

PRODUCT INFORMATION PACKET



Model No: LM29666

Catalog No: LM29666

30 HP, Elevator Duty Motors, 3 phase, 3600 RPM, 230/460 V, 160TZ Frame, Open Enclosed
Elevator Duty Motors



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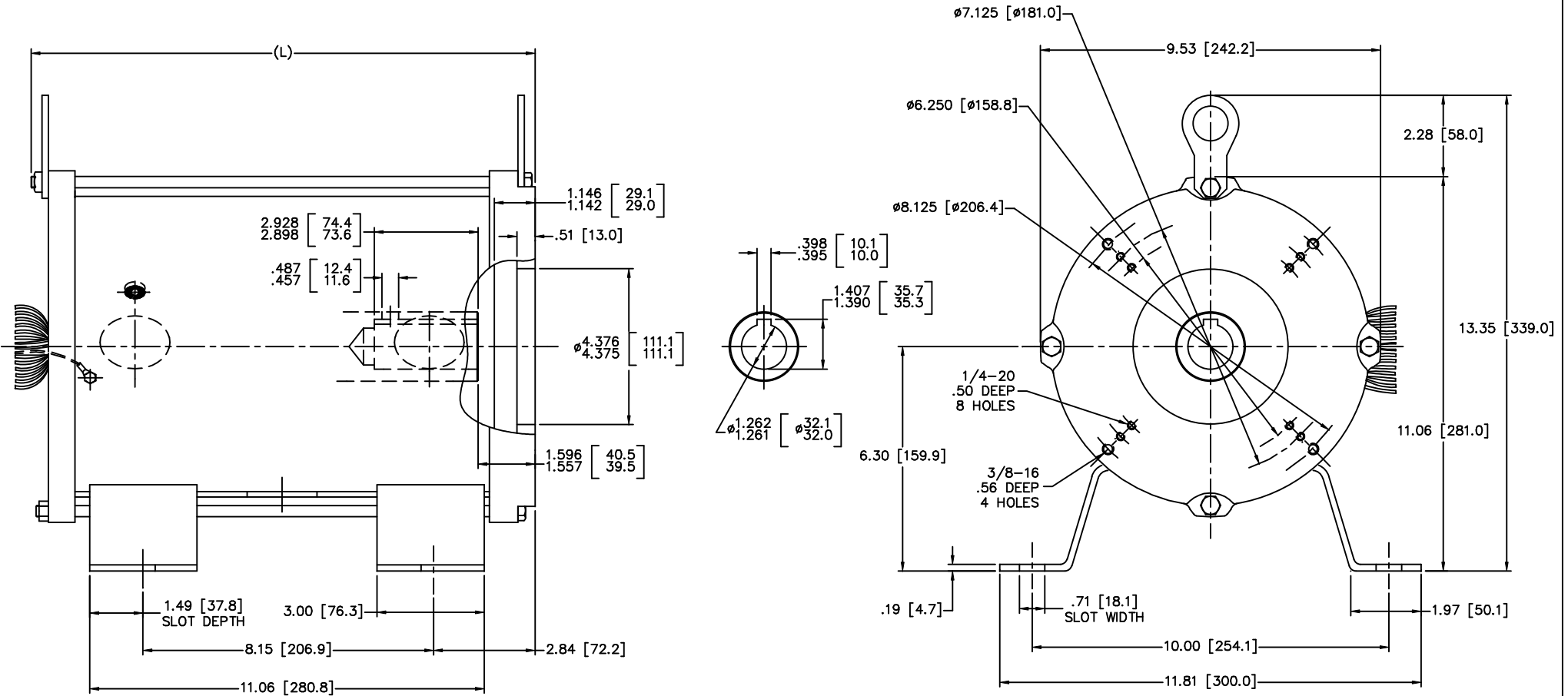


Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	230/460 V
Current	76.0/38.0 A	Speed	3510 rpm
Service Factor	1	Phase	3
Efficiency	86.5 %	Power Factor	85.7
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	B	KVA Code	G
Frame	160TZ	Enclosure	Open Enclosed
Thermal Protection	Thermostats (N/C)	Ambient Temperature	70 °C
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6307
UL	Recognized	CSA	Y
CE	N	IP Code	10
Number of Speeds	1		

Technical Specifications

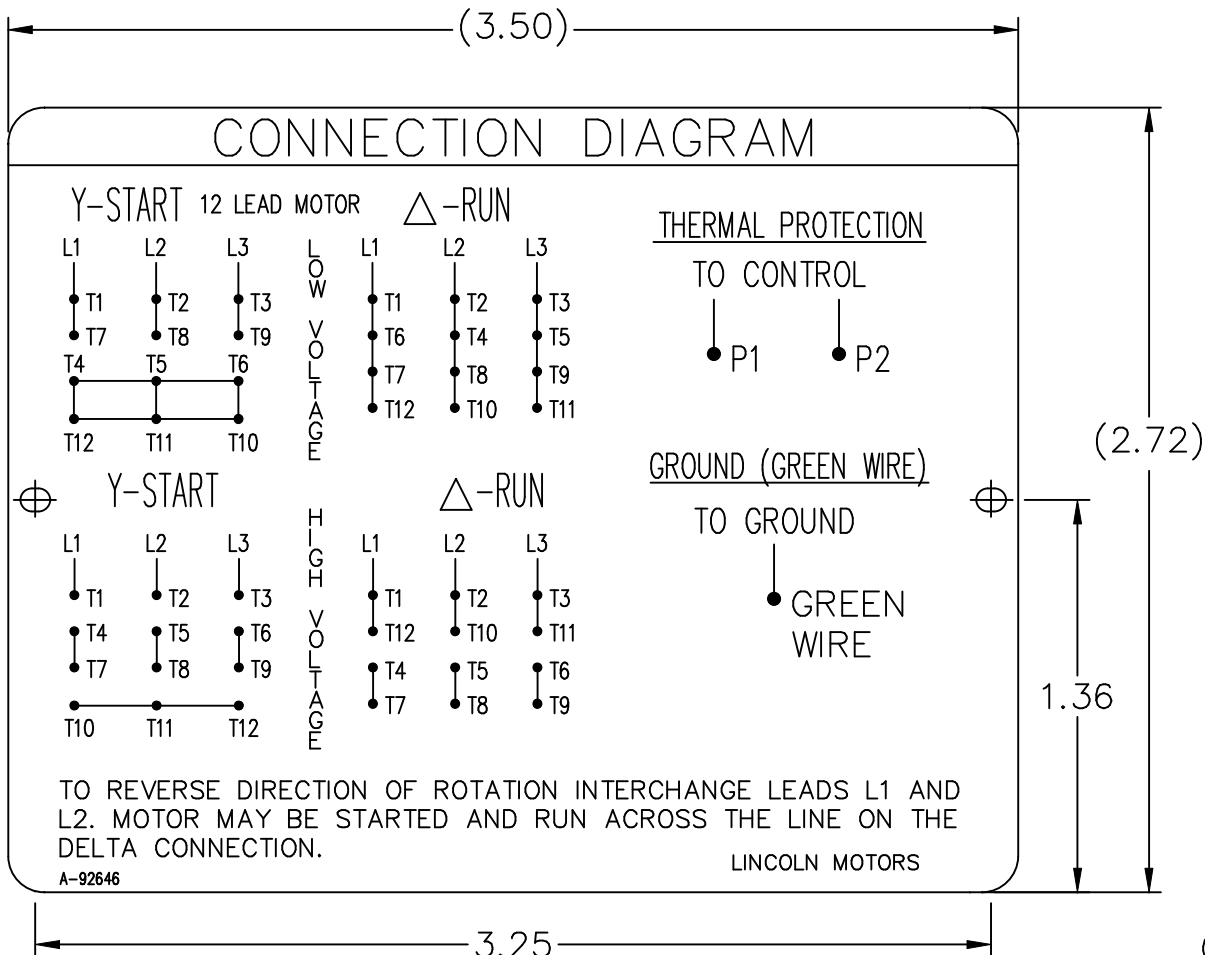
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.57 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	14.53 in
Frame Length	12.00 in	Shaft Diameter	1.250 in
Shaft Extension	2.92 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	0216000039	Connection Drawing	A-92646



TYPE	HP	L
160ZBS-2	15	14.53 [369.0]
160ZBS-2	20	
160ZBS-2	25	
160ZBS-2	30	
160ZBS-2	40	17.87 [454.0]
160ZBS-2	50	

(MAY NOT BE DRAWN TO SCALE)

		TOLERANCES UNLESS SPECIFIED		Lincoln MOTOR		DRAWN MSG 01-25-2007	
		DEC.	INCHES	CHK	ML 01-25-2007	APPD	GK 01-25-2007
		.X	±.1				
		.XX	±.03				
		.XXX	±.005				
1	UPDATED TO CURRENT STANDARDS	DRS		.XXXX	±.0005		
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV
			RFP			CAD FILE 0216000039	
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						SIZE	DRAWING NO. PAGE OF REV.
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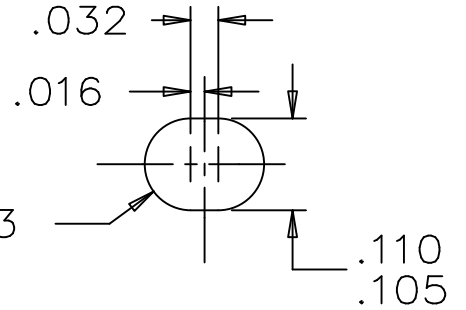
TO REVERSE DIRECTION OF ROTATION INTERCHANGE LEADS L1 AND L2. MOTOR MAY BE STARTED AND RUN ACROSS THE LINE ON THE DELTA CONNECTION.

A-92646

LINCOLN MOTORS

NOTES:

1. MATERIAL 304 STAINLESS STEEL
2. LETTERING AND ARTWORK BLACK
3. ALL DATA MUST BE HYDRAULIC OIL RESISTANT.



		TOLERANCES UNLESS SPECIFIED		REGAL-BELOIT <i>Motor Technologies Group</i>		DRAWN CTO 02-18-2004									
		DEC.	INCHES			CHK	ML 02-18-2004								
		.X	±.1	TITLE CONNECTION DIAGRAM PLATE		APPD	MS 02-18-2004								
		.XX	±.02			SCALE	1.5=1								
2	NAMEPLATE ONLY FOR 12 LEAD CN292003462	CTO	02-18-2004			.XXX	±.005	REF							
1	REISSUE WITH CORRECT DIAGRAM	CTO	02-16-2004	.XXXX	±.0005	MAT'L.	304 STAINLESS STEEL								
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV								
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				DIST	WA										

P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-92646
 OUTLINE: 0216000039
 WINDING: 2152207

CAT #: LM29666

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	3600	3500	160M	OPEN	TDR	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	79/39.5	VYE START DELTA RU	30 MIN	F	1.15	70	3300

F.L. EFF	87.5	3/4 LD EFF	88.5	1/2 LD EFF	87.5	GTD EFF	ELECT. TYPE
F.L. PF	81.5	3/4 LD PF	74.5	1/2 LD PF	61.0	77.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
45.0 LB-FT	250	75.0 LB-FT 167%	100 LB-FT 222%	0

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	0.00 LB-FT²	0 LB-FT²	0 SEC.	80	0 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	GRAY - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	SGL SPL EXT	ELEVATOR MOTOR SH	NONE	AISI 1045 (C-240)	ROLLED STEEL
BALL	BALL						
NONE	NONE						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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	0	0	0	0	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE					
	ENCODER: NONE NONE NONE					
	NONE PPR					

<p>DATE: 1/19/2018</p>	<p>BRAKE: NONE NONE NONE</p> <p>FT-LB: NA</p> <p>VOLTAGE: NONE HZ:</p> <p>UL: V-INS, CONST UL REC</p>
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Data Sheet

Date: 1/19/2018

LM29666



Data @ 460 V

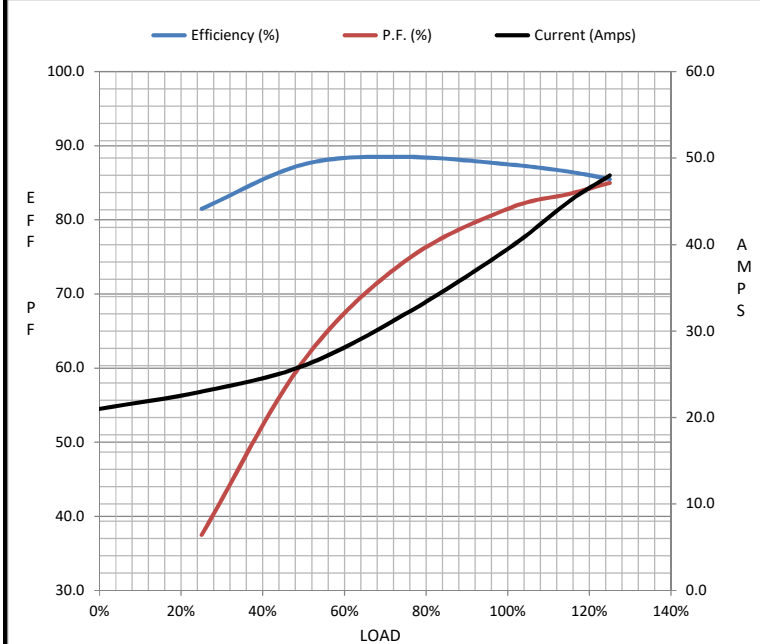
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	21.0	23.0	26.0	32.0	39.5	45.0	48.0	250
Torque (ft-lb)	0.00	11.0	22.0	33.5	45.0	52.0	56.5	75.0
RPM	3600	3580	3555	3530	3500	3,490	3475	0
Efficiency (%)		81.5	87.5	88.5	87.5	86.5	85.5	
P.F. (%)	7.0	37.5	61.0	74.5	81.5	83.5	85.0	49.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2975	3500	3600
Current (Amps)	250	225	1,775	39.5	21.0
Torque (ft-lb)	75.0	70.0	100	45.0	0.00

Information Block				
HP	30.0			
Sync. RPM	3600			
Frame	160			
Enclosure	OPEN			
Construction	TDR			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	0 °C			
Duty	30 MIN			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.00 Lb-Ft ²			
Ref Wdg	2152207 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	0216000039			
Conn. Diag	A-92646			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

