PRODUCT INFORMATION PACKET

Model No: LM24539
Catalog No: LM24539
General Purpose Motor, 1.50 HP, 1 Ph, 60 Hz, 115/208-230 V, 3600 RPM, 56C Frame, TEFC

Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2024 Regal Rexnord Corporation, All Rights Reserved. MC017097E

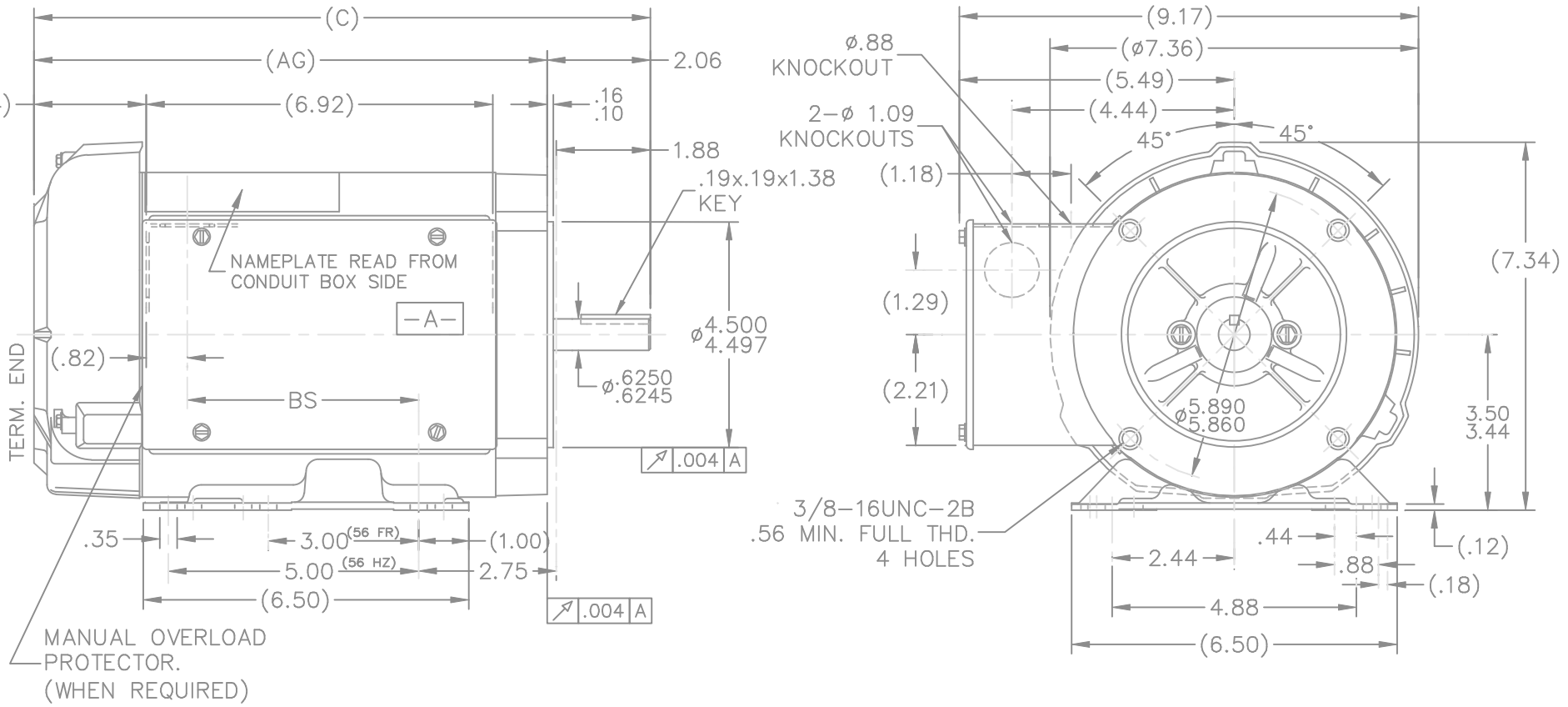
Nameplate Specifications

Phase	1	Output HP	1.50 Hp
Output KW	1.1 kW	Voltage	115/208-230 V
Speed	3450 rpm	Service Factor	1.15
Frame	56C	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	78.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	14.2/7.7-7.1 A	Power Factor	87.5
Duty	Continuous	Insulation Class	B
Design Code	NO DESIGN CODE	KVA Code	H
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	12.82 in
Frame Length	7.56 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	100127LN-756	Connection Drawing	102006-51-LN

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:05/13/2024



DASH	FR.	C	AG	BS	DASH	FR.	C	AG	BS
706	56–70	12.32	10.25	4.64	856	56–85	13.82	11.75	6.14
756	56–75	12.82	10.75	5.14	956	56–95	14.82	12.75	7.14
806	56–80	13.32	11.25	5.64	1006	56–100	15.32	13.25	7.64

NO.	REVISION	BY & DATE	CHK
1	NEW DRAWING	TJB 12-07-1999	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Lincoln MOTORS

TITLE OUTLINE
56 FR. –BB – 1ø –TEFC

DRAWN TJB 12-07-1999
CHK ML 12-07-1999
APPD GK 12-07-1999
SCALE 5=15
REF
FMF
MAT'L.
PREV
FINISH

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

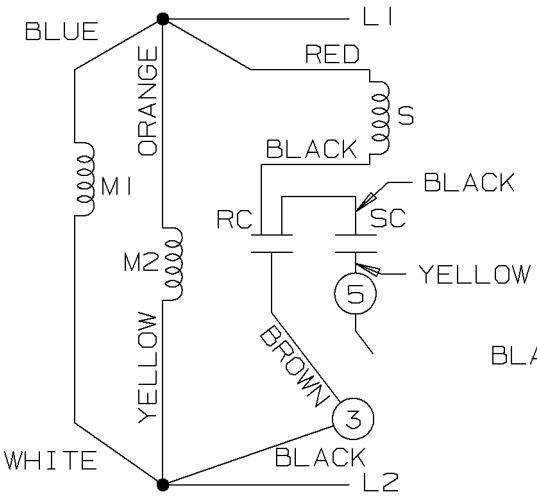
RFP 12-07-1999
DIST
CAD FILE 100127ln

SIZE	DRAWING NO.	PAGE	OF	REV.
A	100127LN			1

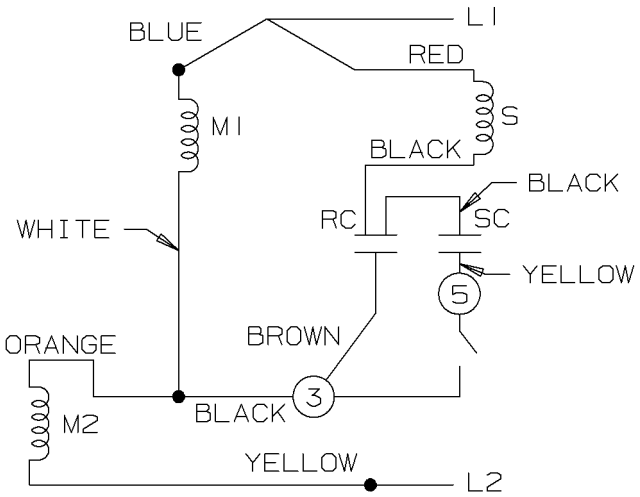
9/27/2008 6:00:46 AM

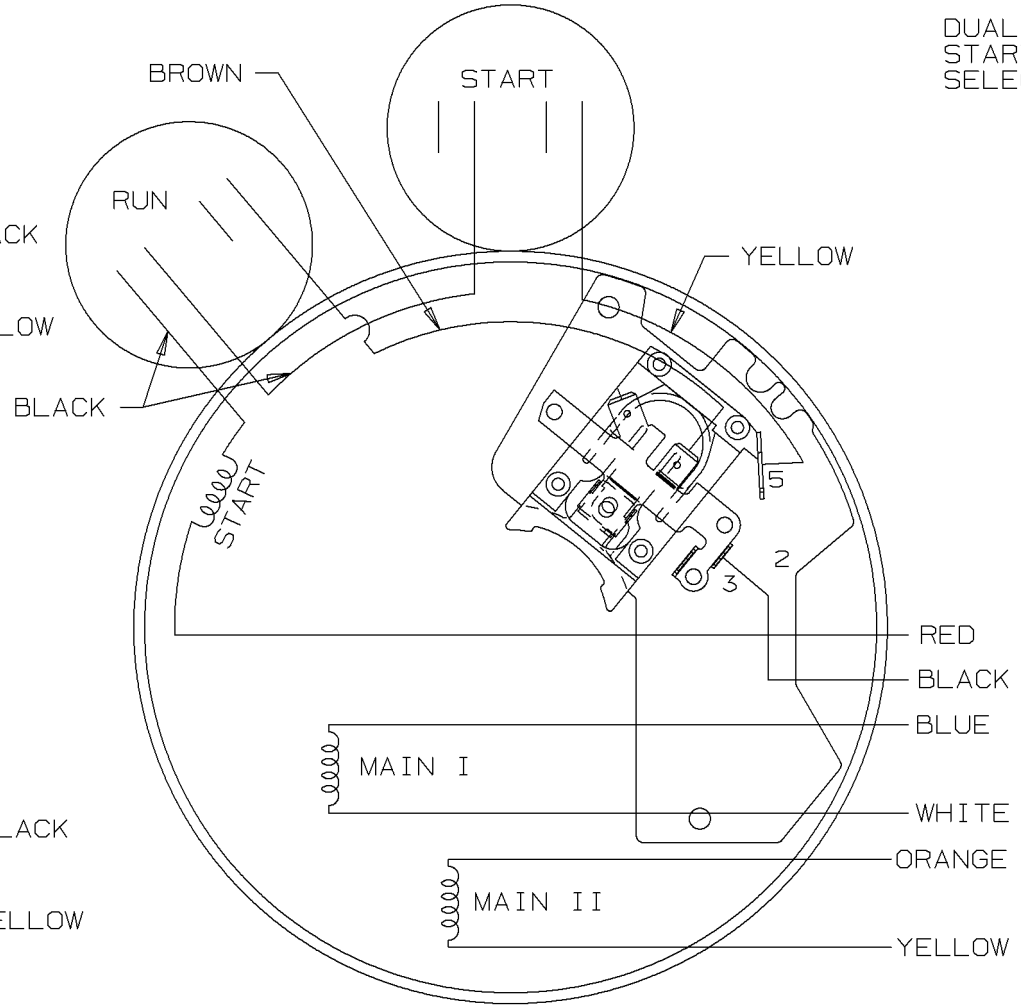
A- 102006-51-LN

LOW VOLTAGE C.C.W.



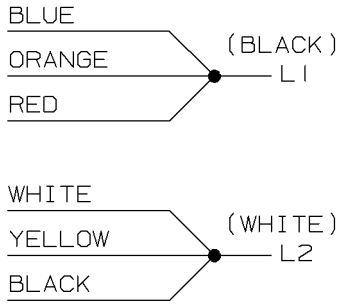
HIGH VOLTAGE C.C.W.



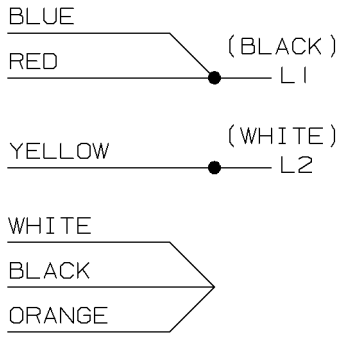


DUAL VOLTAGE CAPACITOR START-CAP RUN NO OVERLOAD SELECT ROTATION

LOW VOLTAGE C.C.W. ROTATION



HIGH VOLTAGE C.C.W. ROTATION



FOR C.W. ROTATION, EITHER VOLTAGE, INTERCHANGE RED WITH BLACK LEAD

REV	DATE	CHANGE	NAME
1	09-29-1999	NEW DRAWING	BLR

Lincoln MOTORS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOL. ON XX± XXX± .005 XXXX± .0005 ANGLES± 7'30"

MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY BLR	09-29-1999
FINISH		CHKD BY DRS	09-29-1999
MATERIAL		APPD BY GK	09-29-1999

PART NAME CONNECTION DIAGRAM

DRWG NO A- 102006-51-LN

PURCHASED | CADD FILE NO. 102006-51-LN

8/24/2007 1:08:56 PM -

Uncontrolled Copy

LINCOLN MOTORS

CERTIFICATION DATA SHEET

2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810

CONN. DIAGRAM: 102006-51-LN

OUTLINE: A-100127LN-756

CATALOG #: LM24539

WINDING #: ZB216 3

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2	1.12	3600	3450	56Z	TEFC	H	NO DESIGN CODE

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	14.2/7.7-7.1	ACROSS THE LINE	CONTINUOUS	B3	1.15	40

FULL LOAD EFF:	78.5	3/4 LOAD EFF:	72.5	1/2 LOAD EFF:	68	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	87.5	3/4 LOAD PF:	85.5	1/2 LOAD PF:	78.5	75.5	CAP START CAP RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
2.24 LB-FT	96 / 48	5.2 LB-FT 0 %	6 LB-FT 0 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0 LB-FT^2	4.2 LB-FT^2	10 SEC.	0	33 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD HUBLESS	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	SGL SPL EXT	SEE SPL INST	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

*

N

O

T

E

S

*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

Uncontrolled Copy

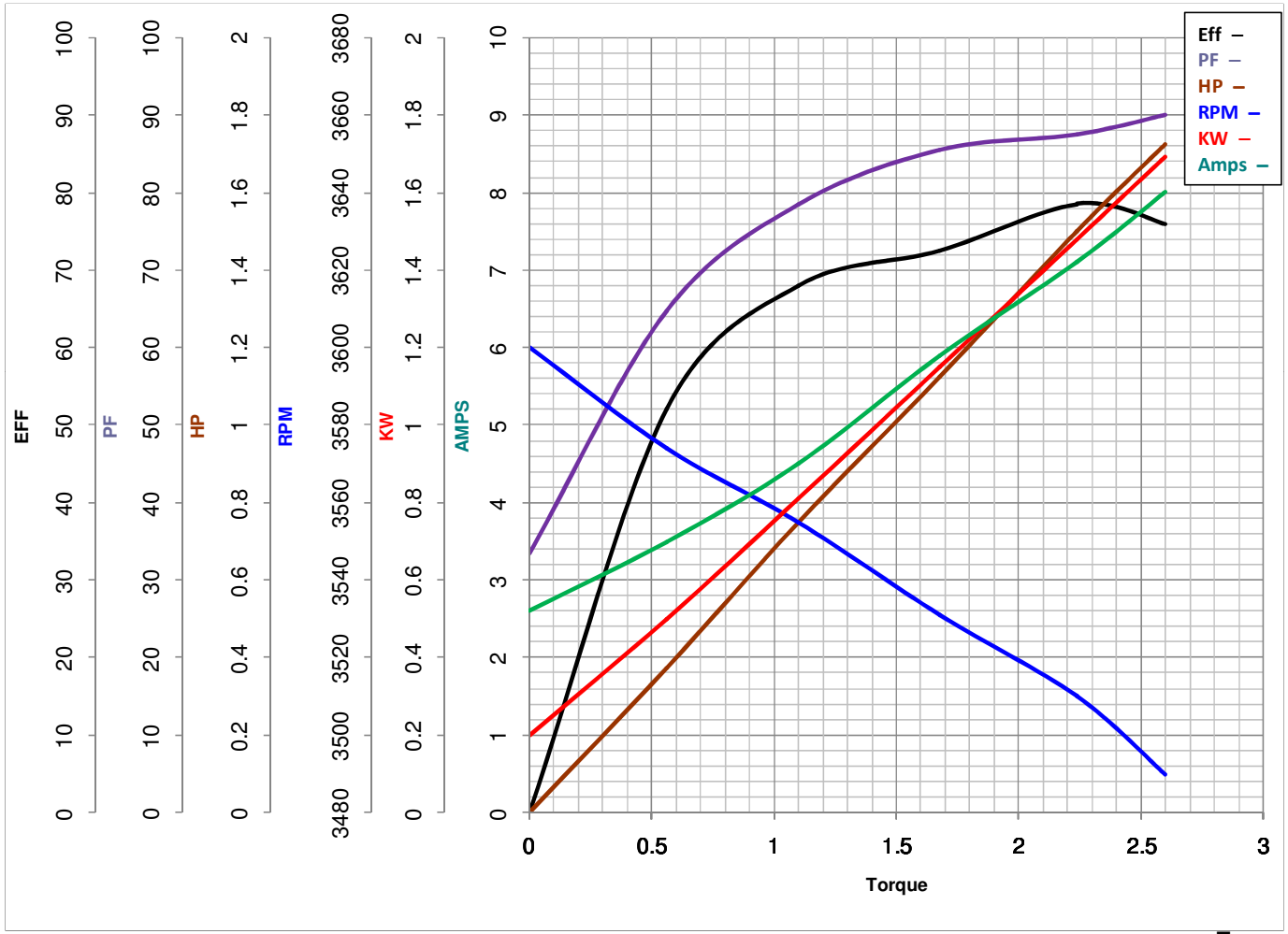
LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Curve at 230 **Volts** **HP** 1.50 **PHASE** 1
60 **HZ**
1.5 **HP** **VOLTS** 115/208-230

Model No LM24539

Catalog No LM24539D **HZ** 60 **RPM** 3450



Torque in Lb.Ft

FL TORQUE	2.24	**Lb.Ft**	**FL AMPS**	14.2/7.7-7.1	
BD TORQUE	6.0	**Lb.Ft**	**PU TORQUE**	4.8	**Lb.Ft**
LR TORQUE	5.2	**Lb.Ft**	**LR AMPS**	48	
WINDING	ZB216-3			**Date**	**4/18/2018**