

# PRODUCT INFORMATION PACKET



Model No: 108051.00  
Catalog No: 108051.00  
Low Voltage Motor, 0.50 HP, 24 V, 1800 RPM, S56C Frame, TENV



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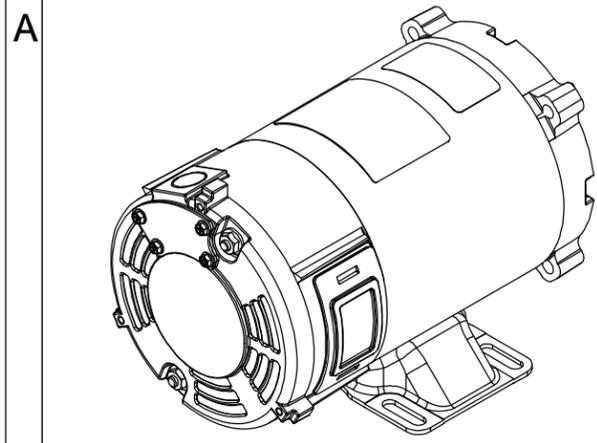
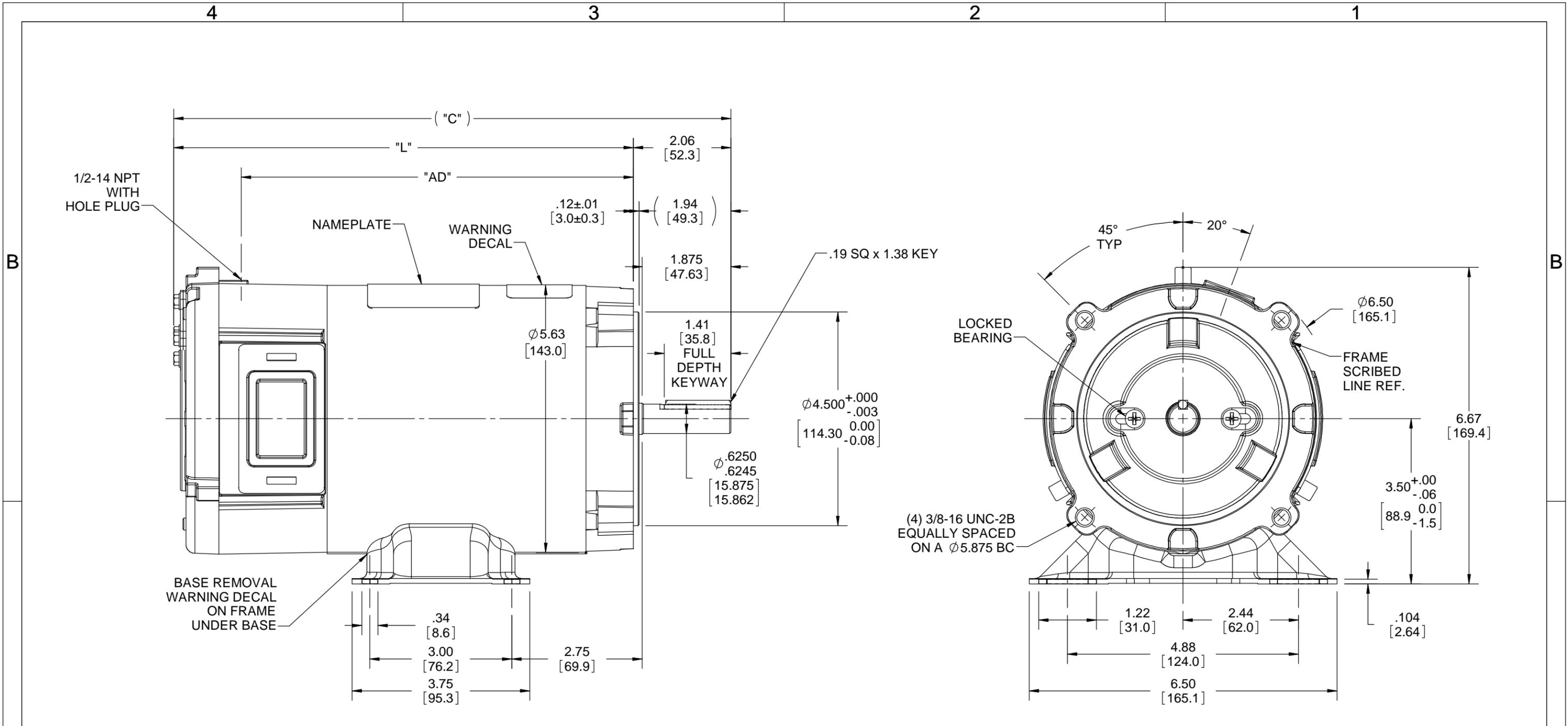
**Nameplate Specifications**

Output HP	<b>0.50 Hp</b>	Output KW	<b>0.37 kW</b>
Voltage	<b>24 V</b>	Speed	<b>1800 rpm</b>
Service Factor	<b>1.0</b>	Frame	<b>S56C</b>
Enclosure	<b>Totally Enclosed Non Ventilating</b>	Thermal Protection	<b>No Protection</b>
Efficiency	<b>77 %</b>	Ambient Temperature	<b>40 °C</b>
Current	<b>20.0 A</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Drive End Bearing Size	<b>6203</b>
Opp Drive End Bearing Size	<b>6203</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>N</b>

**Technical Specifications**

Rotation	<b>Reversible</b>	Mounting	<b>Rigid C base</b>
Overall Length	<b>11.77 in</b>	Frame Length	<b>5.47 in</b>
Shaft Diameter	<b>0.625 in</b>	Shaft Extension	<b>2.06 in</b>
Torque	<b>17.5 LB-IN</b>		
Connection Drawing	<b>00531901</b>	Outline Drawing	<b>031880-108051</b>

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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.  <b>OUTLINE</b> 48 FRAME DC - S56C MOUNT  MATERIAL PROCESS/FINISH  SIZE DRAWING NUMBER <b>B 031880</b>  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		



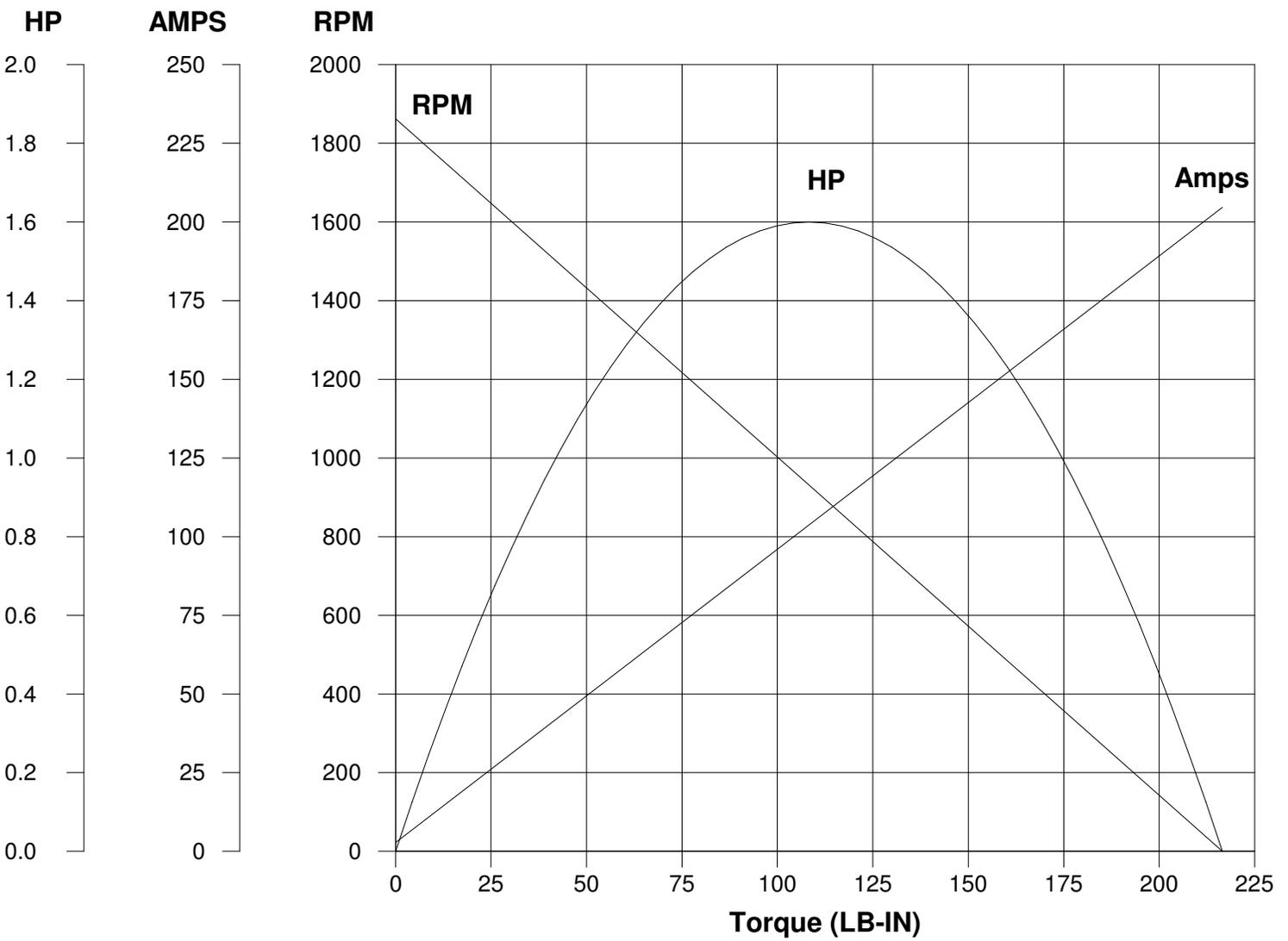
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR  
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

				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		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		
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

# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

**Model No.** C4D17NK10                      **Catalog No.** 108051.00  
**HP** 0.500                      **RPM** 1800                      **DC Volts** 24.0                      **N.P. FLA** 20.00  
**F.F.** 1.00                      **Encl** TENV                      **Type** DN                      **S.F.** 1.00  
**Max. Amb.** 40.0 Deg C                      **Insul.** F                      **Frame** S56C                      **Duty** CONT



<b>Ra</b> <u>0.07800</u> Ohms <b>La</b> <u>1.400</u> mHenrys <b>Ja</b> <u>7.200</u> LB-IN <sup>2</sup> <b>Ke</b> <u>12.72</u> V/KRPM	<b>Kt</b> <u>1.075</u> LB-IN/AMP <b>Imax</b> <u>220.0</u> AMPS Allowed <b>FL Torque</b> <u>17.50</u> LB-IN <b>FL EFF</b> <u>77.00</u> %
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**Winding W-** D56285-1                      **Prepared by** S. Bernhardt                      **Date** 09-09-2009