



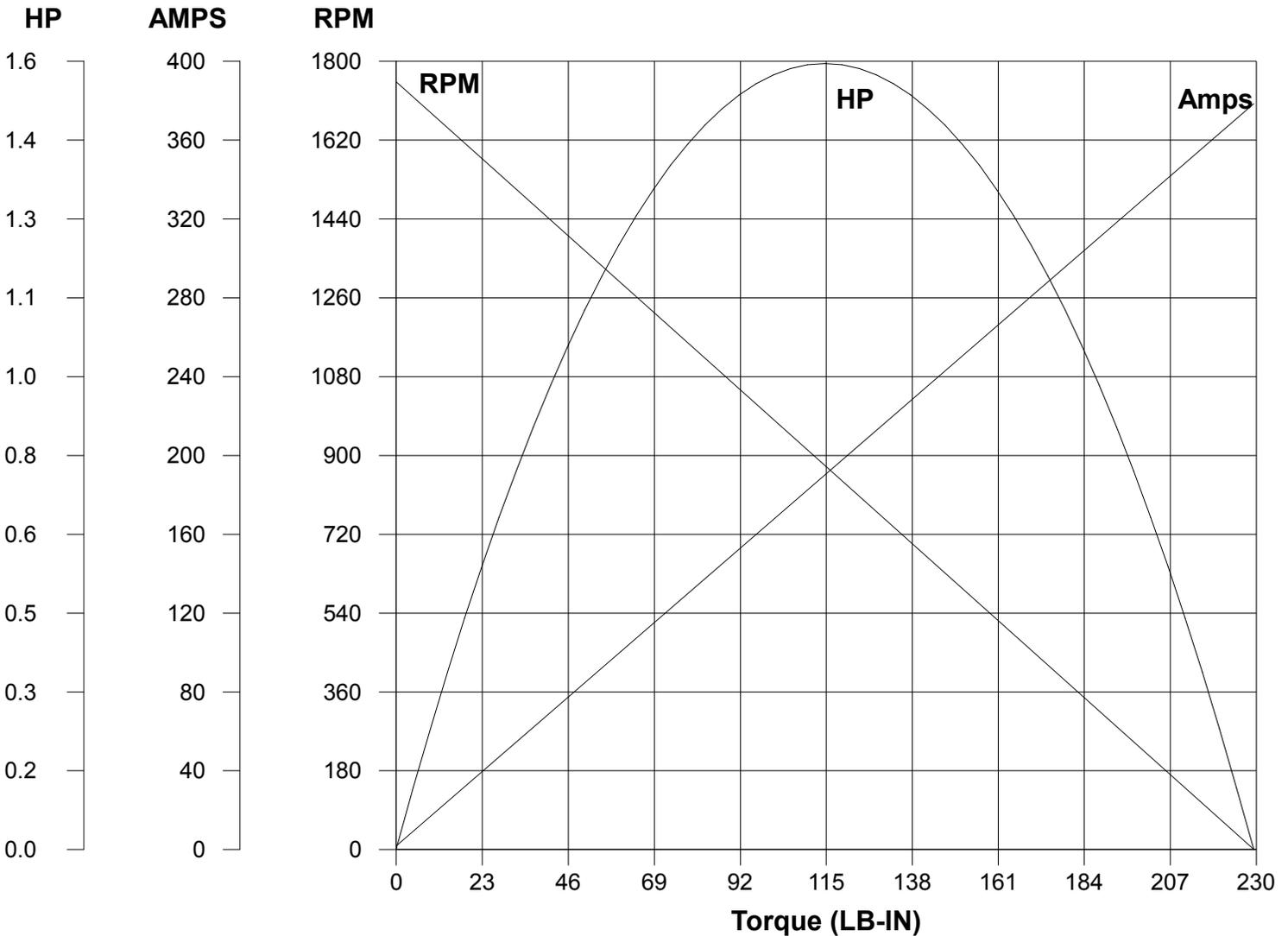
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

				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		
E	"MOTOR" WAS "ARMATURE", ECO-0163602	IPG 3/14/19		.XX	±.01		PMDC MOTOR		
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		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	FMF		
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. <u>C4D17NK7G</u>	Catalog No. <u>108047.00</u>	
HP <u>0.500</u>	RPM <u>1800</u>	DC Volts <u>12.0</u>
F.F. <u>1.00</u>	Encl <u>TENV</u>	Type <u>DN</u>
Max. Amb. <u>40.0 Deg C</u>	Insul. <u>H</u>	Frame <u>S56C</u>
		N.P. FLA <u>39.00</u>
		S.F. <u>1.00</u>
		Duty <u>S1</u>



Ra 0.01850 Ohms
La 0.0900 mHenrys
Ja 8.000 LB-IN²
Ke 6.758 V/KRPM

Kt 0.5712 LB-IN/AMP
Imax 471.4 AMPS Allowed
FL Torque 17.50 LB-IN
FL EFF 83.60 %

Winding W- D56286 **Prepared by** V. Boehlen **Date** 01-11-2017