

PRODUCT INFORMATION PACKET



Model No: 108708.00
Catalog No: 108708.00
Parallel Shaft Gearmotor, 0.50 HP, 90 V, 33 RPM, 48Y Frame, TEFC



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Nameplate Specifications

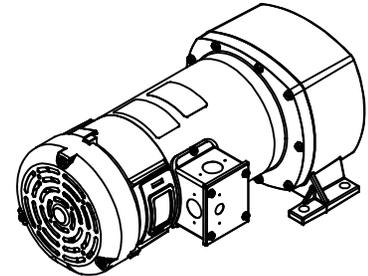
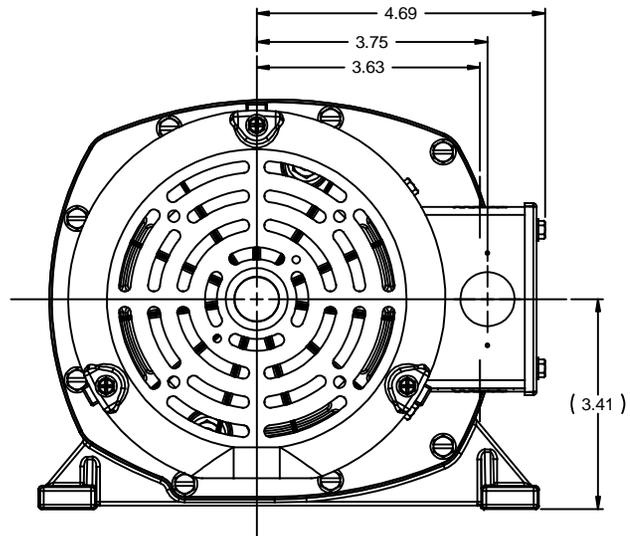
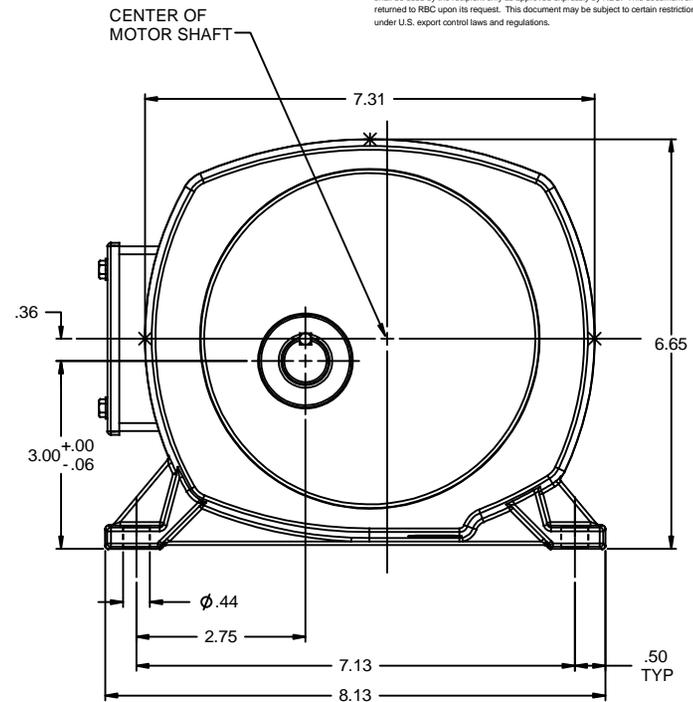
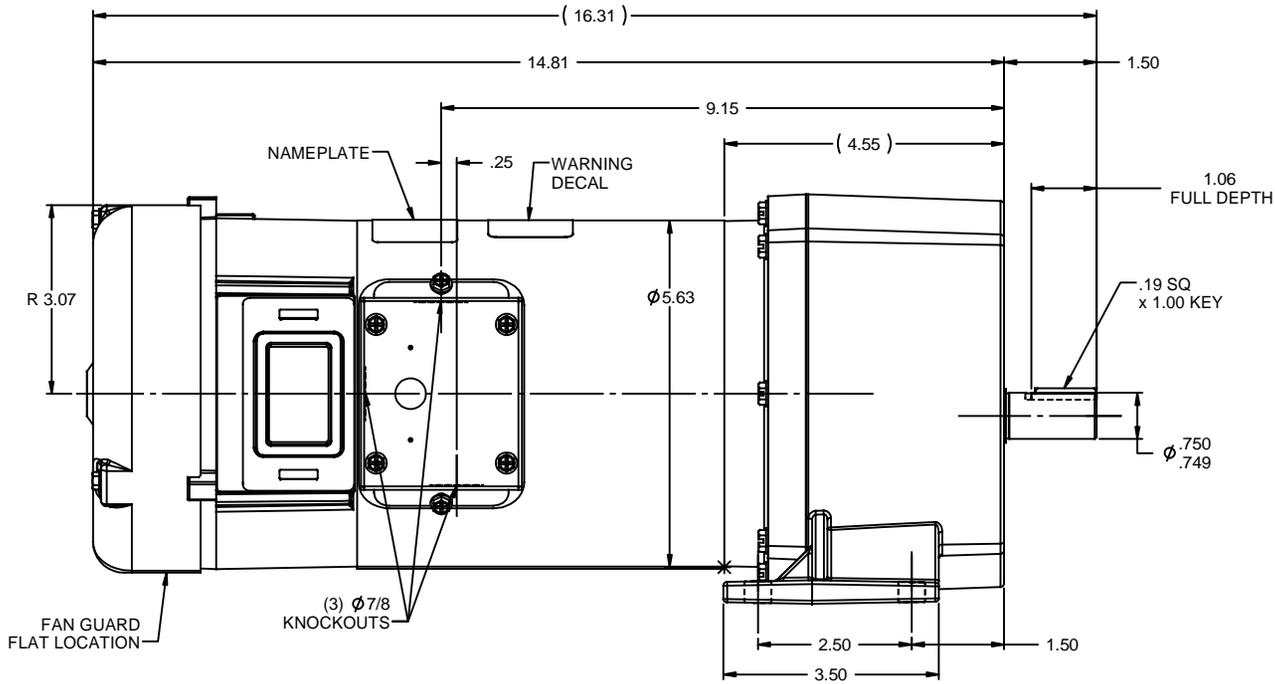
Output HP	0.50 Hp	Output KW	0.37 kW
Voltage	90 V	Current	5.0 A
Speed	33 rpm	Service Factor	1
Efficiency	68.3 %	Duty	Continuous
Insulation Class	F	Frame	48Y
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

Technical Specifications

Rotation	Reversible	Mounting	Special
Shaft Type	Parallel	Overall Length	16.31 in
Frame Length	5.97 in	Shaft Diameter	0.750 in
Shaft Extension	1.5 in	Torque	822 LB-IN
Connection Drawing	00531901	Outline Drawing	032031-108708

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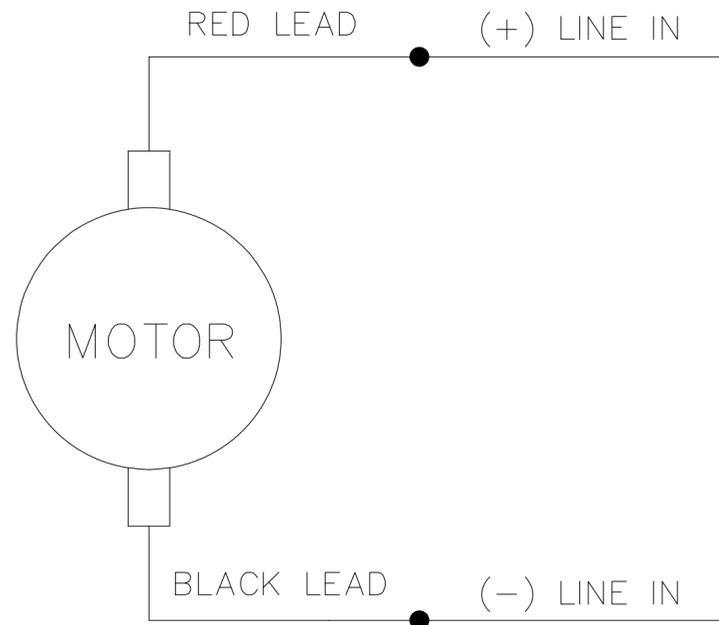
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NOTES:
 1) GEARBOX OIL: MOBIL-MOBIL GEAR 600XP-320

108712.00	90	1/2	13:1	135	210
108711.00	90	1/2	19:1	92	320
108710.00	90	1/2	29:1	60	476
108709.00	90	1/2	42:1	42	705
108708.00	90	1/2	53:1	33	822
108707.00	90	1/2	95:1	18	1112
CATALOG No.	VOLTS	INPUT HP	GEAR RATIO	RPM	F.L. TORQUE (LB-IN)

TOLERANCES UNLESS SPECIFIED		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN IPG 6/2/10	
DEC	INCHES	LEESON		CHK	PG 6/2/10
x	±.1	TITLE OUTLINE		APPR	
.xx	±.03	48 FRAME DC - P1100 GEARBOX		SCALE	1:2
.xxx	±.005	REF	031211	REF	031211
.00	RELEASED: REF. 031211 & 031879	IPG	6/2/2010	FMF	108709.00
PG	xxx	MATL		PAGE	OF
NO	REVISION	BY & DATE	CHK ANG ±1/2°	FINISH	
	THIRD ANGLE PROJECTION	RFP	PREV	SIZE	DRAWING NO
		NETWORK FILE NAME	032031	B	032031
				REV	00



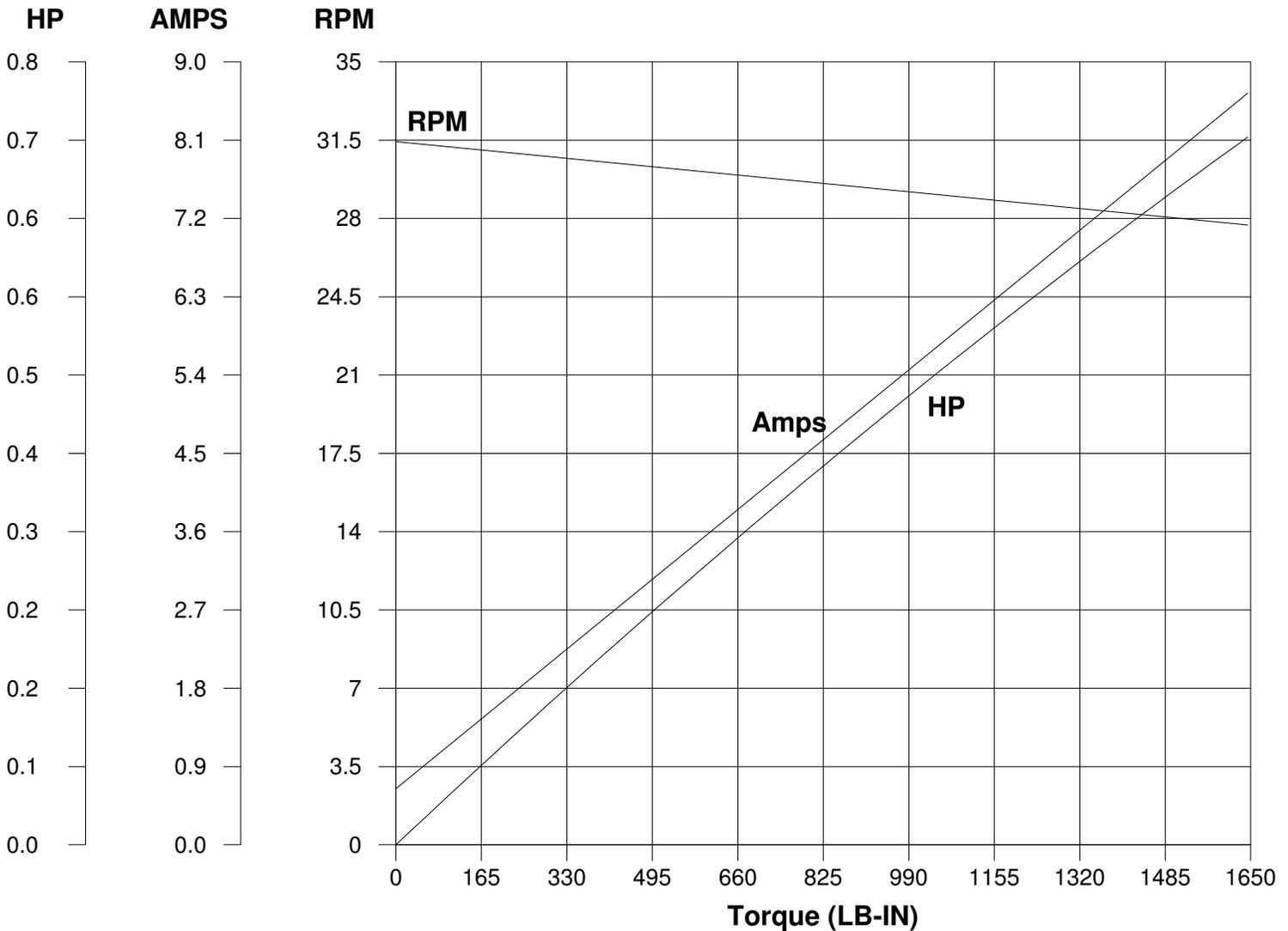
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
TO REVERSE ROTATION INTERCHANGE LINE LEADS

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>C4D17FZ24</u>	Catalog No. <u>108708.00</u>	
HP <u>0.500</u>	RPM <u>33</u>	DC Volts <u>90.0</u>
F.F. <u>1.38</u>	Encl <u>TEFC</u>	Type <u>DF</u>
Max. Amb. <u>40.0 Deg C</u>	Insul. <u>F</u>	Frame <u>P1103-48</u>
		N.P. FLA <u>5.00</u>
		S.F. <u>1.00</u>
		Duty <u>Cont</u>



Ra	<u>1.0300</u>	Ohms
La	<u>10.04</u>	mHenrys
Ja	<u>7.188</u>	LB-IN ²
Ke	<u>51.83</u>	V/KRPM

Kt	<u>4.381</u>	LB-IN/AMP
Imax	<u>66.8</u>	AMPS Allowed
FL Torque	<u>822.0</u>	LB-IN
FL EFF	<u>68.80</u>	%

Winding W- D55284-1 Prepared by V. Boehlen Date 11-07-2005