

PRODUCT INFORMATION PACKET



Model No: 108731.00
Catalog No: 108731.00
Parallel Shaft Gearmotor, 0.50 HP, 12 V, 42 RPM, 48Y Frame, TEFC



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Nameplate Specifications

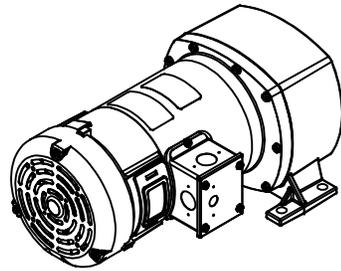
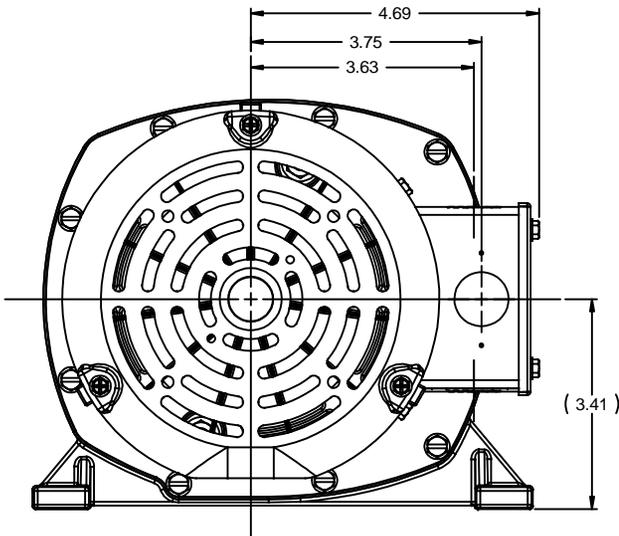
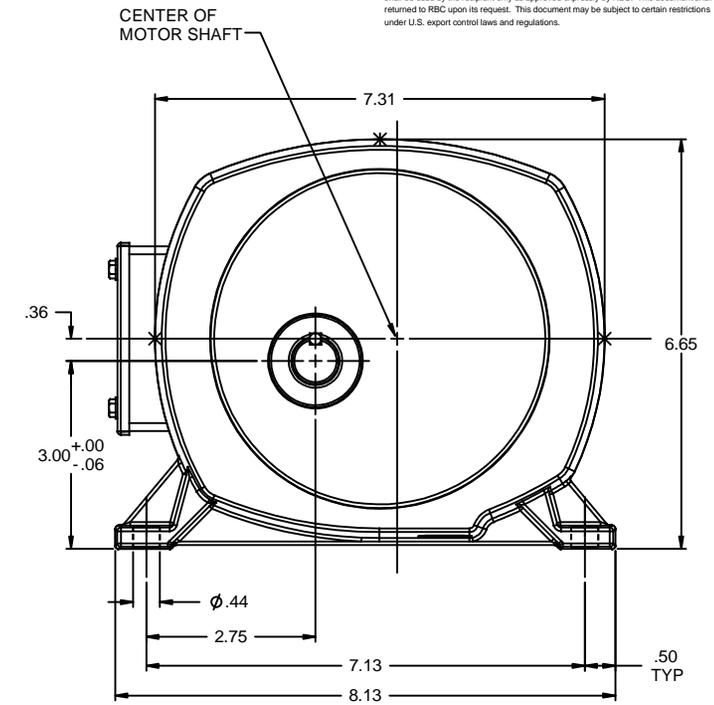
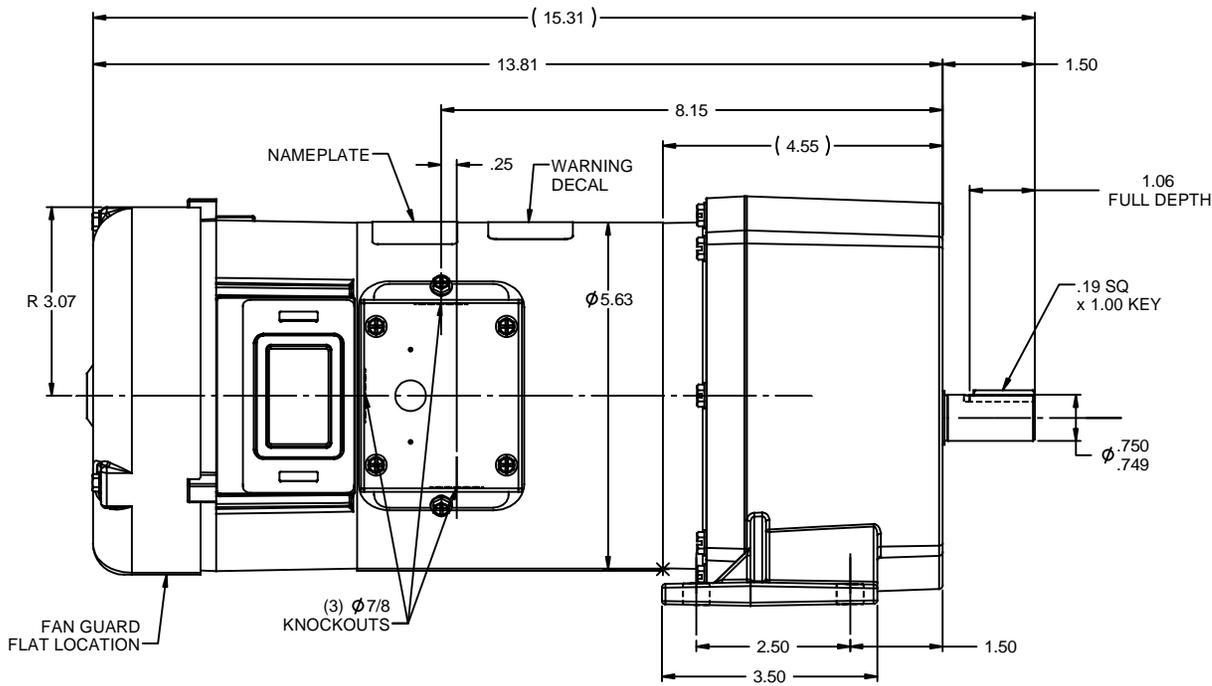
Output HP	0.50 Hp	Output KW	0.37 kW
Voltage	12 V	Speed	42 rpm
Service Factor	1.0	Frame	48Y
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	61.3 %	Ambient Temperature	40 °C
Current	40.0 A	Duty	Continuous
Insulation Class	F	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

Technical Specifications

Rotation	Reversible	Mounting	Special
Shaft Type	Parallel	Overall Length	15.31 in
Frame Length	4.97 in	Shaft Diameter	0.750 in
Shaft Extension	1.5 in	Torque	705 LB-IN
Outline Drawing	032038-108731	Connection Drawing	00531901

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NOTES:
 1) GEARBOX OIL: MOBIL-MOBIL GEAR 600XP-320

108732.00	12	1/2	19:1	92	320
108731.00	12	1/2	42:1	42	705
CATALOG No.	VOLTS	INPUT HP	GEAR RATIO	RPM	F.L. TORQUE (LB-IN)

		TOLERANCES UNLESS SPECIFIED:		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN IPG 6/30/10	
		DEC INCHES				CHK	
		X ±.1		APPR		SCALE 1:2	
		.XX ±.03		TITLE OUTLINE		REF 032031	
		.XXX ±.005		48 FRAME DC - P1100 GEARBOX		FMF 108731.00	
00 RELEASED: REF. 032031 & 031613		IPG 6/30/2010		MATL		PAGE OF	
NO		REVISION		BY & DATE		FINISH	
		THIRD ANGLE PROJECTION		CHK ANG ±1/2°		PREV	
				RFP		SIZE DRAWING NO	
				NETWORK FILE NAME 032038		B 032038	
						REV 00	



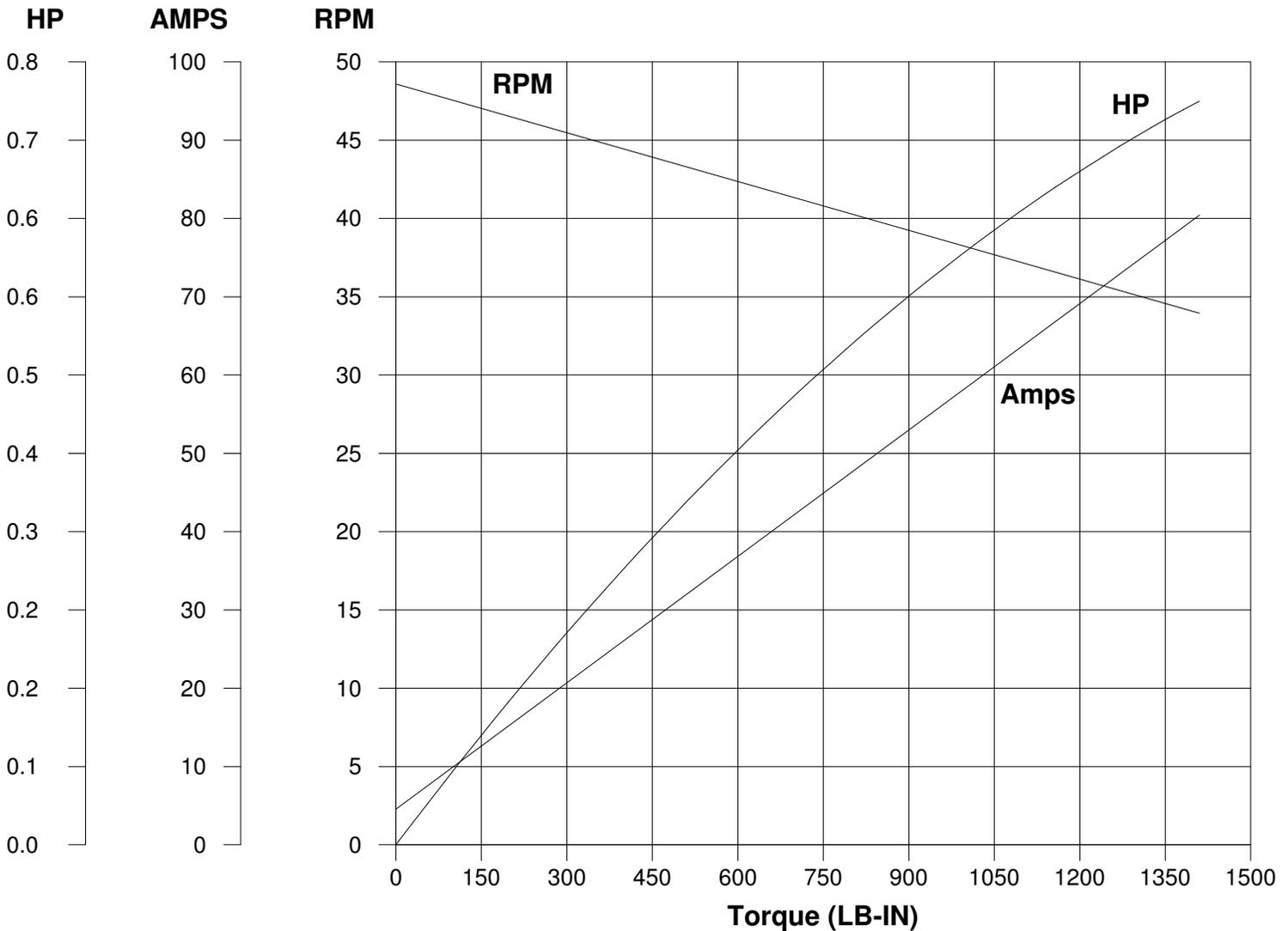
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
 TO REVERSE ROTATION INTERCHANGE LINE LEADS

				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 PMDC MOTOR	APPD POW 11/15/97		
E	"MOTOR" WAS "ARMATURE", ECO-0163602	IPG 3/14/19		.XX	±.01		SCALE 1=2		
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. <u>C4D17FZ52</u>	Catalog No. <u>108731.00</u>	
HP <u>0.500</u>	RPM <u>42</u>	DC Volts <u>12.0</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>P1102-48</u>
		N.P. FLA <u>40.00</u>
		S.F. <u>1.00</u>
		Duty <u>CONT</u>



Ra 0.02400 Ohms
La 0.2650 mHenrys
Ja 5.000 LB-IN²
Ke 5.989 V/KRPM

Kt 0.5062 LB-IN/AMP
Imax 434.0 AMPS Allowed
FL Torque 705.0 LB-IN
FL EFF 68.00 %

Winding W- D552600-1 **Prepared by** V. Boehlen **Date** 11-08-2005