

PRODUCT INFORMATION PACKET



Model No: 108702.00
Catalog No: 108702.00
Parallel Shaft Gearmotor, 0.25 HP, 90 V, 18 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	18 rpm	Service Factor	1
Efficiency	61.1 %	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	750 LB-IN
Connection Drawing	00531901	Outline Drawing	032033-108702

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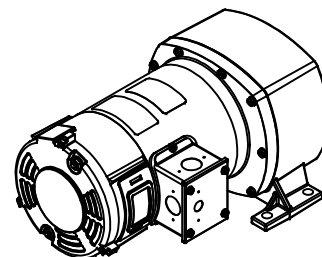
Technical drawing showing the front and side views of a control panel with dimensions and labels.

Dimensions:

- Overall width: 14.11
- Panel width: 12.61
- Mounting flange width: 1.50
- Distance from panel edge to nameplate: 8.15
- Distance from nameplate to warning decal: .25
- Distance from warning decal to mounting flange: (4.55)
- Panel depth: 1.06 FULL DEPTH
- Keyway depth: .19 SQ x 1.00 KEY
- Panel thickness: $\phi .750$ / $\phi .749$
- Distance from panel edge to mounting flange: 2.50
- Distance from mounting flange to panel edge: 3.50
- Distance from panel edge to mounting flange: 1.50

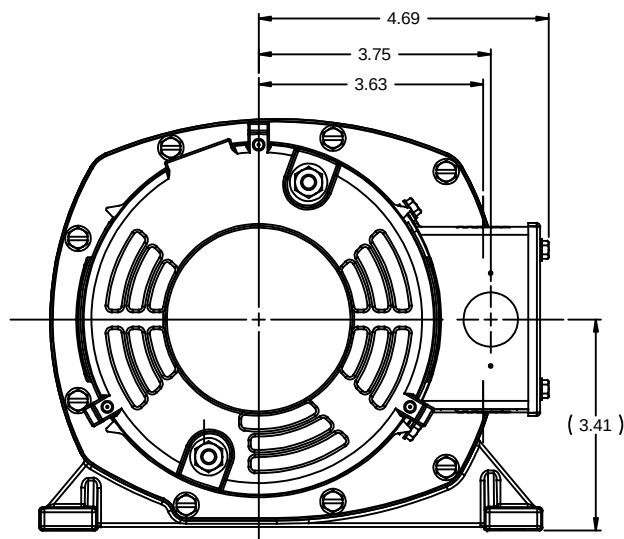
Labels:

- NAMEPLATE
- WARNING DECAL
- $\phi 5.63$
- (3) $\phi 7/8$ KNOCKOUTS

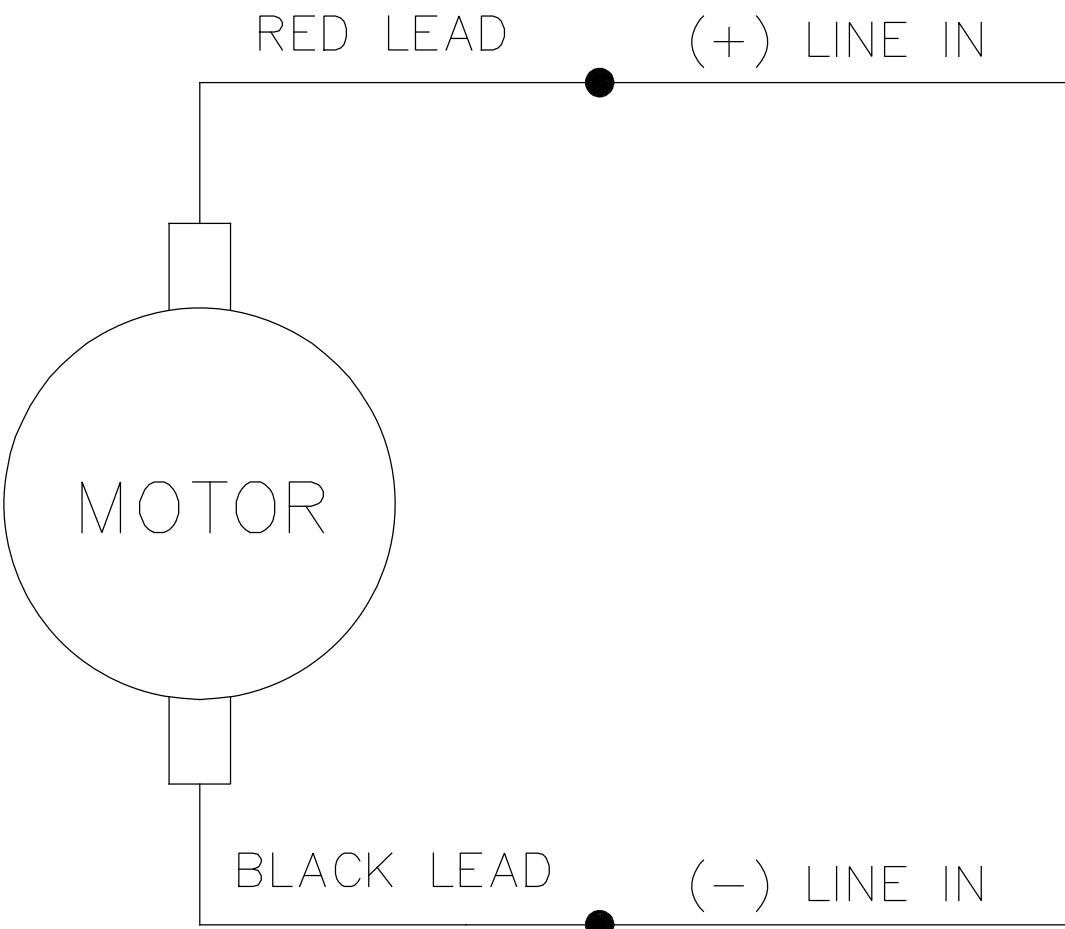


1) GEARBOX OIL: MOBIL-MOBIL GEAR 600XP-320

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
CATALOG No.	VOLTS	INPUT HP	GEAR RATIO	RPM	F.L. TORQUE (LB-IN)

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005319.01



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

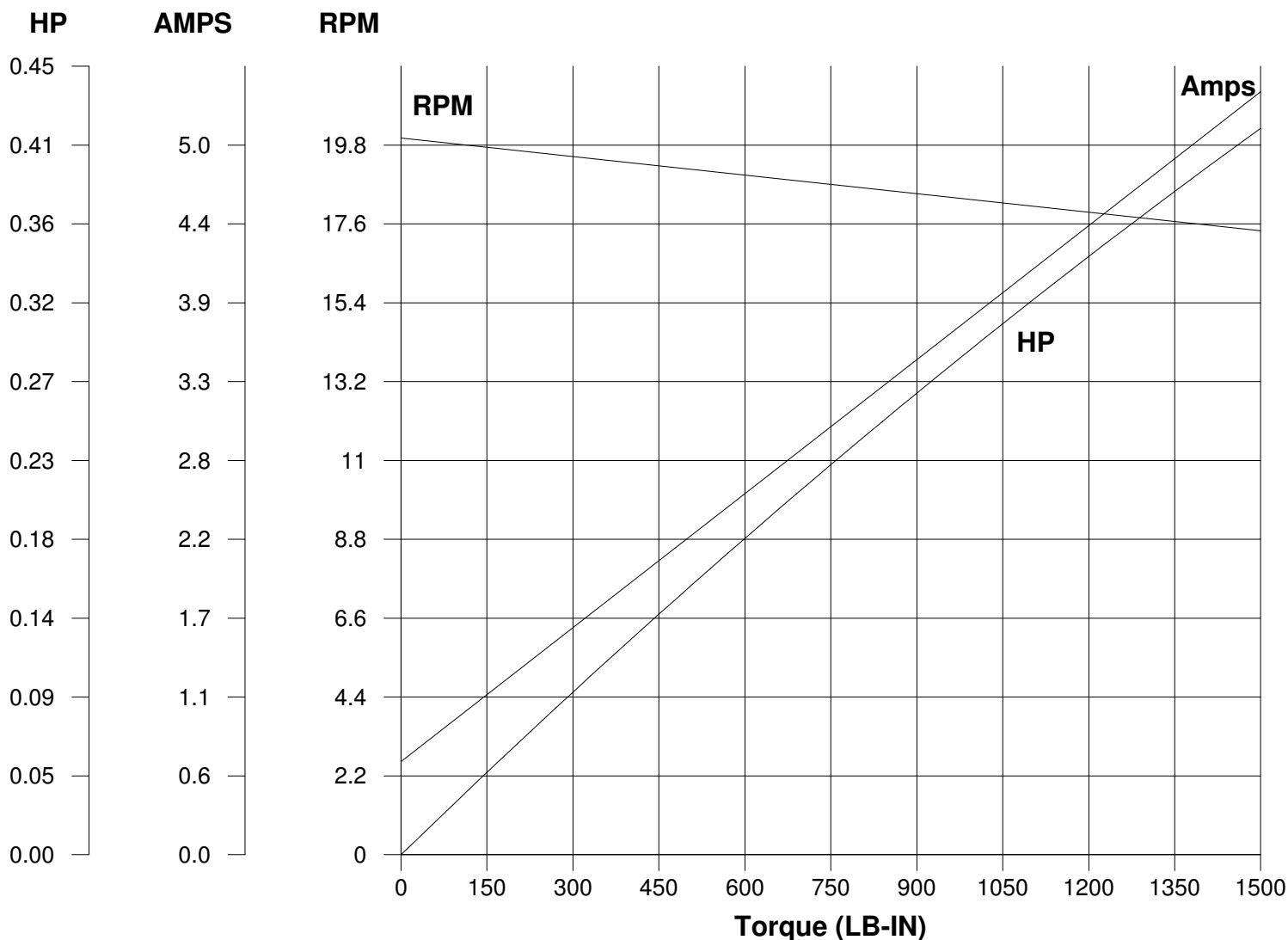
				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES			DRAWN TJF 11/15/97	
				DEC.	INCHES				CHK	
				.X	±.1				APPD POW 11/15/97	
E	"MOTOR" WAS "ARMATURE", ECO-0163602	IPG 3/14/19		.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM PMDC MOTOR			SCALE 1=2	
D	UPDATED TO MAKE IT GENERIC, ECO-0163547	IPG 3/13/19		.XXX	±.005				REF	
01	REDRAWN ON CAD. REVISED NOTES.	SJB 9/20/2005		.XXXX	±.0005	MAT'L.			FMF	
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		E

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE

FOR

DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. C4D17NZ19Catalog No. 108702.00HP 0.250RPM 18DC Volts 90.0N.P. FLA 2.70F.F. 1.38Encl TENVType DNS.F. 1.00Max. Amb. 40.0 Deg CInsul. FFrame P1103-48Duty Cont

Ra 1.9500 Ohms
 La 15.30 mHenrys
 Ja 5.000 LB-IN²
 Ke 45.75 V/KRPM

Kt 3.867 LB-IN/AMP
 I_{max} 48.2 AMPS Allowed
 FL Torque 750.0 LB-IN
 FL EFF 61.70 %

Winding W- D552141-1Prepared by V. BoehlenDate 10-26-2005