PRODUCT INFORMATION PACKET

Model No: LM34221
Catalog No: LM34221
1 HP Special Voltage Motor, 3 phase, 3600 RPM, 575 V, 56C Frame, TEFC
575 Volts Motors

Product Information Packet: Model No: LM34221, Catalog No:LM34221 1 HP Special Voltage Motor, 3 phase, 3600 RPM, 575 V, 56C Frame, TEFC

Nameplate Specifications

Output HP	**1 Hp**	Output KW	**0.75 kW**
Frequency	**60 Hz**	Voltage	**575 V**
Current	**1.2 A**	Speed	**3450 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**78.5 %**	Power Factor	**79.1**
Duty	**Continuous**	Insulation Class	**F**
Design Code	**B**	KVA Code	**J**
Frame	**56C**	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	**Y**	IP Code	**43**

Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**21.2 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	**11.81 in**
Frame Length	**6.65 in**	Shaft Diameter	**0.625 in**
Shaft Extension	**2.06 in**	Assembly/Box Mounting	**F1/F2 CAPABLE**

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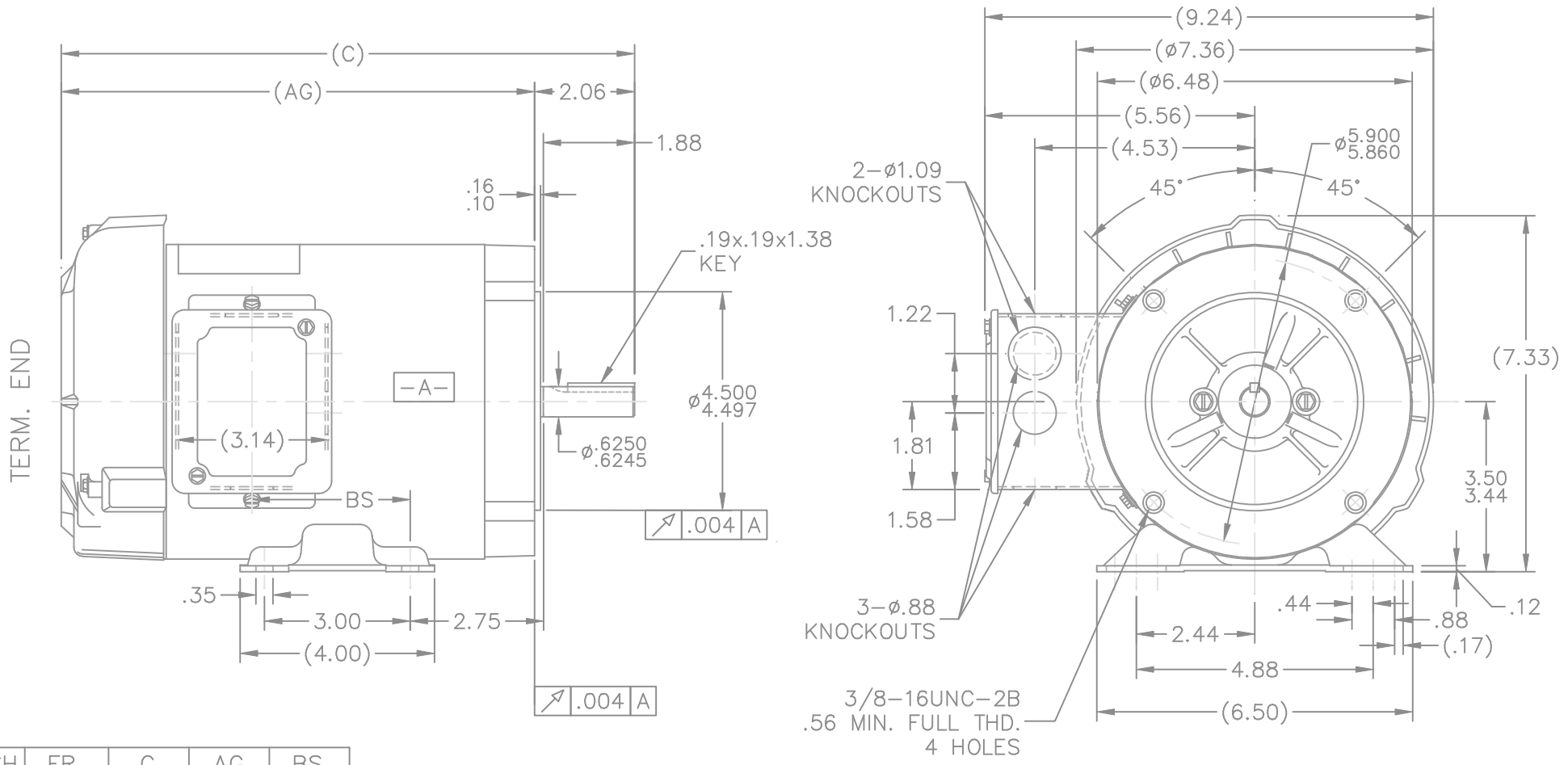
100110LN



DASH	FR.	C	AG	BS
606	56–60	11.31	9.25	2.75
656	56–65	11.81	9.75	3.25
706	56–70	12.31	10.25	3.75
756	56–75	12.81	10.75	4.25

06-01-2000

NOTES:
1. CONDUIT BOX CAN BE ROTATED 180°.
2. NAMEPLATE READ FROM CONDUIT BOX SIDE OF MOTOR.

NO.	REVISION	BY & DATE	CHK
2	ADDED NAMEPLATE LOC. CN27400–296	BLR 08–05–1999	
1	NEW DRAWING	BLR 06–18–1999	

TOLERANCES UNLESS SPECIFIED

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

Lincoln MOTORS

TITLE OUTLINE
56 FRAME – TEFC – C'FACE

MAT'L.

FINISH

CAD FILE 100110ln

RFP 06–18–1999

DIST WP

DRAWN	BLR 06–10–1999
CHK	ML 06–18–1999
APPD	GK 06–18–1999
SCALE	5=16
REF	
FMF	
PREV	

SIZE	DRAWING NO.	PAGE	REV.
A	100110LN	1 OF 1	2

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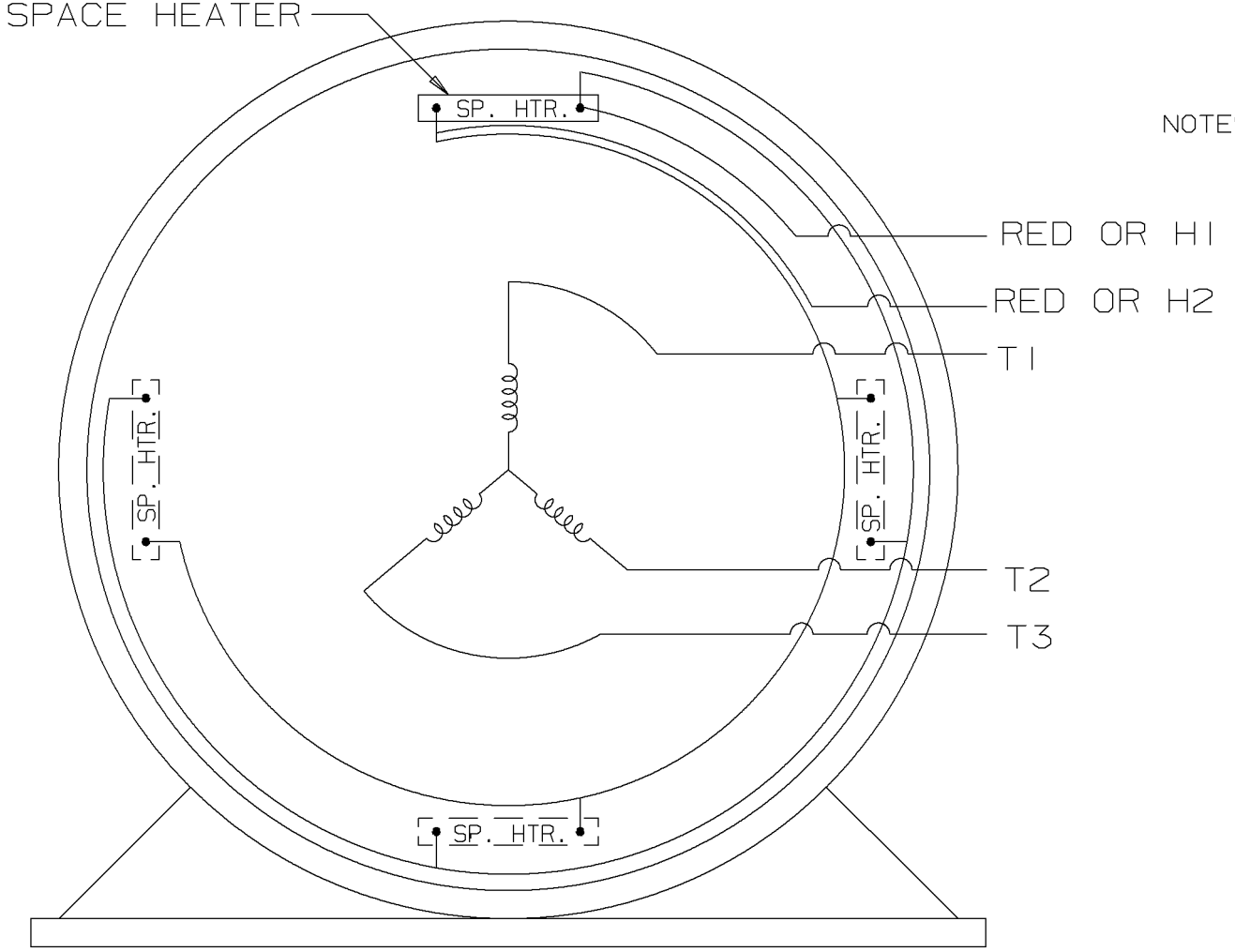
A- EE7300X-LN

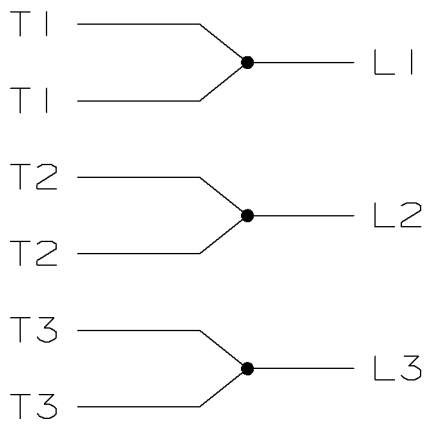


VIEW OF TERMINAL END

NOTES:

1. WHEN MORE THAN ONE HEATER IS USED, HEATERS MUST BE CONNECTED IN PARALLEL.
2. RED LEADS CONNECTED TO SPACE HEATER CIRCUIT.
3. THREE PHASE MOTOR CONDUIT BOX AT "A" SINGLE VOLTAGE.

IF MOTOR HAS 6 LEADS



A-9806 DECAL

REV	DATE	CHANGE	NAME
1	02-10-2000	NEW DRAWING MU29048	DRS

Lincoln MOTORS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOL. ON XX± .02 XXX± .005 XXXX± .0005 ANGLES± 7'30"

MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY DRS	02-10-2000
FINISH		CHKD BY ML	02-10-2000
MATERIAL		APPD BY RJM	02-10-2000

PART NAME CONNECTION DIAGRAM 3Ø - SINGLE VOLTAGE

DRWG NO A- EE7300X-LN

PURCHASED | CADD FILE NO. EE7300X-LN

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300-LN **CAT #:** LM34221
OUTLINE: A-100110LN-656
WINDING: ZT2107 R4 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1	0.75	3600	3485	56C	TEFC	TFR	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	1.2	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	78.5	3/4 LD EFF	79.4	1/2 LD EFF	73.9	GTD EFF	ELECT. TYPE
F.L. PF	79.1	3/4 LD PF	75.8	1/2 LD PF	64.0	72.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
1.50 LB-FT	8.0	3.2 LB-FT 213%	4.8 LB-FT 320%	45	

PRESSURE @ 3	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	0.02 LB-FT²	2 LB-FT²	10 SEC.	2	22 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSAVER

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6203	BALL 6203	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
18.859	9.94	27.069	17.573	545.813	0.150	ODE

*
NOTES
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: V-INS, CONST UL REC

DATE: 9/5/2018

Data Sheet

Date: 9/5/2018

LEESON

LM34221

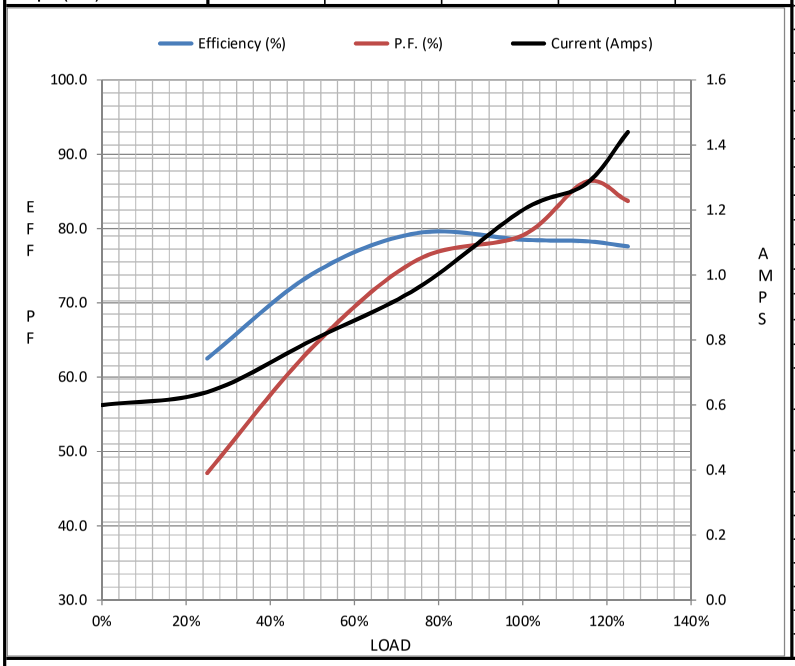
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	0.60	0.64	0.80	0.96	1.20	1.28	1.44	8.0	
Torque (ft-lb)	0.00	0.37	0.75	1.15	1.50	1.75	1.90	3.2	
RPM	3600	3569	3540	3525	3485	3,465	3450	0	
Efficiency (%)		62.5	73.9	79.4	78.5	78.3	77.6		
P.F. (%)	20.1	47.1	64.0	75.8	79.1	86.3	83.7	64.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1500	2750	3485	3600
Current (Amps)	8.0	7.6	4.7	1.20	0.60
Torque (ft-lb)	3.2	2.80	4.8	1.50	0.00



Information Block

HP	1.0	
Sync. RPM	3600	
Frame	56	
Enclosure	TEFC	
Construction	TFR	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	J	
Service Factor	1.15	
Temp Rise @ FL	45	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.02	Lb-Ft²
Ref Wdg	ZT2107 R4	
Sound Pressure @ 1M	68	dBA
VFD Rating	NONE	
Outline Dwg	A-100110LN-656	
Conn. Diag	A-EE7300-LN	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
18.8590	9.9400	27.0690	17.5730	545.8130

Speed -Torque Curve