

PRODUCT INFORMATION PACKET



Model No: 109101.00
Catalog No: 109101.00
Low Voltage Motor, 1 HP, 36 V, 1800 RPM, S56C Frame, TEFC



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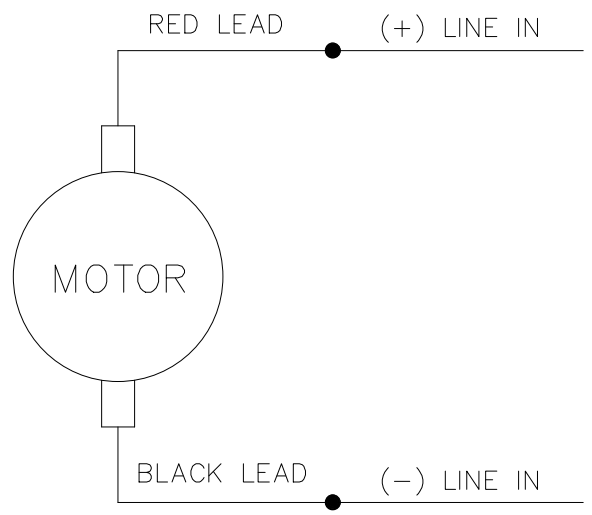
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Voltage	36 V	Speed	1800 rpm
Service Factor	1.0	Frame	S56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	82.8 %	Ambient Temperature	40 °C
Current	25.5 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	13.82 in	Frame Length	6.47 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Torque	35 LB-IN		
Outline Drawing	031891-109101	Connection Drawing	00531901

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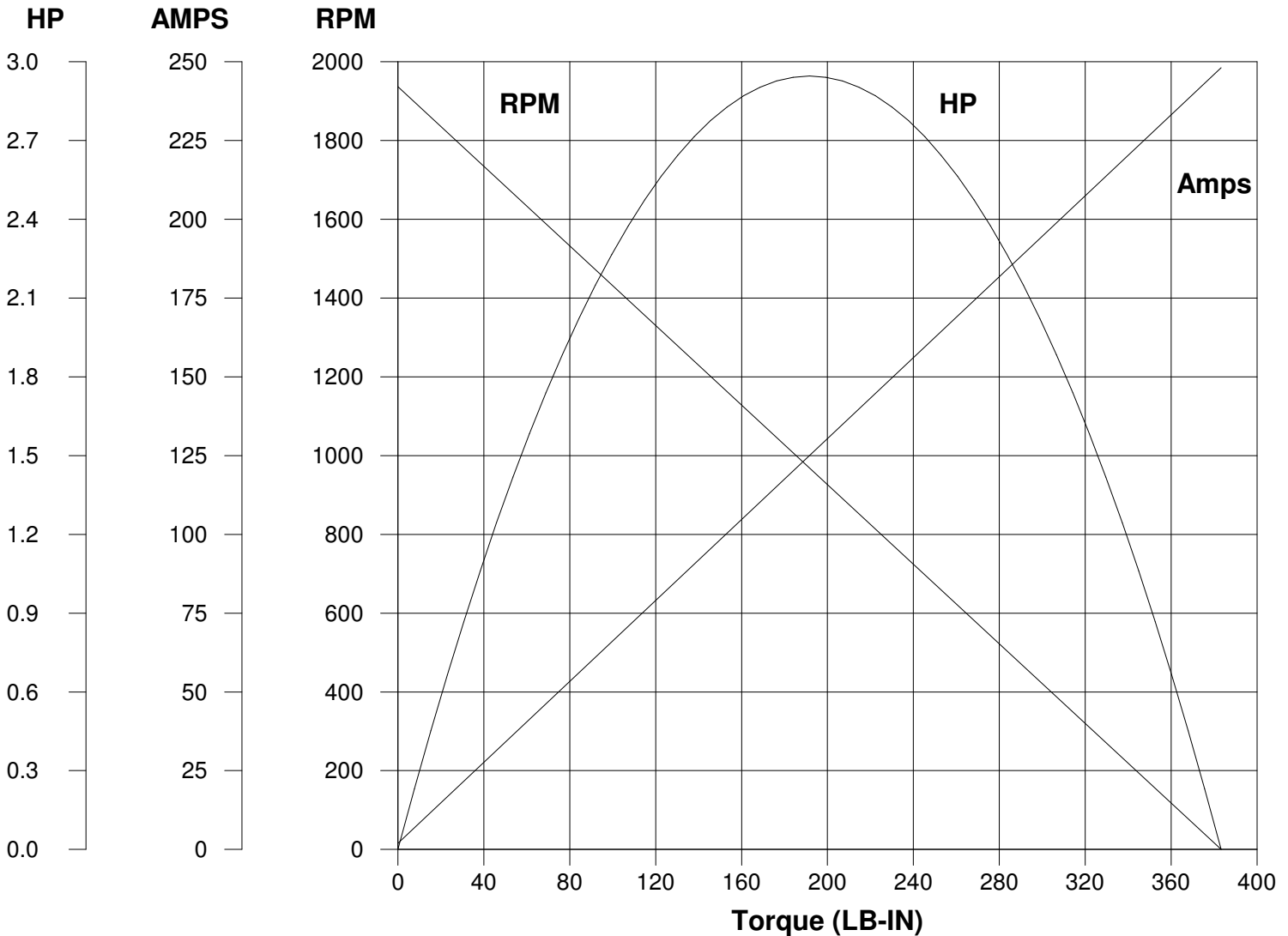
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

				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. <u>C4D18FK1</u>	Catalog No. <u>109101.00</u>	
HP <u>1.000</u>	RPM <u>1800</u>	DC Volts <u>36.0</u>
F.F. <u>1.00</u>	Encl <u>TEFC</u>	Type <u>DF</u>
Max. Amb. <u>40.0 Deg C</u>	Insul. <u>F</u>	Frame <u>S56C</u>
		N.P. FLA <u>25.50</u>
		S.F. <u>1.00</u>
		Duty <u>Cont</u>



Ra <u>0.09500</u> Ohms La <u>2.200</u> mHenrys Ja <u>11.20</u> LB-IN ² Ke <u>18.44</u> V/KRPM	Kt <u>1.559</u> LB-IN/AMP Imax <u>220.0</u> AMPS Allowed FL Torque <u>35.00</u> LB-IN FL EFF <u>82.80</u> %
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Winding W- D56243-1 Prepared by S. Bernhardt Date 05-19-2009