

PRODUCT INFORMATION PACKET



Model No: 108053.00
Catalog No: 108053.00
1 HP Low Voltage Motor, 1800 RPM, 24 V, 56C Frame, TEFC
Low Voltage Motors



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Nameplate Specifications

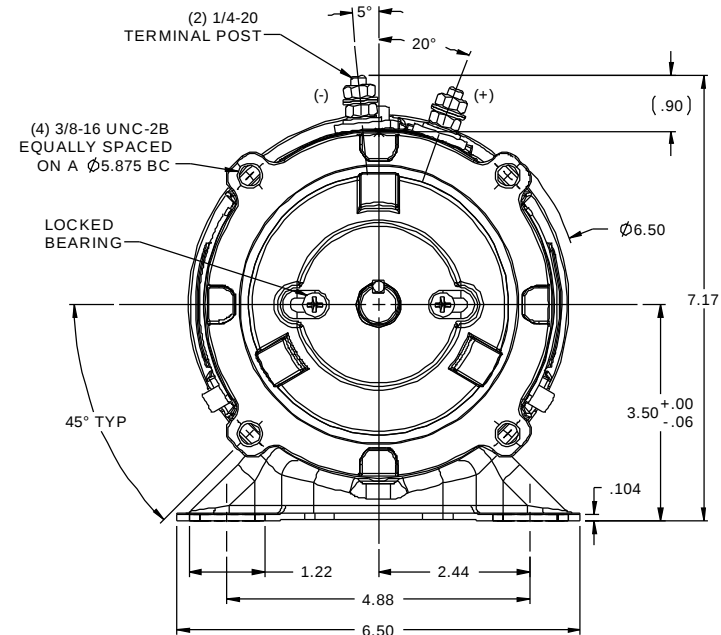
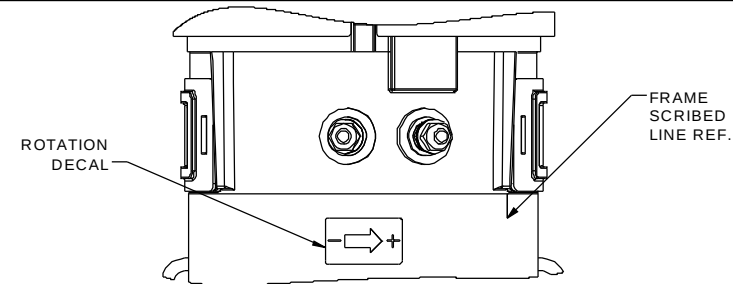
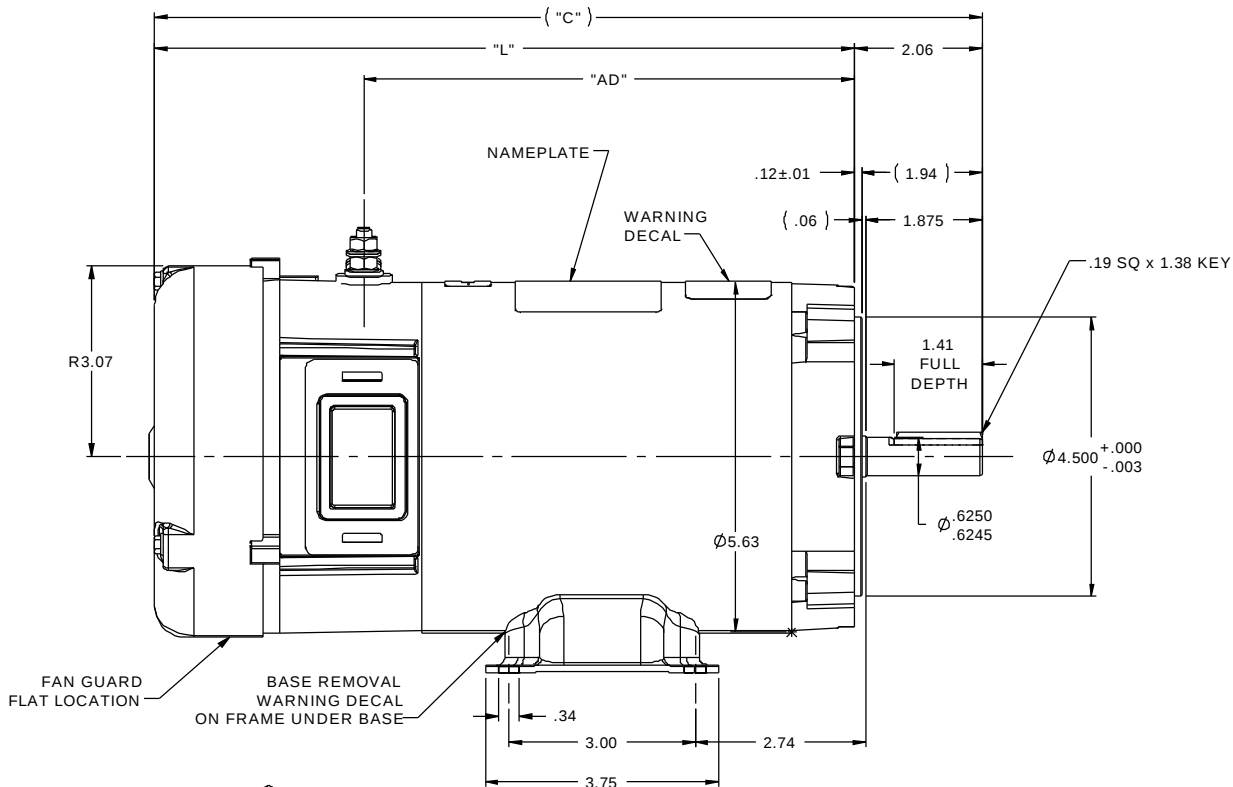
Output HP	1 Hp	Output KW	0.75 kW
Voltage	24 V	Current	39.0 A
Speed	1800 rpm	Service Factor	1
Efficiency	81.3 %	Duty	Continuous
Insulation Class	H	Frame	S56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

Technical Specifications

Rotation	Reversible	Mounting	Rigid C base
Overall Length	13.82 in	Frame Length	6.47 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Torque	35 LB-IN		
Connection Drawing	00531901	Outline Drawing	031886-108053

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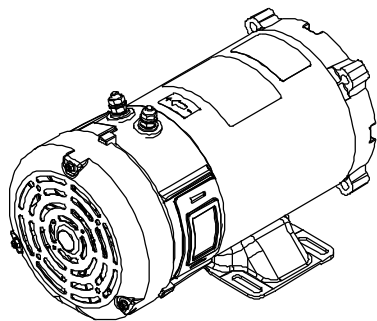
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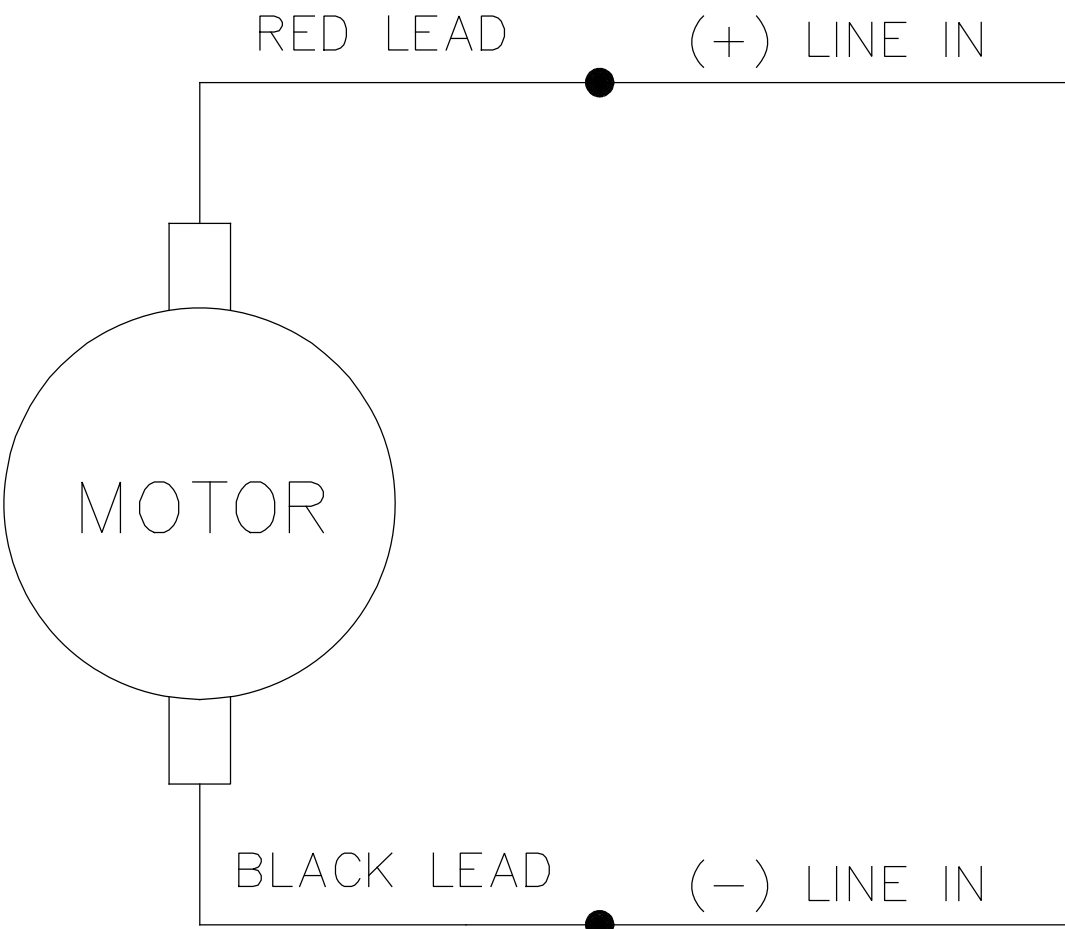
- NOTES:
- 1) MAXIMUM FACE RUNOUT .004 T.I.R.
 - 2) MAXIMUM PILOT ECCENTRICITY .004 T.I.R.
 - 3) PERMISSIBLE SHAFT RUNOUT .002 T.I.R.
 - 4) GASKETS THROUGHOUT.

108053.00	13.82	11.76	8.40	24	1	1800
108048.00	13.32	11.26	7.90	12	3/4	1800
CATALOG No.	"C"	"L"	"AD"	VOLTS	H.P.	RPM

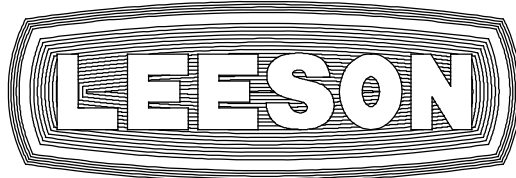
			TOLERANCES UNLESS SPECIFIED		DEC INCHES		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN IPG 4/9/08
02	ADDED EXTRA VIEW PER MFG REQUEST	JJM 9/18/2013	X	±.1					CHK BC 4/9/08
01	ADDED NOTE ABOUT FAN GUARD FLAT LOCATION, ISAAC	IPG 12/4/2009	XX	±.03			TITLE OUTLINE		APPR
09-4813			XXX	±.005			48 FRAME DC		SCALE 1:2
RELEASED		IPG 4/9/2008	BC	XXXX	±.0005				REF 031186
NO	REVISION	BY & DATE	CHK	ANG	±1/2°				FMF 108048.75
			RFP				PREV		PAGE OF
THIRD ANGLE PROJECTION			NETWORK FILE NAME 031886				SIZE B	DRAWING NO 031886	REV 02



005319.01



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

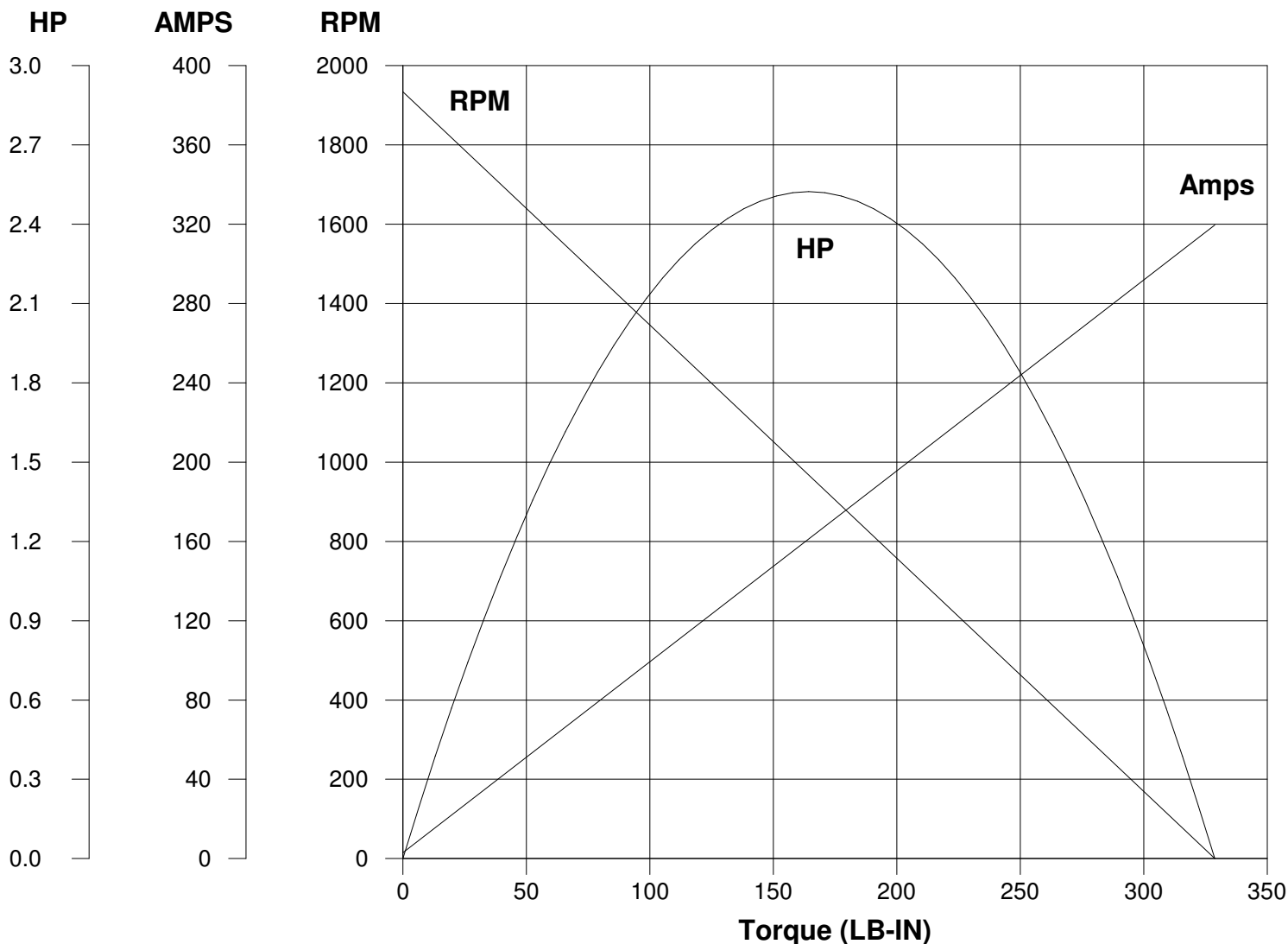
				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES			DRAWN TJF 11/15/97	
				DEC.	INCHES				CHK	
				.X	±.1				APPD POW 11/15/97	
E	"MOTOR" WAS "ARMATURE", ECO-0163602	IPG 3/14/19		.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM PMDC MOTOR			SCALE 1=2	
D	UPDATED TO MAKE IT GENERIC, ECO-0163547	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	
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			DIST				A	005319.01		E

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE

FOR

DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. C4D17FK9Catalog No. 108053.00HP 1.000RPM 1800DC Volts 24.0N.P. FLA 39.00F.F. 1.00Encl TEFCType DFS.F. 1.00Max. Amb. 40.0 Deg CInsul. FFrame S56CDuty CONT

Ra 0.05000 Ohms
 La 1.800 mHenrys
 Ja 11.20 LB-IN²
 Ke 12.28 V/KRPM

Kt 1.038 LB-IN/AMP
 Imax 330.0 AMPS Allowed
 FL Torque 35.00 LB-IN
 FL EFF 81.30 %

Winding W- D56213-1Prepared by S. BernhardtDate 03-04-2009