

PRODUCT INFORMATION PACKET



Model No: 108709.00
Catalog No: 108709.00
Parallel Shaft Gearmotor, 0.50 HP, 90 V, 42 RPM, 48Y Frame, TEFC



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E





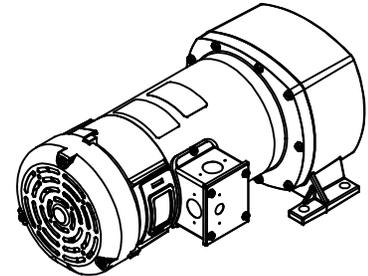
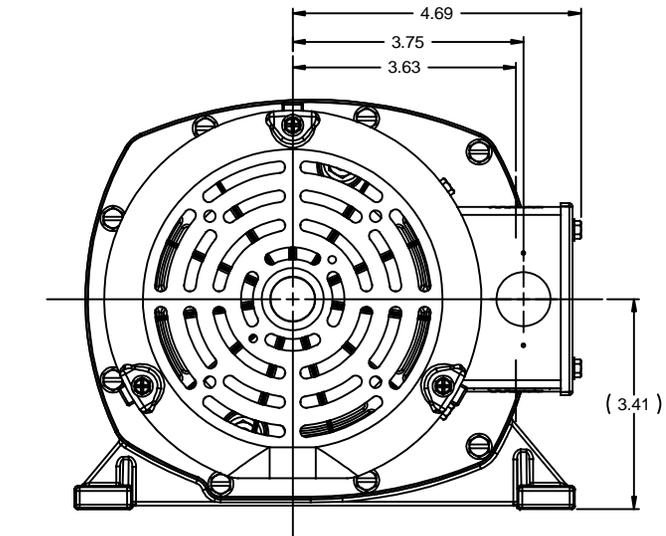
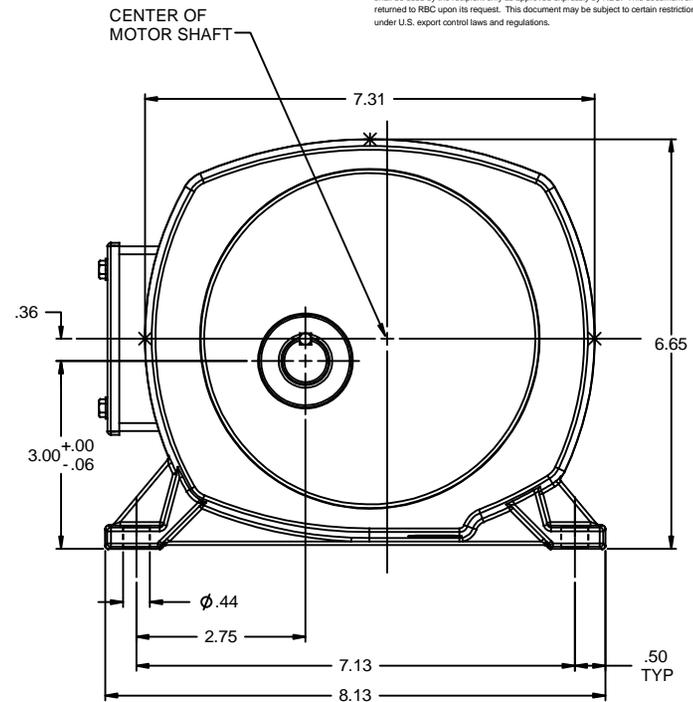
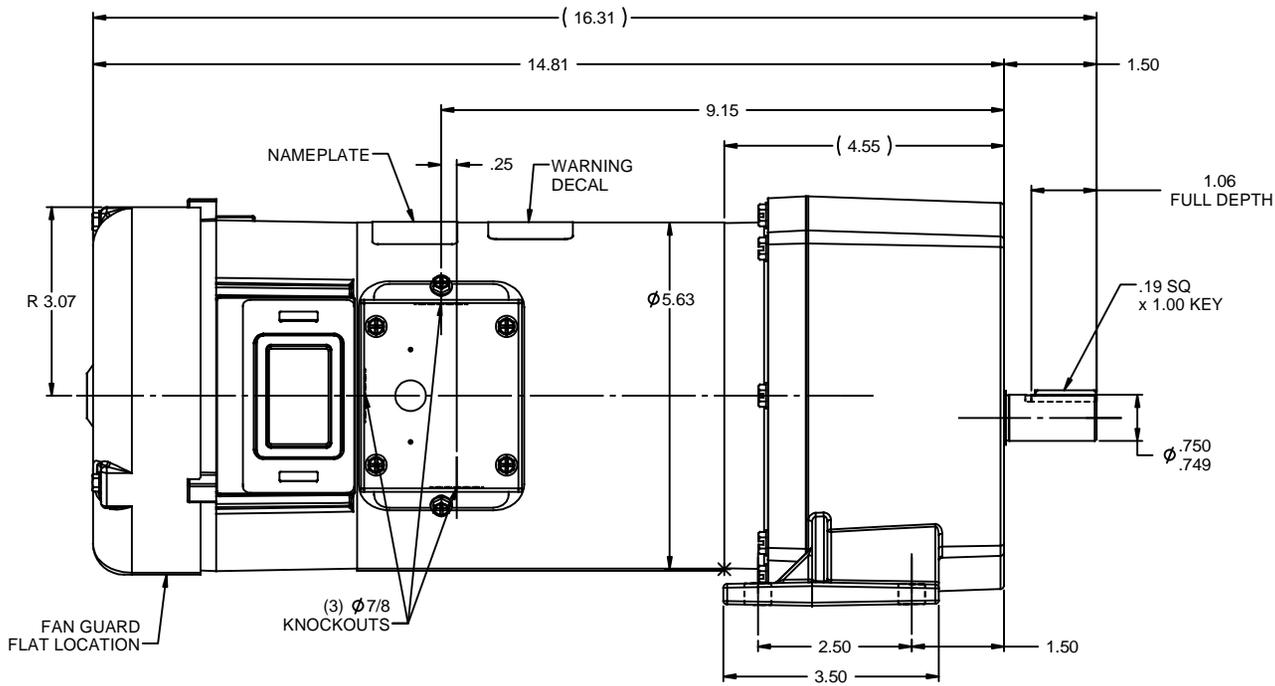
Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Voltage	90 V	Current	5.0 A
Speed	42 rpm	Service Factor	1
Efficiency	72.2 %	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	705 LB-IN
Outline Drawing	032031-108709	Connection Drawing	00531901

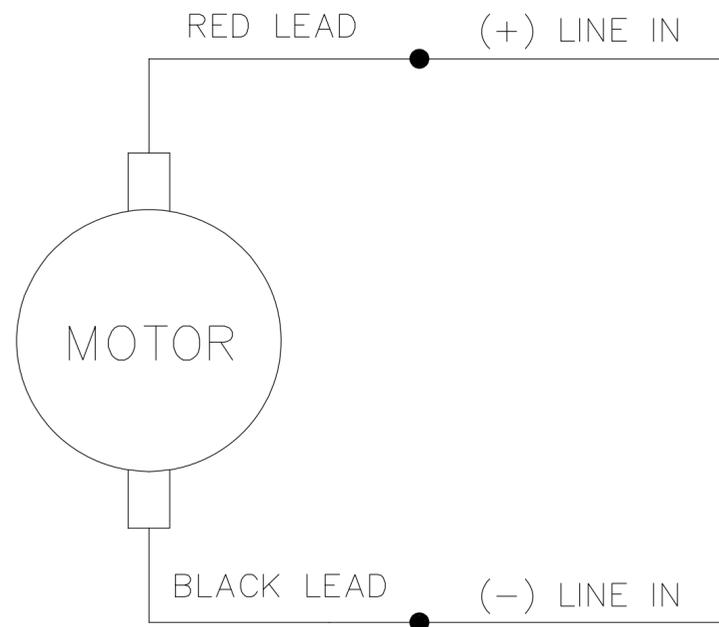
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/20/2022



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
DEC	INCHES			IPG 6/2/10	CHK
X	±.1			APPR	PG 6/2/10
.XX	±.03	TITLE		SCALE	1:2
.XXX	±.005	48 FRAME DC - P1100 GEARBOX		REF	031211
.00	RELEASED: REF. 031211 & 031879	IPG	6/2/2010	PG	XXX ±.0005
NO	REVISION	BY & DATE	CHK	ANG	±1/2"
THIRD ANGLE PROJECTION			RFP	PREV	
			NETWORK FILE NAME	032031	
				SIZE	DRAWING NO
				B	032031
				REV	00



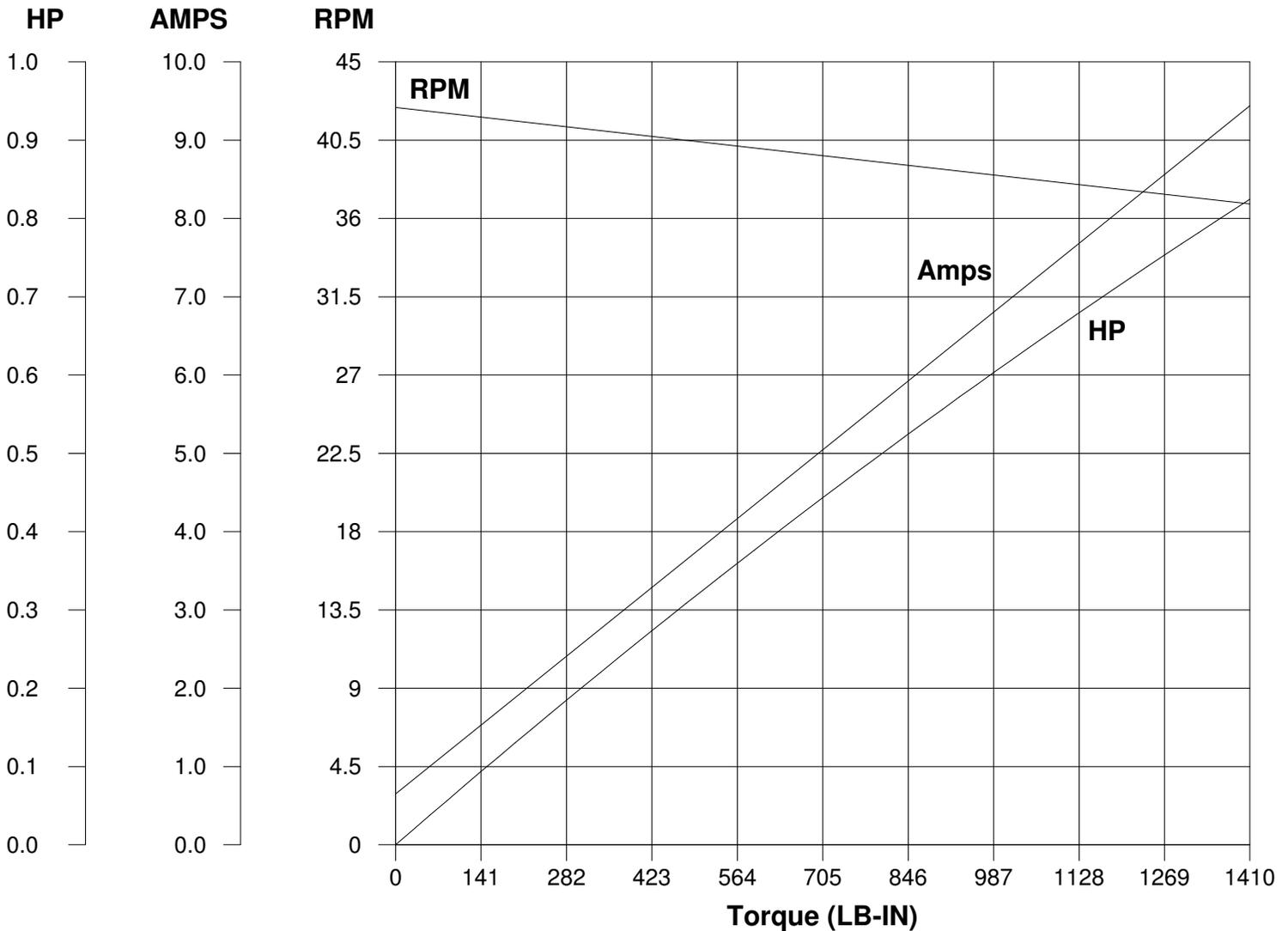
CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
TO REVERSE ROTATION INTERCHANGE LINE LEADS

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>C4D17FZ25</u>	Catalog No. <u>108709.00</u>	
HP <u>0.500</u>	RPM <u>42</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>P1102-48</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>705.0</u>	LB-IN
FL EFF	<u>72.80</u>	%

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