

PRODUCT INFORMATION PACKET



Model No: LM33048

Catalog No: LM33048

Elevator Duty Motor, 30 & 40 HP, 3 Ph, 60 & 60 Hz, 230/460 & 230/460 V, 1800 & 1800 RPM,
286T Frame, DP



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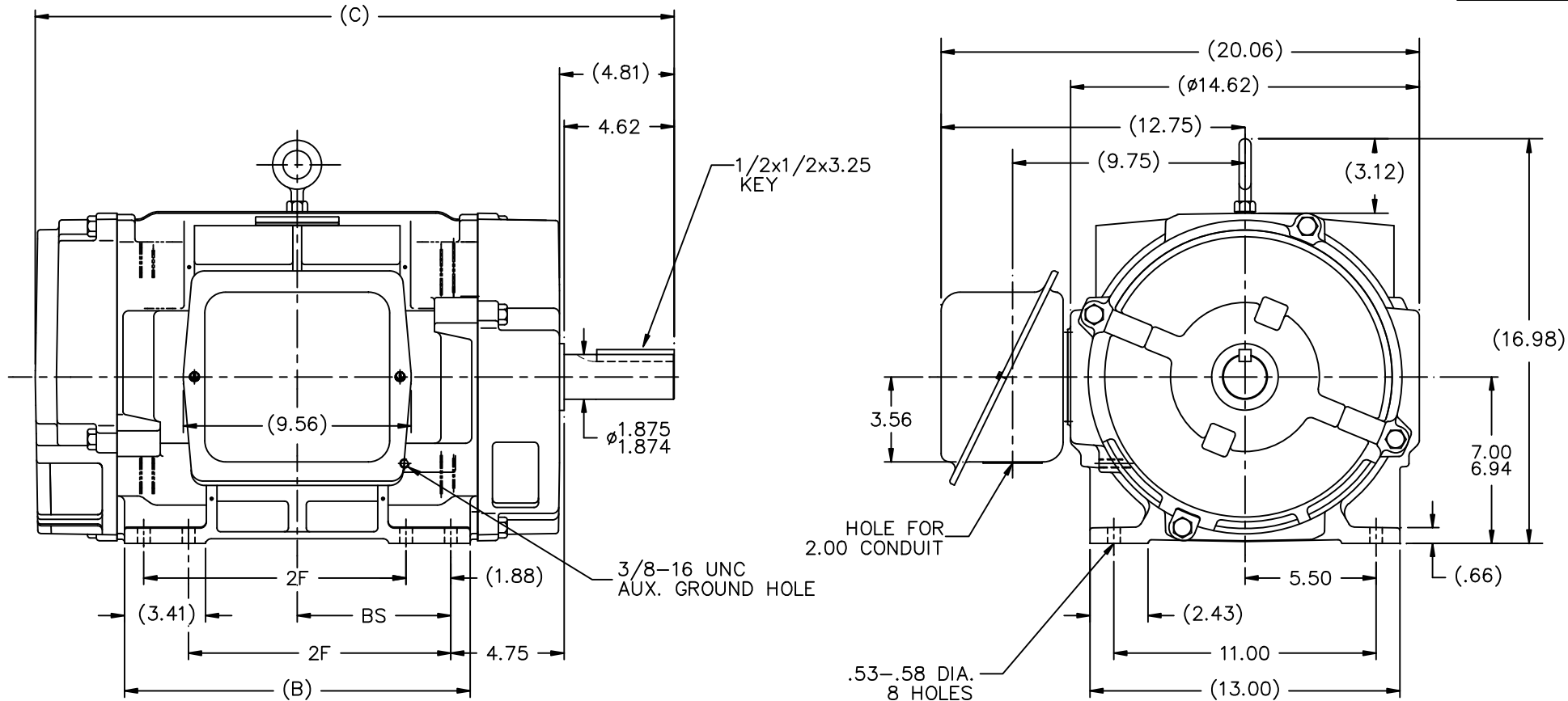


Nameplate Specifications

Phase	3	Output HP	30 & 40 Hp
Output KW	22.4 & 30.0 kW	Voltage	230/460 & 230/460 V
Speed	1775 & 1775 rpm	Service Factor	1.0 & 1.0
Frame	286T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	94.1 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	74/37 & 96/48 A	Power Factor	81
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	INV	KVA Code	D
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.22 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	26.81 in
Frame Length	15.13 in	Shaft Diameter	1.875 in
Shaft Extension	4.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS207890LN-1512	Connection Drawing	EE7358-LN



NOTES:

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

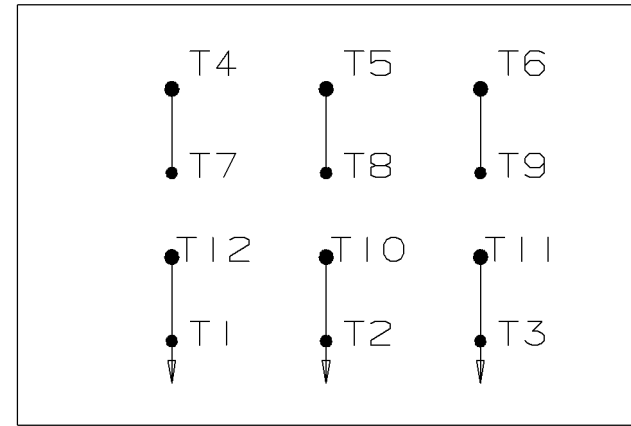
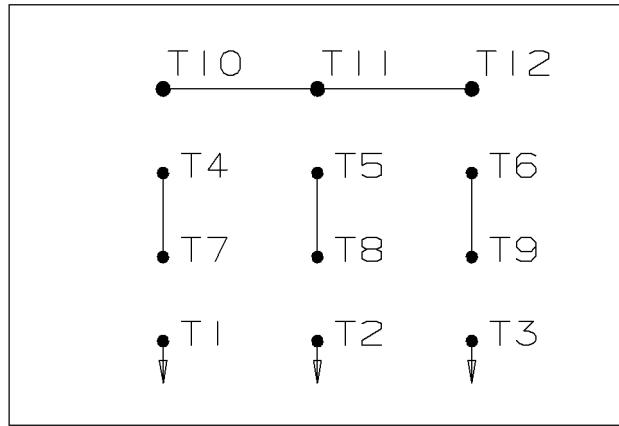
DASH	FRAME	B	C	2F	BS
1325	284T	12.63	24.94	9.50	5.50
1512	286T	14.50	26.81	11.00	6.44

		TOLERANCES UNLESS SPECIFIED		Lincoln MOTOR		DRAWN TJW 7/12/2006	
		DEC.	INCHES			CHK	ML 7/12/2006
		.X	±.1			APPD	BW 7/12/2006
		.XX	±.03	TITLE OUTLINE		SCALE	5=21
		.XXX	±.005	280 FR. -TS -DR. PR. -CAST IRON		REF	MU60991
1	ADDED DASH 1325 MU101889	SJW	4/8/2011	DR	.XXXX	±.0005	MAT'L
NO. REVISION		BY & DATE		CHK	ANG	±7'30"	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	CAD FILE ss207890LN		SIZE
				DIST	LB	DRAWING NO. PAGE 1 OF 1 REV.	
				B		SS207890LN	1

WYE START

HIGH VOLTAGE

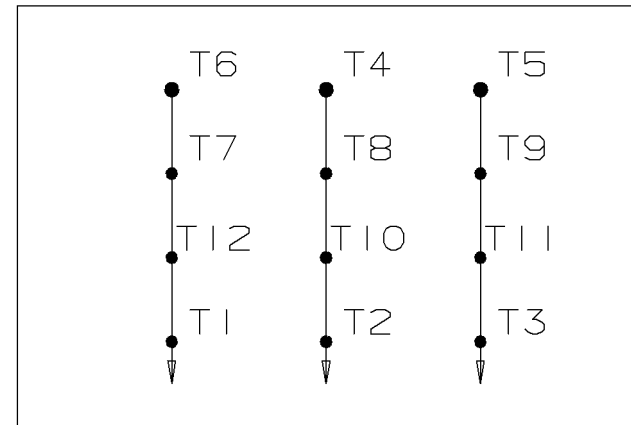
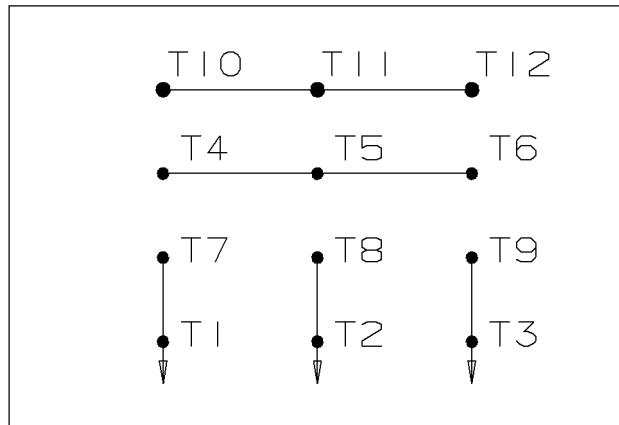
DELTA RUN



WYE START

LOW VOLTAGE

DELTA RUN



4/2 CKTY Δ

					<input checked="" type="checkbox"/> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX± .02 XXX± .005 XXXX± .0005 ANGLES± 7'30"			
						MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED FINISH MATERIAL	DRAWN BY DRS CHKD BY ML APPD BY TB	12-07-1999 12-07-1999 12-07-1999
1	12-07-1999	NEW DRAWING	DRS	PART NAME CONNECTION DIAGRAM			DRWG NO A-EE7358-LN	
REV	DATE	CHANGE	NAME				PURCHASED CADD FILE NO. EE7358-LN	



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7358-LN
OUTLINE: B-SS207890LN-1512
WINDING: K2864304

CAT #: LM33048

R1 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	1800	1772	286T	DP	TDN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/60	230/460#230/460	74/37&96/48	VYE START DELTA RUN	60 MIN	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.6	GTD EFF	ELECT. TYPE
F.L. PF	81.0	3/4 LD PF	76.5	1/2 LD PF	66.0	93.6	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
89.0 LB-FT	208	160 LB-FT 180%	220 LB-FT 247%	45

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA		4.7 LB-FT²	0 LB-FT²	20 SEC.	0	460 LB.

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

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6311	6210						

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
0.132	0.109	0.709	0.869	16.821	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE					
	ENCODER: NONE NONE NONE PPR					
	BRAKE: NONE NONE NONE					
	FT-LB: NA VOLTAGE: NONE HZ:					
	UL: V-INS, CONST UL REC					

DATE: 8/21/2018

Data Sheet

Date: 8/21/2018

LM33048



Data @ **460 V**

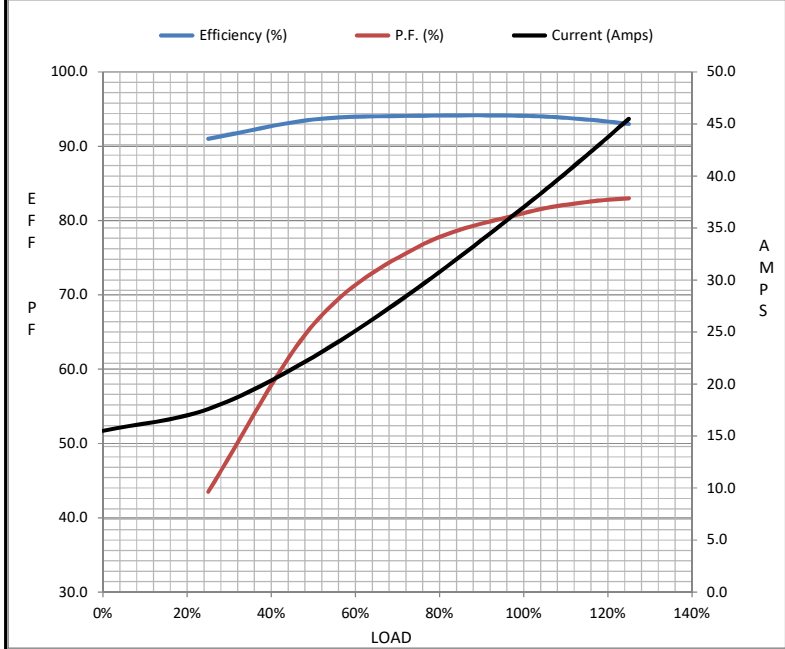
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	15.5	17.6	22.6	29.3	37.0	42.0	45.5	208
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	102	112	160
RPM	1800	1792	1785	1778	1772	1,770	1768	0
Efficiency (%)		91.0	93.6	94.1	94.1	93.6	93.0	
P.F. (%)	3.0	43.5	66.0	76.5	81.0	82.5	83.0	35.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1678	1772	1800
Current (Amps)	208	187	129	37.0	15.5
Torque (ft-lb)	160	136	220	89.0	0.00

Information Block				
HP	30.0			
Sync. RPM	1800			
Frame	286			
Enclosure	DP			
Construction	TDN			
Voltage	230/460#230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	60 MIN			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	4.7 Lb-Ft ²			
Ref Wdg	K2864304 R1			
Sound Pressure @ 1M	72 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS207890LN-1512			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1320	0.1090	0.7090	0.8690	16.8210



Speed - Torque Curve

