

PRODUCT INFORMATION PACKET



Model No: 108700.00
Catalog No: 108700.00
Parallel Shaft Gearmotor, 0.25 HP, 90 V, 8 RPM, 48Y Frame, TENV



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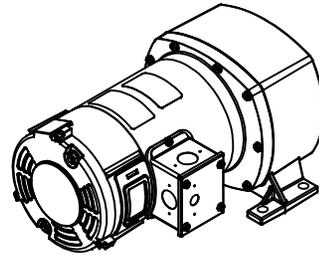
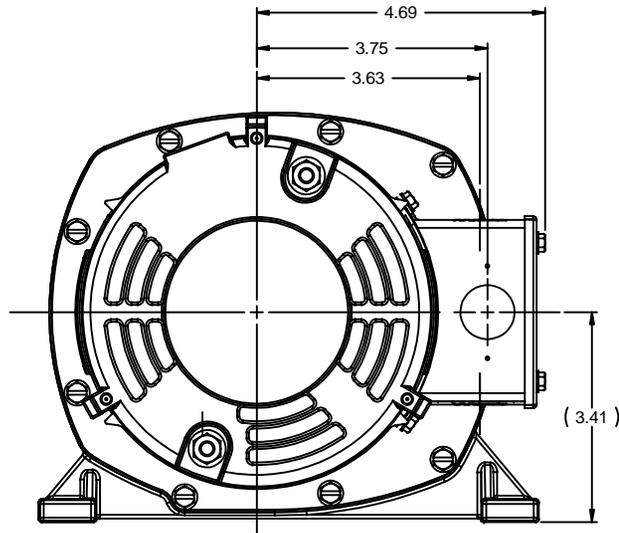
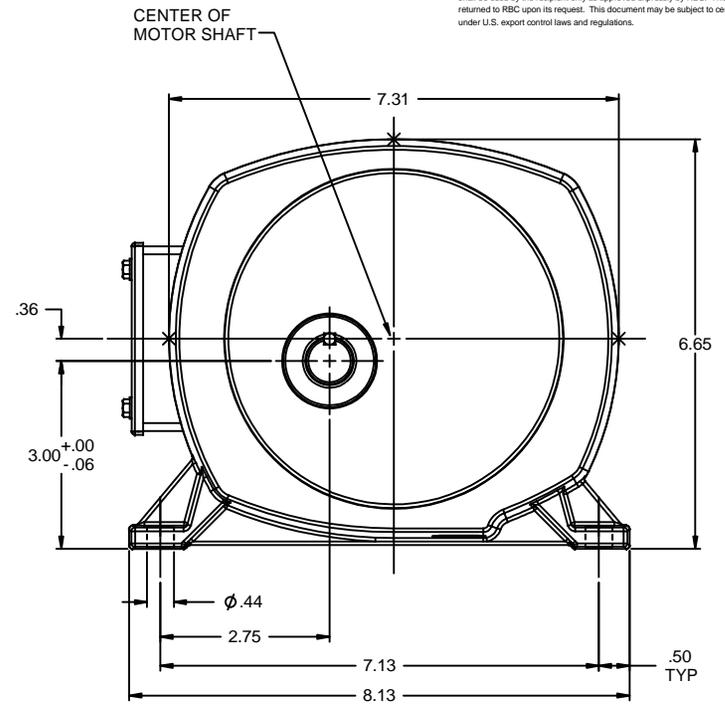
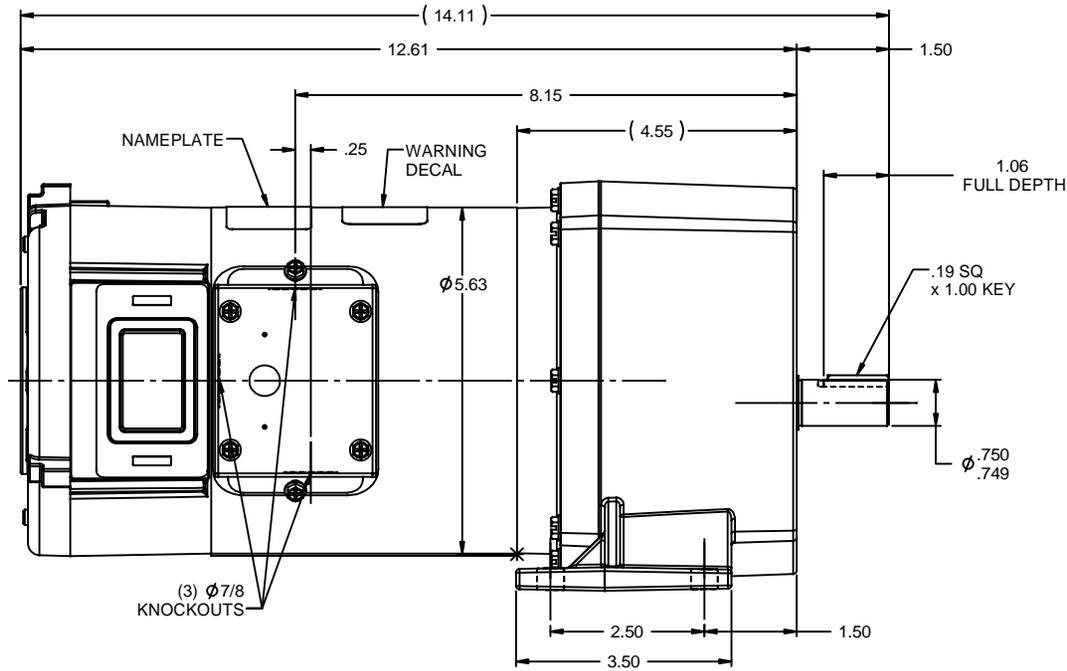
Nameplate Specifications

Output HP	0.25 Hp	Output KW	0.19 kW
Voltage	90 V	Current	2.7 A
Speed	8 rpm	Service Factor	1
Efficiency	56.5 %	Duty	Continuous
Insulation Class	F	Frame	48Y
Enclosure	Totally Enclosed Non Ventilated	Thermal Protection	No Protection
Ambient Temperature	40 °C	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	14.11 in
Frame Length	4.97 in	Shaft Diameter	0.750 in
Shaft Extension	1.5 in	Torque	1087 LB-IN
Connection Drawing	00531901	Outline Drawing	032033-108700

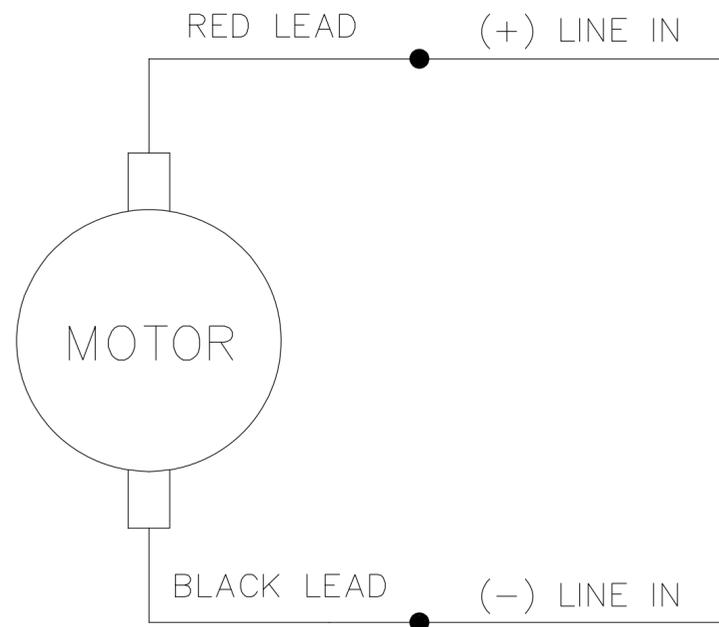
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NOTES:
 1) GEARBOX OIL: MOBIL-MOBIL GEAR 600XP-320

CATALOG No.	VOLTS	INPUT HP	GEAR RATIO	RPM	F.L. TORQUE (LB-IN)
108706.00	90	1/4	13:1	135	105
108705.00	90	1/4	19:1	92	160
108704.00	90	1/4	29:1	60	238
108703.00	90	1/4	42:1	42	353
108702.00	90	1/4	95:1	18	750
108701.00	90	1/4	143:1	12	1030
108700.00	90	1/4	212:1	8	1087

TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN IPG 6/9/10
DEC	INCHES			
x	±.1		APPR	
.xx	±.03	TITLE	SCALE	1:2
.xxx	±.005	48 FRAME DC - P1100 GEARBOX	REF	031210
.xxxx	±.0005	MATL	FMF	108700.00
NO	REVISION	BY & DATE	CHK	ANG ±1/2°
			RFP	PREV
			SIZE	DRAWING NO
			B	032033
		THIRD ANGLE PROJECTION	NETWORK FILE NAME	032033
			PAGE	OF



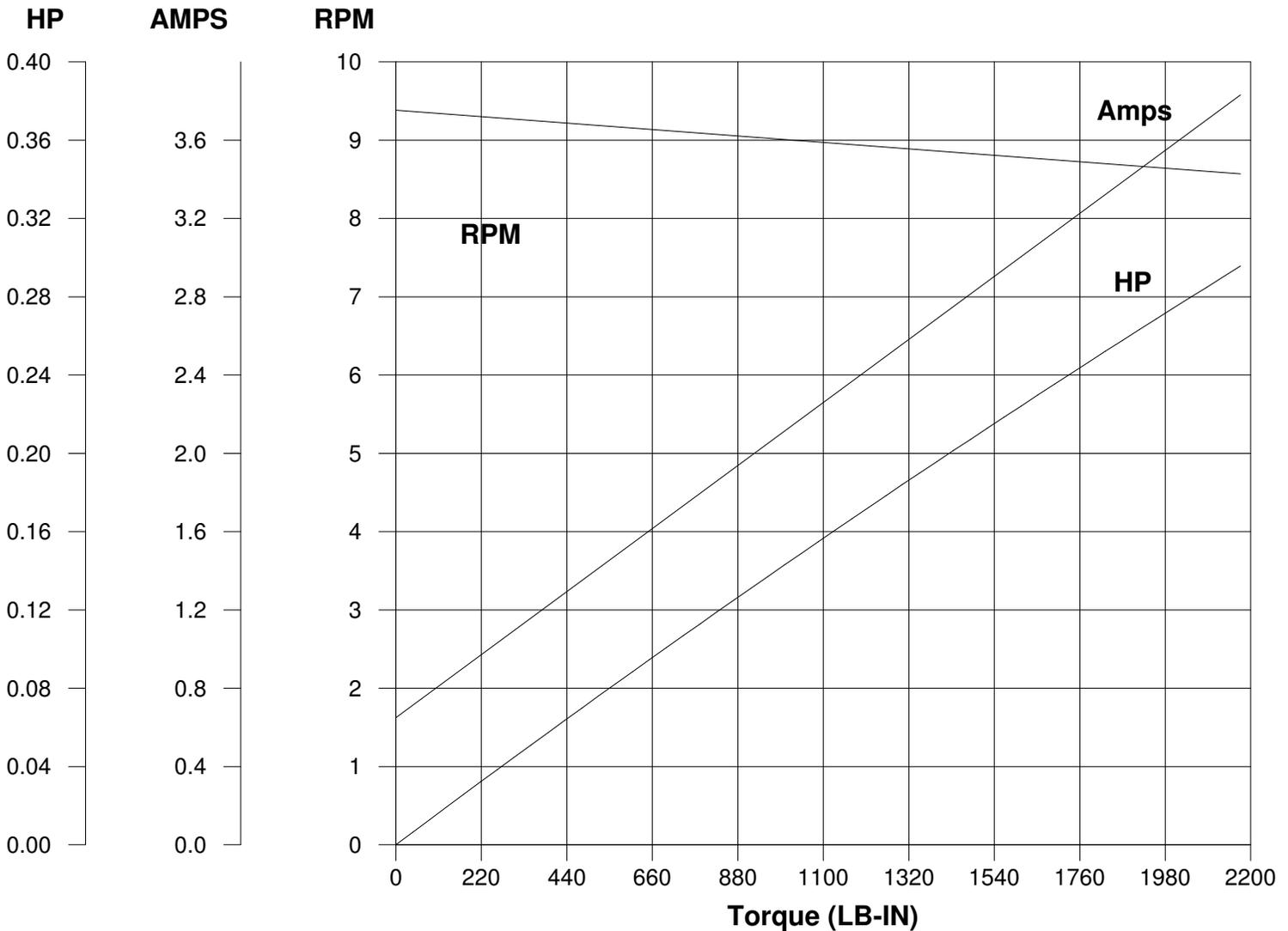
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
TO REVERSE ROTATION INTERCHANGE LINE LEADS

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN TJF 11/15/97	
				DEC.	INCHES				CHK
				.X	±.1			APPD POW 11/15/97	
E	"MOTOR" WAS "ARMATURE", ECO-0163602	IPG 3/14/19		.XX	±.01	TITLE	EXTERNAL WIRING DIAGRAM PMDC MOTOR	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	
				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 A	DRAWING NO. 005319.01	REV. E
				DIST					

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. <u>C4D17NZ17</u>	Catalog No. <u>108700.00</u>	
HP <u>0.250</u>	RPM <u>8</u>	DC Volts <u>90.0</u>
F.F. <u>1.38</u>	Encl <u>TENV</u>	Type <u>DN</u>
Max. Amb. <u>40.0 Deg C</u>	Insul. <u>F</u>	Frame <u>P1103-48</u>
		N.P. FLA <u>2.70</u>
		S.F. <u>1.00</u>
		Duty <u>Cont</u>



Ra	<u>1.9500</u>	Ohms
La	<u>15.30</u>	mHenrys
Ja	<u>5.000</u>	LB-IN ²
Ke	<u>45.75</u>	V/KRPM

Kt	<u>3.867</u>	LB-IN/AMP
Imax	<u>48.2</u>	AMPS Allowed
FL Torque	<u>1087</u>	LB-IN
FL EFF	<u>58.70</u>	%

Winding W- D552141-1 **Prepared by** V. Boehlen **Date** 10-26-2005