

PRODUCT INFORMATION PACKET



Model No: 109106.00
Catalog No: 109106.00
Low Voltage Motor, 2 HP, 24 V, 1800 RPM, S56CZ Frame, TEFC



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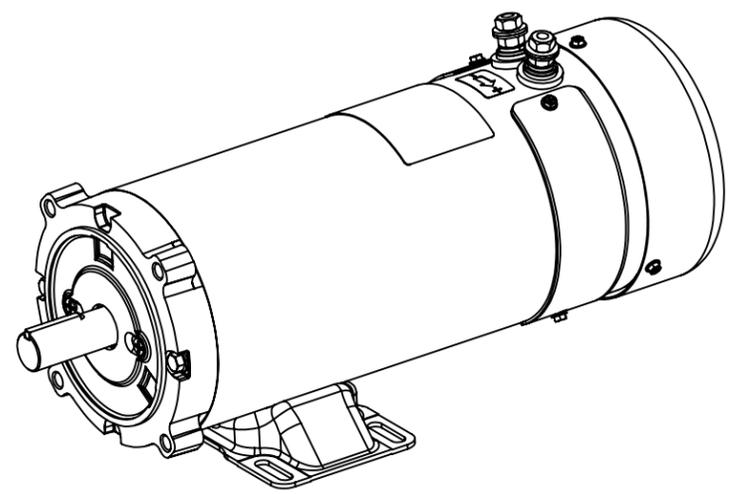
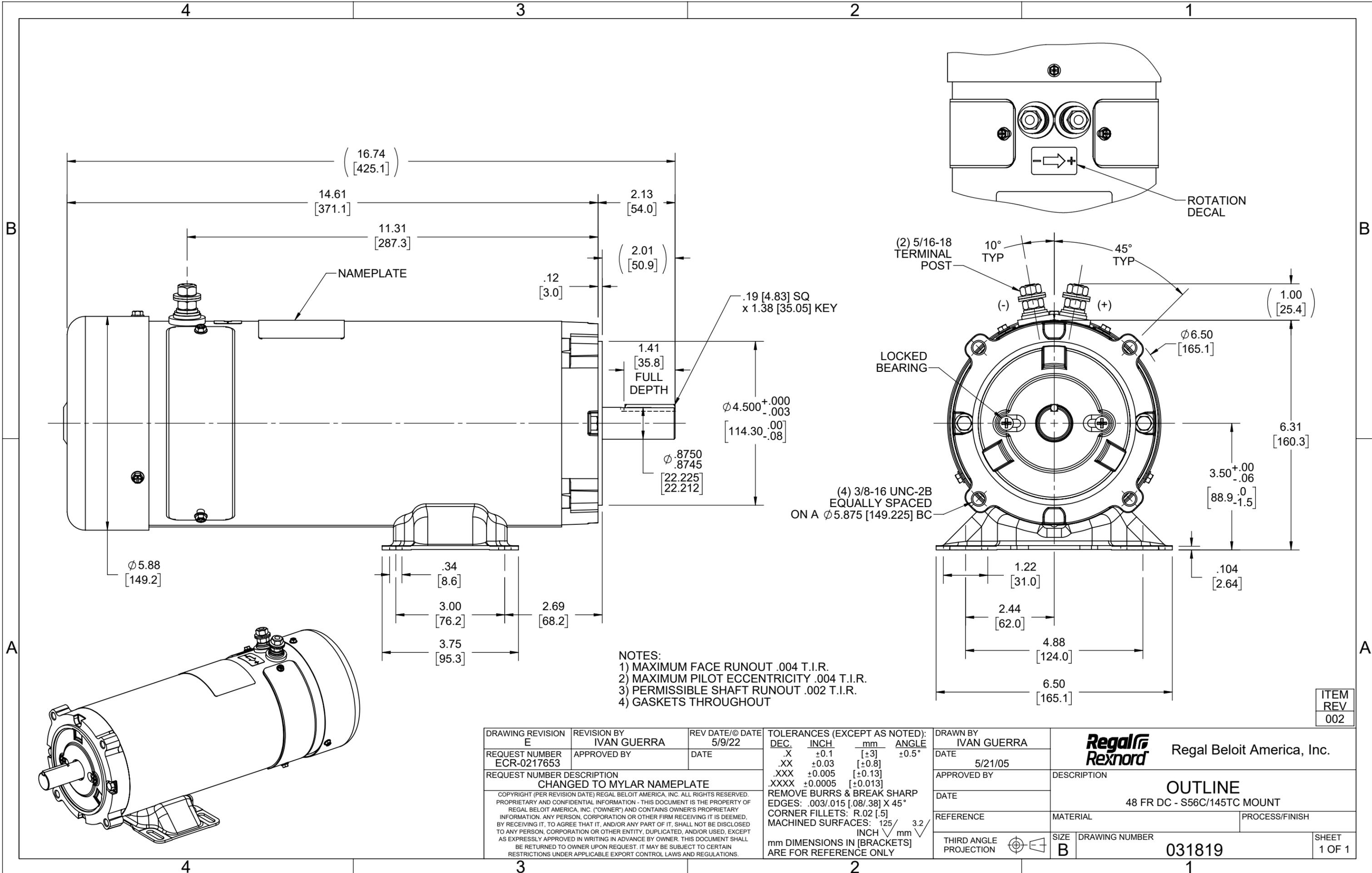
Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Voltage	24 V	Speed	1800 rpm
Service Factor	1.0	Frame	S56CZ
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	85.8 %	Ambient Temperature	40 °C
Current	70.0 A	Duty	Continuous
Insulation Class	F	Drive End Bearing Size	6205
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

Technical Specifications

Rotation	Reversible	Mounting	Rigid C base
Overall Length	16.74 in	Frame Length	11.50 in
Shaft Diameter	0.875 in	Shaft Extension	2.13 in
Torque	70 LB-IN		
Outline Drawing	031819	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

DRAWING REVISION E	REVISION BY IVAN GUERRA	REV DATE/© DATE 5/9/22	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE	DRAWN BY IVAN GUERRA	Regal Beloit America, Inc.
REQUEST NUMBER ECR-0217653	APPROVED BY	DATE	.X ±0.1 [±3] ±0.5° .XX ±0.03 [±0.8] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013]	DATE 5/21/05	
REQUEST NUMBER DESCRIPTION CHANGED TO MYLAR NAMEPLATE			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.08/.38] X 45° CORNER FILLETS: R.02 [5] MACHINED SURFACES: 125/3.2 INCH/mm	APPROVED BY	DESCRIPTION OUTLINE
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				REFERENCE	MATERIAL PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE B DRAWING NUMBER 031819 SHEET 1 OF 1



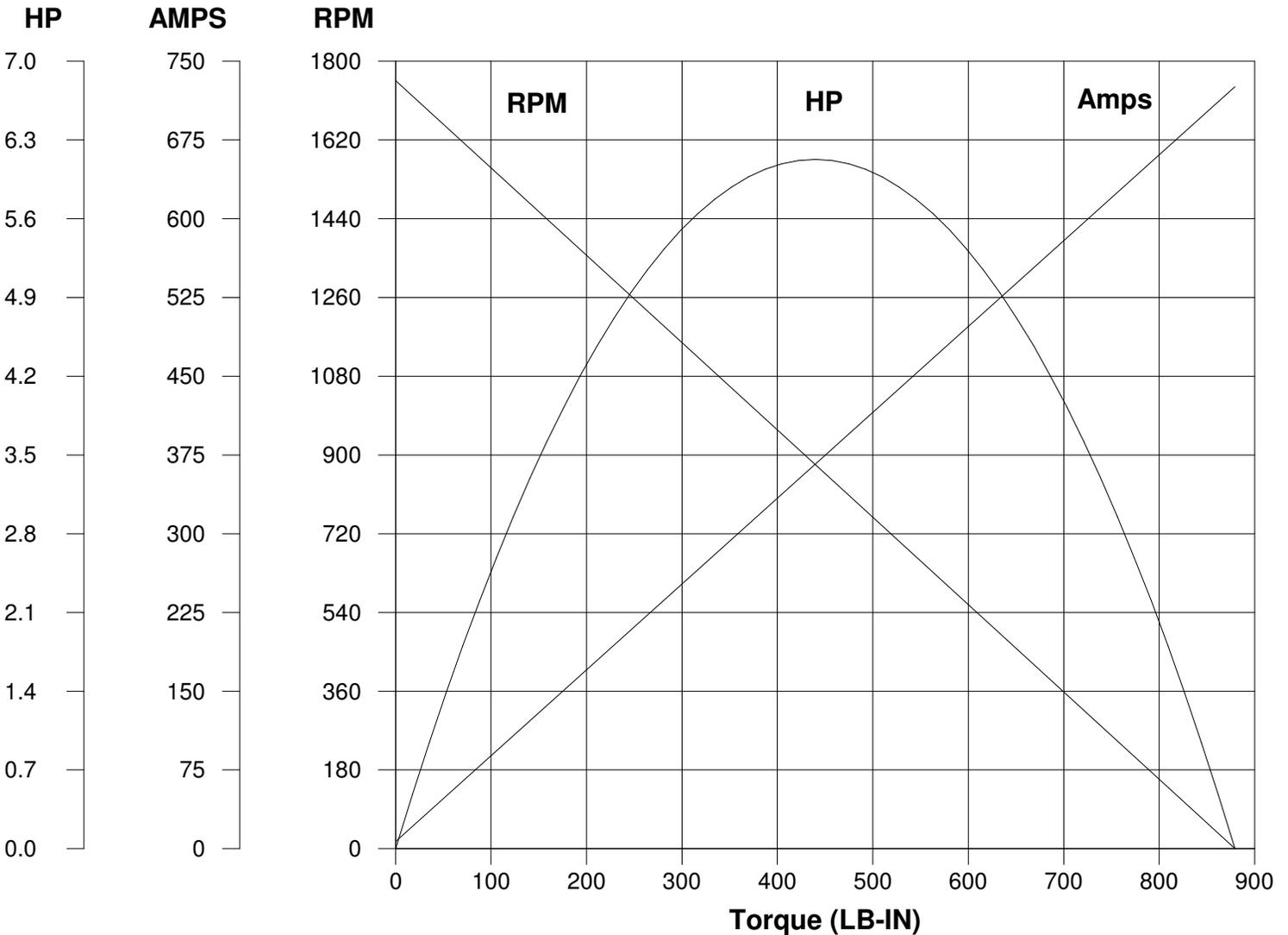
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

				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

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. C4D18FK6 **Catalog No.** 109106.00
HP 2.000 **RPM** 1800 **DC Volts** 24.0 **N.P. FLA** 70.00
F.F. 1.00 **Encl** TEFC **Type** DF **S.F.** 1.00
Max. Amb. 40.0 Deg C **Insul.** F **Frame** ZLS56CZ **Duty** CONT



Ra <u>0.05800</u> Ohms La <u>0.1700</u> mHenrys Ja <u>22.98</u> LB-IN ² Ke <u>13.64</u> V/KRPM	Kt <u>1.153</u> LB-IN/AMP Imax <u>1376.6</u> AMPS Allowed FL Torque <u>70.00</u> LB-IN FL EFF <u>85.80</u> %
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Winding W- D63426-1 **Prepared by** S. Bernhardt **Date** 06-26-2008