PRODUCT INFORMATION PACKET

LEESON®

Model No: 098378.00
Catalog No: 098378.00
0.33 HP SCR Motor, 1750 RPM, 90 V, 56C Frame, TEFC
SCR Motors

REGAL

LEESON

Nameplate Specifications

Output HP	0.33 Hp	Output KW	0.25 kW
Voltage	90 V	Current	3.5 A
Speed	1750 rpm	Service Factor	1
Efficiency	82 %	Duty	Continuous
Insulation Class	F	Frame	MSS56C
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	Round
Overall Length	11.31 in	Frame Length	7.00 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Outline Drawing	027873-MSS56C	Connection Drawing	00531901

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"C"
"L"
"AD"
2.06
.125
1.93
.06
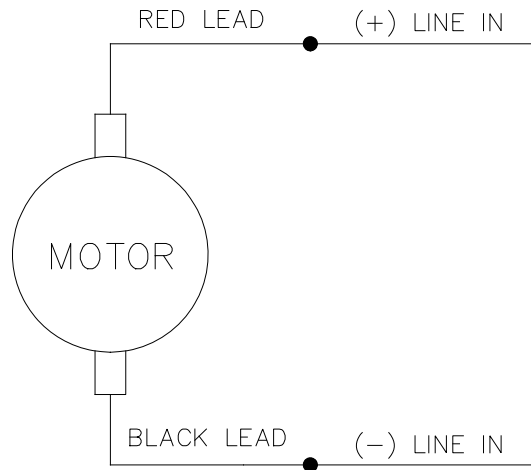1.875
1.41
FULL DEPTH
.19 SQ. X 1.38 KEY
ø5.16
ø4.88
4.500 +.000 −.003
ø.6250 .6245
NAMEPLATE
WARNING DECAL
ø7/8 KNOCKOUTS 3 REQUIRED

4.47
3.38
45°   45°
3/8−16 UNC−2B TAP THRU
4 REQUIRED ON A ø5.875 B.C.
ø6.50
LOCKED BEARING
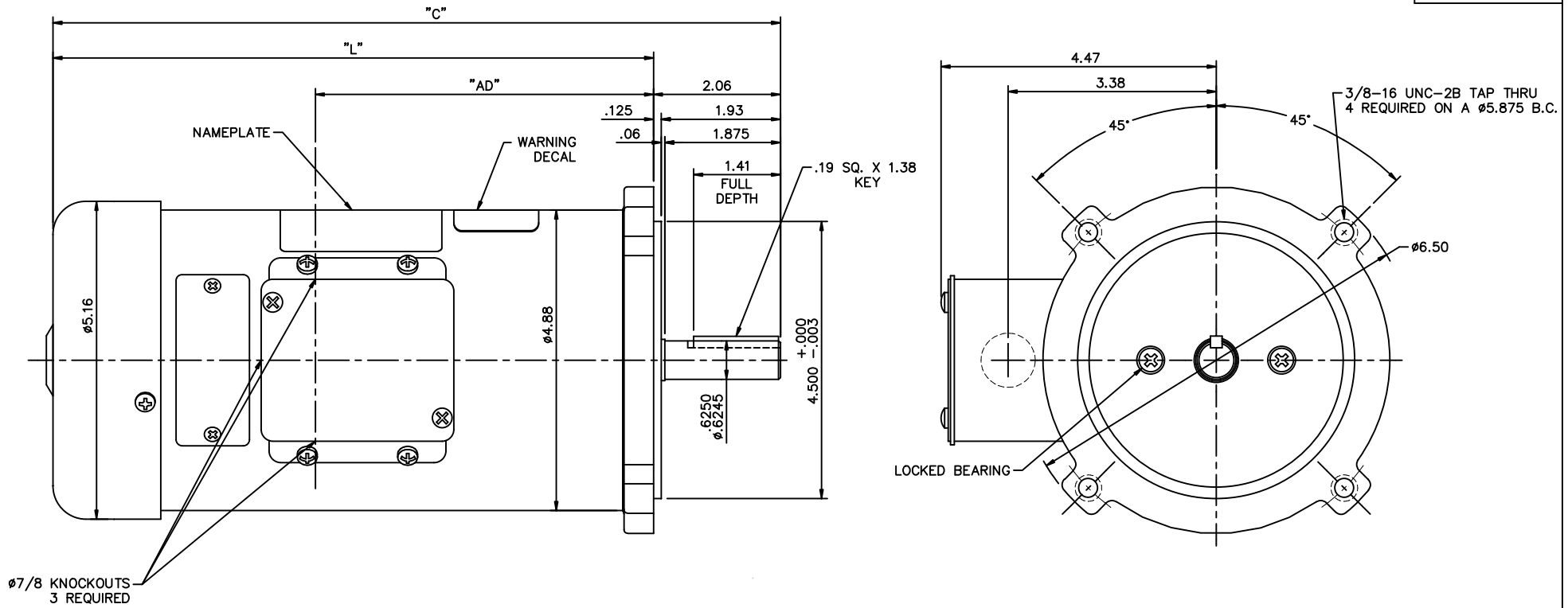
FRAME DESIGN.	"C"	"L"	"AD"	FRAME DESIGN.	"C"	"L"	"AD"
RSS56C	12.81	10.75	6.50				
PSS56C	12.31	10.25	6.00	ZSS56C	16.31	14.25	10.00
NSS56C	11.81	9.75	5.50	YSS56C	15.81	13.75	9.50
MSS56C	11.31	9.25	5.00	XSS56C	15.31	13.25	9.00
LSS56C	10.81	8.75	4.50	WSS56C	14.81	12.75	8.50
KSS56C	10.31	8.25	4.00	VSS56C	14.31	12.25	8.00
JSS56C	9.81	7.75	3.50	USS56C	13.81	11.75	7.50
HSS56C	9.31	7.25	3.00	TSS56C	13.31	11.25	7.00

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

NO.	REVISION	BY & DATE	CHK
02	ADDED FAN GUARD HOLE PLUG, ISAAC 10−4174	IPG 10/15/10	BC
01	CHANGED TO MYLAR NAMEPLATE PER ISAAC 08−2458.	RPB 9/8/08	BC
00	RELEASED: REF 027620.00, REMOVED BASE	KLS 4/18/05	IPG

TOLERANCES UNLESS SPECIFIED
DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

LEESON
ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE: OUTLINE 42 FRAME DC − SS56C MOUNT

DRAWN KLS 4/15/05
CHK
APPD
SCALE 5=8
REF 027620
FMF 098377.00
PREV
MAT'L.
FINISH

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RFP
DIST
CAD FILE 027873
SIZE B
DRAWING NO. 027873
REV. 02

10/15/2010 9:06:20 AM

005319.01

RED LEAD   (+) LINE IN

MOTOR

BLACK LEAD   (−) LINE IN

CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR

TO REVERSE ROTATION INTERCHANGE LINE LEADS

			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
NO.	REVISION	BY & DATE	CHK	ANG ±1/2°	FINISH	PREV

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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. D42D17FC30

HP 0.333	**RPM** 1750	**DC Volts** 90.0	**Catalog No.** 098378.00			
F.F. 1.38	**Encl** TEFC	**Type** DF	**N.P. FLA** 3.50			
Max. Amb. 40.0 Deg C	**Insul.** F	**Frame** MSS56C	**S.F.** 1.00			
			Duty Cont			
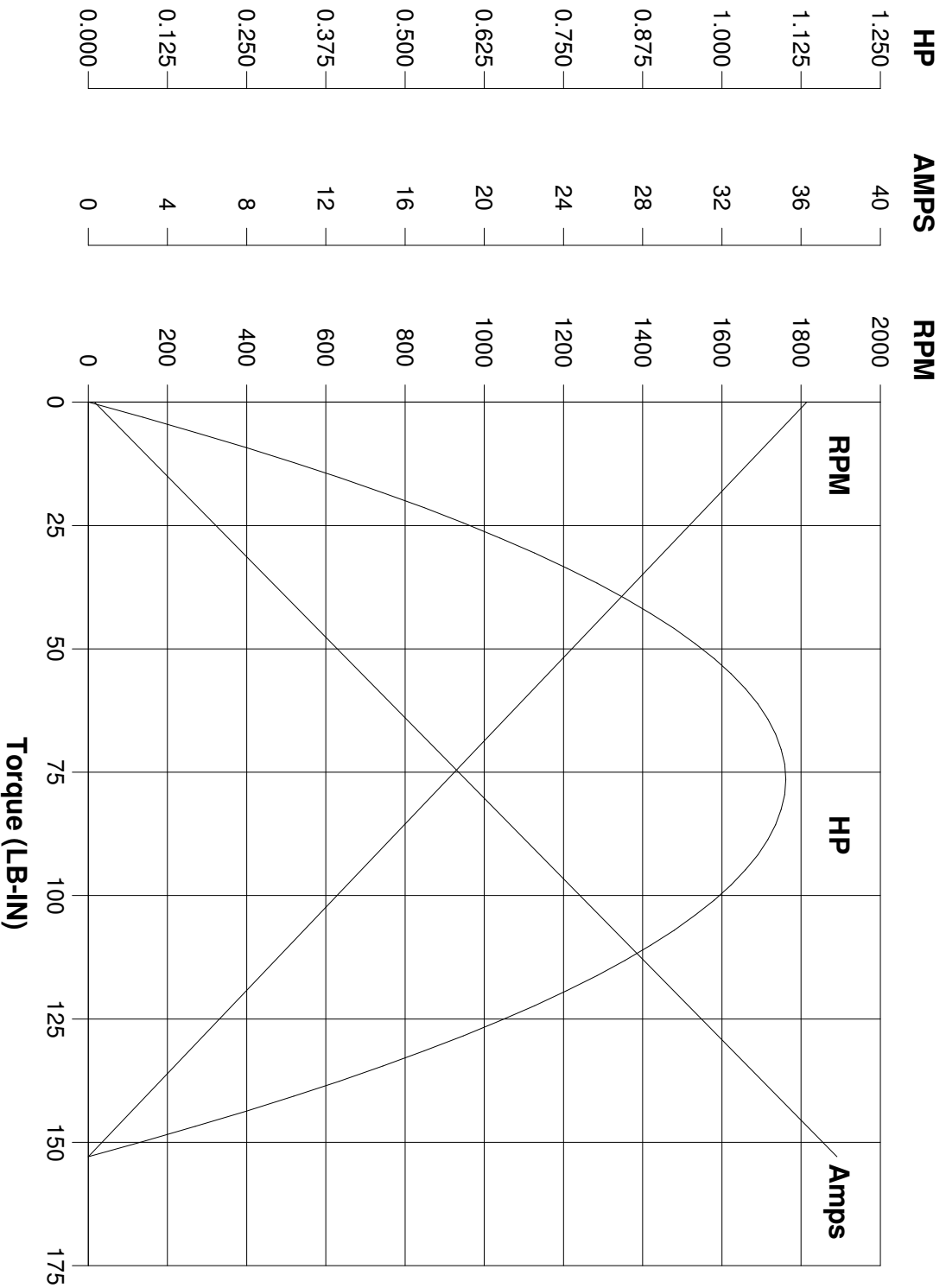
HP: 1.250, 1.125, 1.000, 0.875, 0.750, 0.625, 0.500, 0.375, 0.250, 0.125, 0.000

AMPS: 40, 36, 32, 28, 24, 20, 16, 12, 8, 4, 0

RPM: 2000, 1800, 1600, 1400, 1200, 1000, 800, 600, 400, 200, 0

Torque (LB-IN): 0, 25, 50, 75, 100, 125, 150, 175

Curve labels: RPM, HP, Amps

Ra 1.4900 Ohms	**Kt** 4.175 LB-IN/AMP			
La 17.50 mHenrys	**Imax** 44.9 AMPS Allowed			
Ja 6.250 LB-IN^2	**FL Torque** 12.00 LB-IN			
Ke 49.39 V/KRPM	**FL EFF** 82.00 %			

Winding W- D4729-1   **Prepared by** V. Boehlen   **Date** 09-19-2005

Brush 610