

# PRODUCT INFORMATION PACKET



Model No: LM29673  
Catalog No: LM29673

Elevator Duty Motor, 50 & 40 HP, 3 Ph, 60 & 60 Hz, 575 & 575 V, 3600 & 3600 RPM, 160TZ Frame, OPEN



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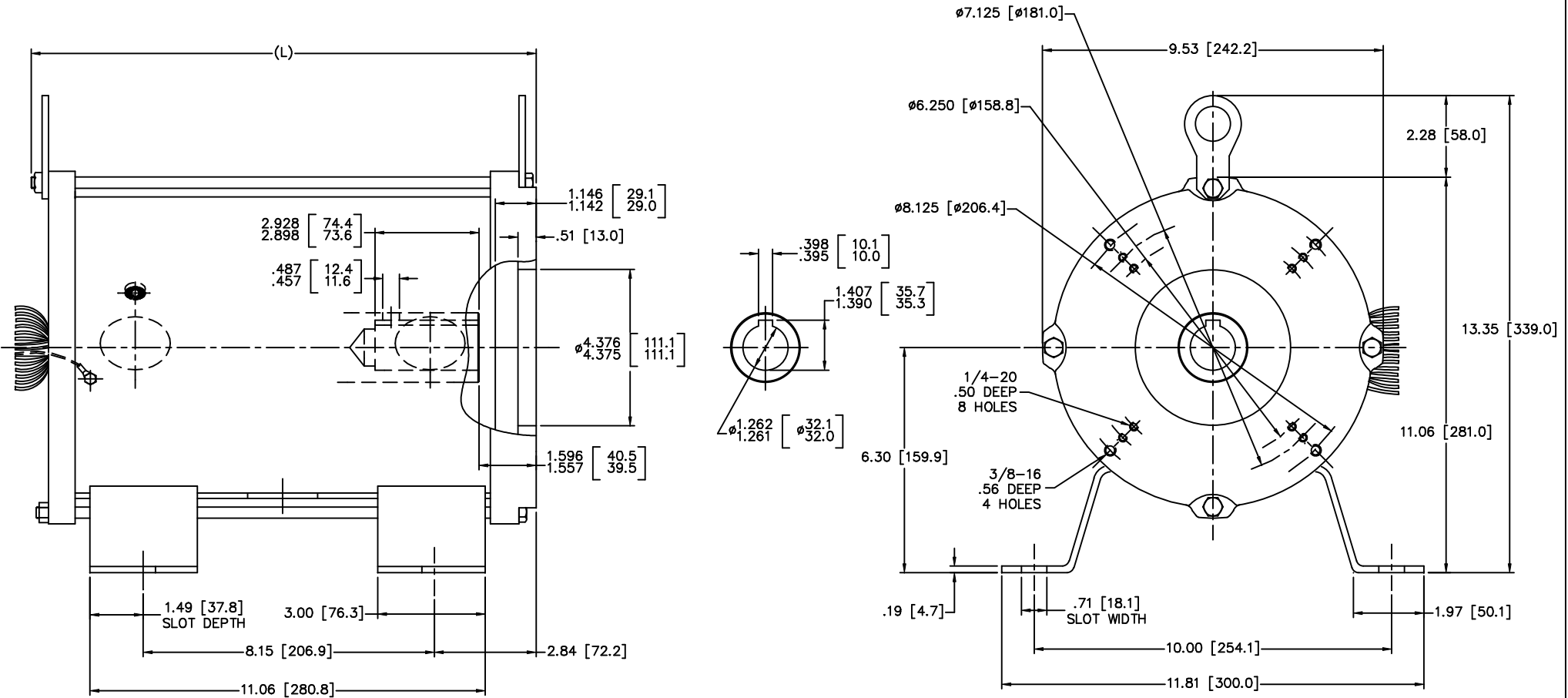


### Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	575 & 575 V
Speed	3515 & 3530 rpm	Service Factor	1.0
Frame	160TZ	Enclosure	Open Enclosed
Thermal Protection	Thermostat	Efficiency	89.5 & 89.5 %
Ambient Temperature	70 °C	Frequency	60 & 60 Hz
Current	46.5 & 37.5 A	Power Factor	90.5
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	B	KVA Code	G
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	.312 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	15.35 in	Shaft Diameter	1.250 in
Shaft Extension	2.92 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-92652W	Outline Drawing	0216000039



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		
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						CAD FILE 0216000039	SIZE B	DRAWING NO. 0216000039	PAGE OF 1
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 PH. 715-675-3311



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM A-92652W  
 OUTLINE: 0216000039  
 WINDING: 2152209

CAT #: LM29673

NONE 2

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
50	37	3600	3510	160M	OPEN	TDR	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	46.5	VVE START DELTA RU	30 MIN	F	1.15	70	3300

F.L. EFF	89.5	3/4 LD EFF	91.0	1/2 LD EFF	91.7	GTD EFF	ELECT. TYPE
F.L. PF	90.0	3/4 LD PF	88.0	1/2 LD PF	82.5	81.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
75.0 LB-FT	220	200 LB-FT 267%	150 LB-FT 200%	0

PRESSURE @	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	0.00 LB-FT <sup>2</sup>	0 LB-FT <sup>2</sup>	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

<b>* N O T E S *</b>	<b>INVERTER TORQUE: NONE</b>					
	<b>INV. HP SPEED RANGE: NONE</b>					
	<b>ENCODER: NONE</b>					
	NONE NONE NONE <span style="float: right;">NONE PPR</span>					

<b>DATE:</b> 1/31/2018	<b>BRAKE: NONE</b>					
	NONE <span style="float: right;">NONE</span>					
	<b>FT-LB:</b> NA					
	<b>VOLTAGE:</b> NONE <span style="float: right;"><b>HZ:</b></span>					
<b>UL: V-INS, CONST UL REC</b>						

Data Sheet

Date: 1/31/2018

LM29673



Data @ 575 V

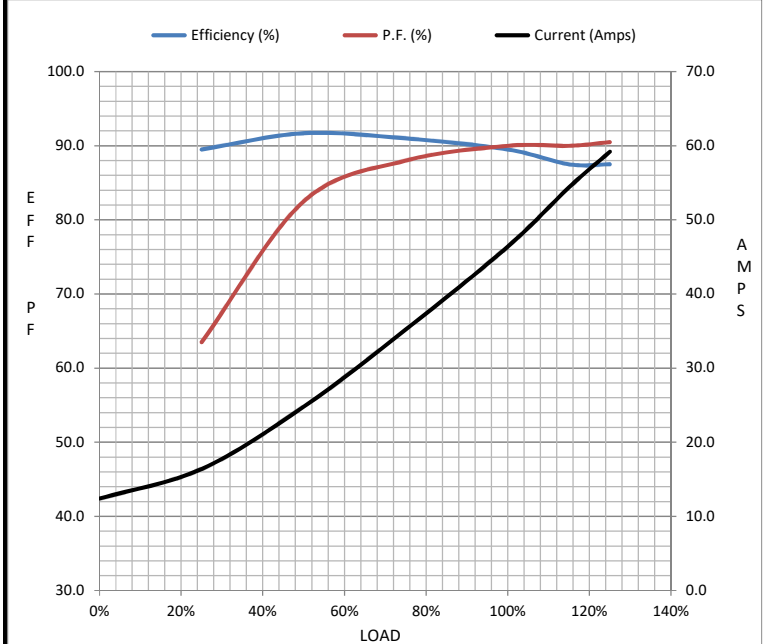
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	12.4	16.4	24.8	35.2	46.4	54.4	59.2	220
Torque (ft-lb)	0.00	18.5	37.0	56.0	75.0	87.0	95.0	200
RPM	3600	3580	3560	3535	3510	3,490	3480	0
Efficiency (%)		89.5	91.7	91.0	89.5	87.5	87.5	
P.F. (%)	7.0	63.5	82.5	88.0	90.0	90.0	90.5	76.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3312	3510	3600
Current (Amps)	220	300	340	46.4	12.4
Torque (ft-lb)	200	135	150	75.0	0.00

Information Block				
HP	50.0			
Sync. RPM	3600			
Frame	160			
Enclosure	OPEN			
Construction	TDR			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	0 °C			
Duty	30 MIN			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.00 Lb-Ft <sup>2</sup>			
Ref Wdg	2152209 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	0216000039			
Conn. Diag	A-92652W			
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

