

PRODUCT INFORMATION PACKET

Model No: LM23781

Catalog No: LM23781

Automotive Duty Motor, 1 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 182UC Frame, TENV



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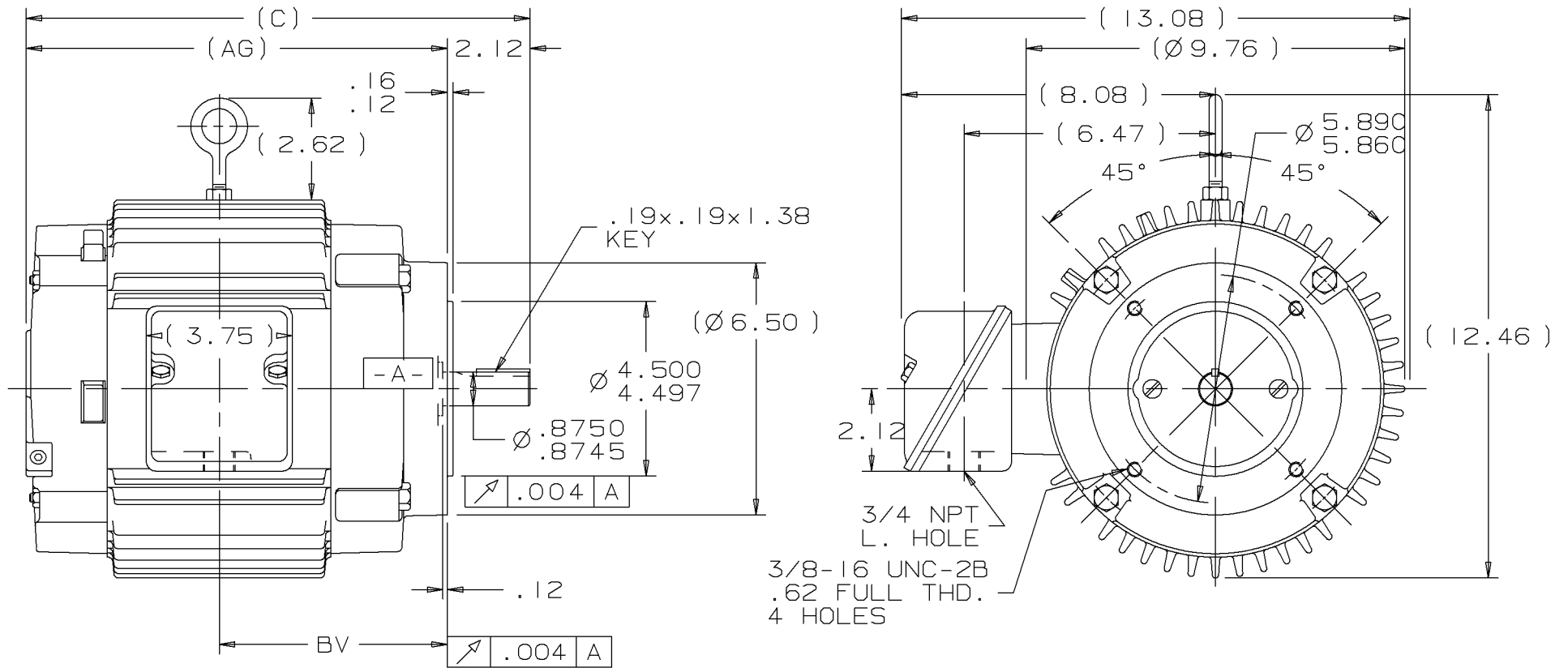
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	460 V
Current	1.5 A	Speed	1770 rpm
Service Factor	1	Phase	3
Efficiency	87.5 %	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Frame	182UC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Ambient Temperature	65 °C
Drive End Bearing Size	207	Opp Drive End Bearing Size	205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	13.4 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	U	Overall Length	12.96 in
Frame Length	5.75 in	Shaft Diameter	0.875 in
Shaft Extension	2.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300-LN	Outline Drawing	A-SS69007LN-575

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DASH	FR.	C	BV	AG
575	182U	12.96	5.88	10.84
675	182/4U	13.96	6.88	11.84

NOTES:

1. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS & TURNING FRAME 180°.
2. BOX CAN BE ROTATED IN 90° STEPS.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

				Lincoln MOTORS		✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.03 XXX±.005 XXXX±.0005 ANGLES± 7'30"	
						MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED	
						DRAWN BY DRS 08-18-2000	
						CHKD BY ML 08-21-2000	
						APPD BY TB 08-21-2000	
REV	DATE	CHANGE		NAME	PART NAME	DRWG NO	
I	08-21-2000	NEW DRAWING		DRS	180U FR. - TENV - C-FACE	A- SS69007LN	

PURCHASED

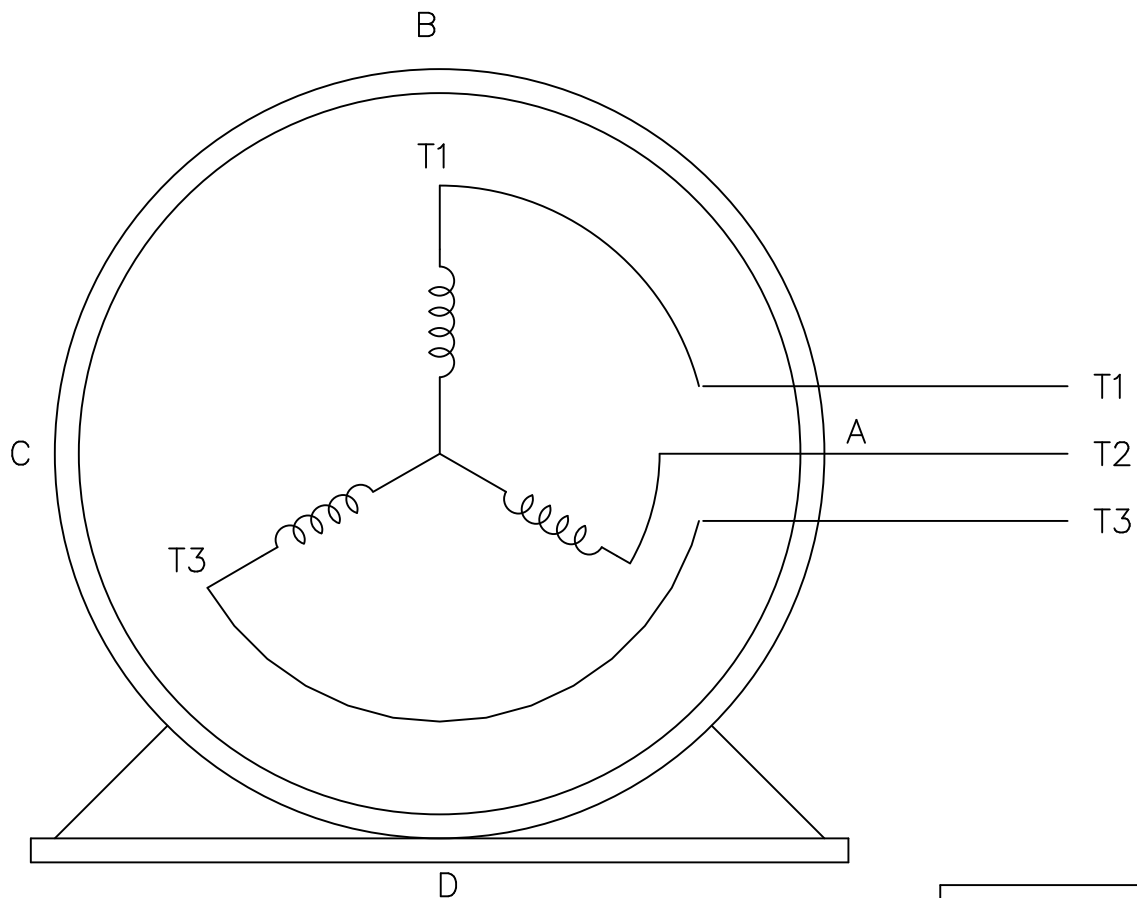
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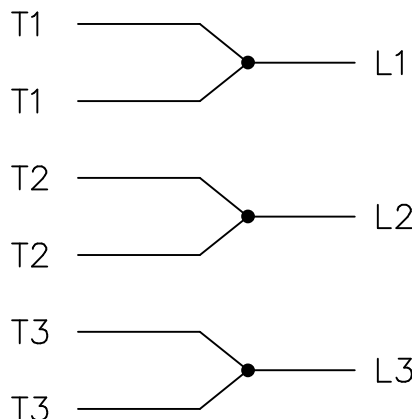
THREE PHASE – SINGLE VOLTAGE
MOTOR – CONDUIT BOX @ 'A'

EE7300-LN

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



IF MOTOR HAS
6 LEADS




A-9806 DECAL

OPTIONAL CORD
CONNECTION

L1 WHITE
L2 RED
L3 BLACK

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN BLR 08-13-1999				
				DEC.	INCHES		CHK ML 08-13-1999				
				.X	±.1		APPD GK 08-13-1999				
				.XX	±.02		SCALE 1=1				
2	ADDED OPTIONAL CORD CONNECTION PER MU47226	CTO 03-31-2004	PJB	.XXX	±.005	TITLE CONNECTION DIAGRAM SINGLE VOLT – 3Ø MOTOR	REF				
1	NEW DRAWING	CTO 08-13-1999		.XXXX	±.0005		MAT'L.	FMF			
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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 EE7300_LN		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST WP			A	EE7300-LN			2



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300-LN

CATALOG #: LM23781

OUTLINE: A-SS69007LN-575

WINDING #: K1824131 1

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1	0.75	1800	1770	182UC	TENV	L	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	1.5	ACROSS THE LINE	CONTINUOUS	F3	1.0	65

FULL LOAD EFF:	87.5	3/4 LOAD EFF:	86.5	1/2 LOAD EFF:	84	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	75	3/4 LOAD PF:	67	1/2 LOAD PF:	55	85.5	SQ CAGE IND RUN		

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	12.5	7 LB-FT 233 %	12.5 LB-FT 417 %	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.22 LB-FT^2	0 LB-FT^2	30 SEC.	0	55 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	U	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
207	205						

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

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE FT-LB V NONE Hz

Data Sheet

Date: 1/24/2018

LM23781



Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.90	1.00	1.10	1.30	1.50	1.70	1.80	12.5
Torque (ft-lb)	0.00	0.75	1.50	2.20	3.0	3.4	3.7	7.0
RPM	1800	1792	1785	1780	1770	1.765	1762	0
Efficiency (%)		74.0	84.0	86.5	87.5	87.5	87.5	
P.F. (%)	8.0	35.0	55.0	67.0	75.0	78.0	80.0	51.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1500	1770	1800
Current (Amps)	12.5	11.5	8.0	1.50	0.90
Torque (ft-lb)	7.0	5.4	12.5	3.0	0.00

Information Block				
HP	1.0			
Sync. RPM	1800			
Frame	182			
Enclosure	TENV			
Construction	TTS			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	40 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.22 Lb-Ft ²			
Ref Wdg	K1824131 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	A-SS69007LN-575			
Conn. Diag	A-EE7300-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
7.8950	3.5220	13.8310	18.7720	325.1800

