

# PRODUCT INFORMATION PACKET



Model No: 108045.00  
Catalog No: 108045.00  
Low Voltage Motor, 0.25 HP, 12 V, 1800 RPM, S56C Frame, TENV



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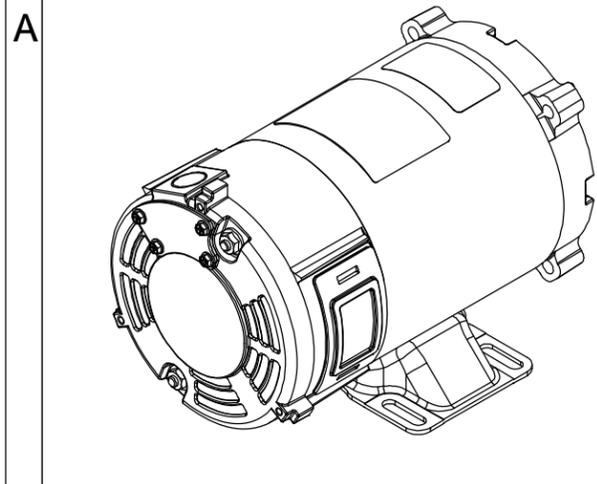
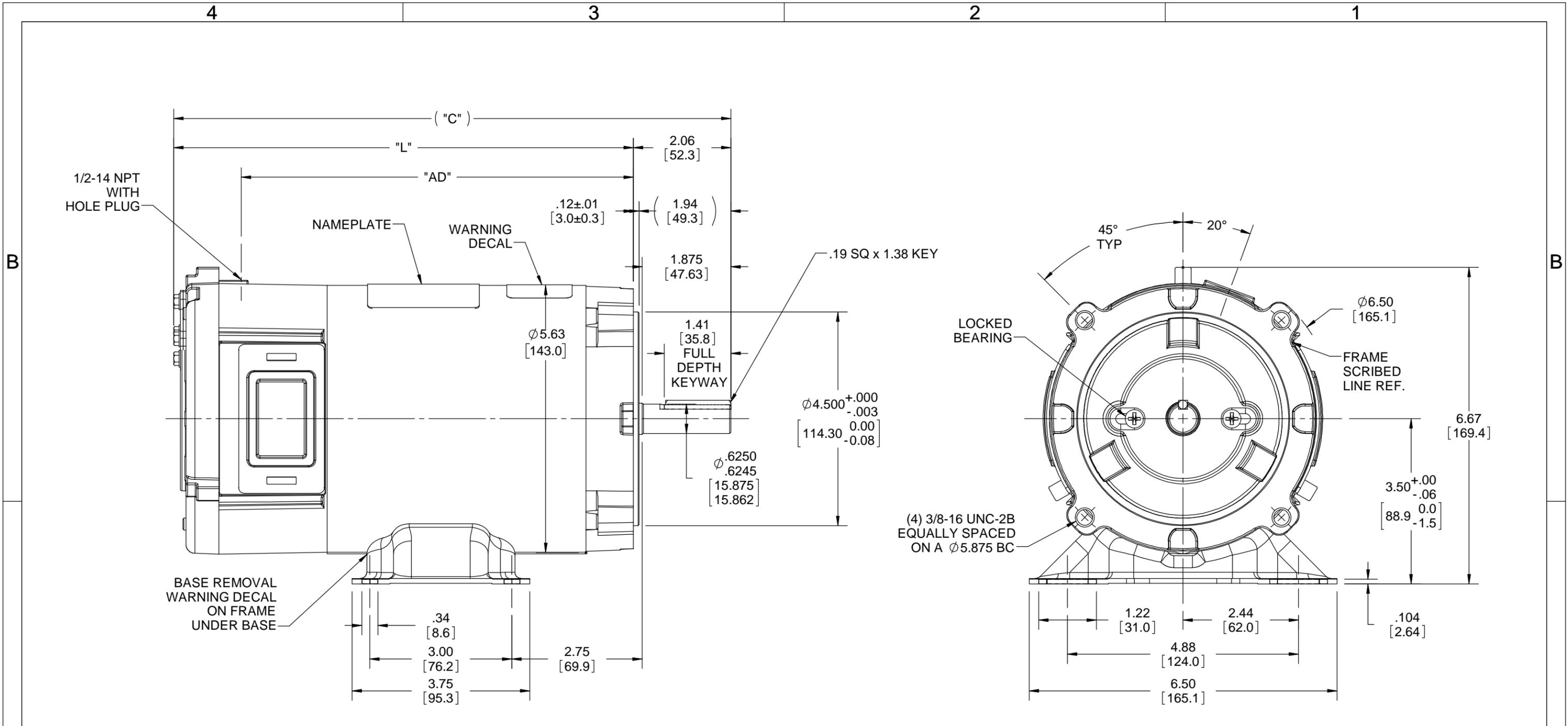
**Nameplate Specifications**

Output HP	0.25 Hp	Output KW	0.19 kW
Voltage	12 V	Speed	1800 rpm
Service Factor	1.0	Frame	S56C
Enclosure	Totally Enclosed Non Ventilating	Thermal Protection	No Protection
Efficiency	72.1 %	Ambient Temperature	40 °C
Current	21.0 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	10.27 in	Frame Length	3.97 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Torque	8.75 LB-IN		
Outline Drawing	031880-108045	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]	DRAWN BY IPG	<b>REGAL</b> ® Regal Beloit America, Inc.
ECO ECO-0194555	APPROVED BY	DATE	DATE 3/26/08	DESCRIPTION <b>OUTLINE</b> 48 FRAME DC - S56C MOUNT	
ECO DESCRIPTION UPDATED AND ADDED S56C MOUNT TO DESCRIPTION COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 125/3.2 INCH/mm	APPROVED BY	MATERIAL
			mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	REFERENCE 031879	PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE B
					DRAWING NUMBER <b>031880</b>
					SHEET 1 OF 1



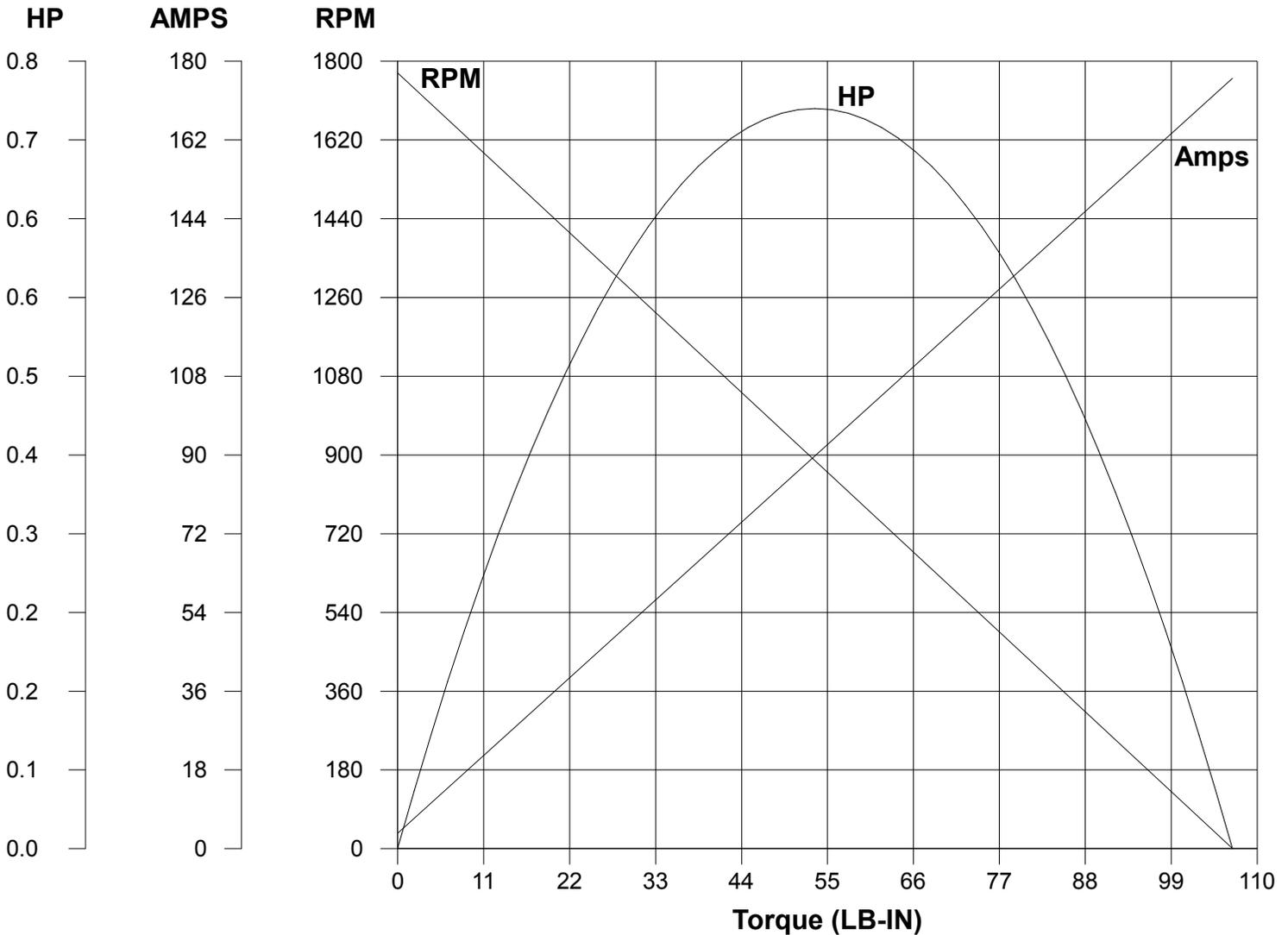
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR  
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

				TOLERANCES UNLESS SPECIFIED		 <b>Regal Beloit America, Inc.</b>	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
						<b>4 of 5</b>			

# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. <u>C4D17NK5</u>	Catalog No. <u>108045.00</u>	
HP <u>0.250</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>F</u>	Frame <u>S56C</u>
		N.P. FLA <u>21.00</u>
		S.F. <u>1.00</u>
		Duty <u>CONT</u>



**Ra** 0.04560 Ohms  
**La** 0.2400 mHenrys  
**Ja** 3.200 LB-IN<sup>2</sup>  
**Ke** 6.675 V/KRPM

**Kt** 0.5642 LB-IN/AMP  
**Imax** 253.8 AMPS Allowed  
**FL Torque** 8.750 LB-IN  
**FL EFF** 72.10 %

**Winding W-** D56297-1      **Prepared by** V. Boehlen      **Date** 08-13-2018