

PRODUCT INFORMATION PACKET



Model No: LM29656

Catalog No: LM29656

Elevator Duty Motor, 15 & 10 HP, 3 Ph, 60 & 60 Hz, 200 & 200 V, 3600 & 3600 RPM, 160TZ Frame, OPEN



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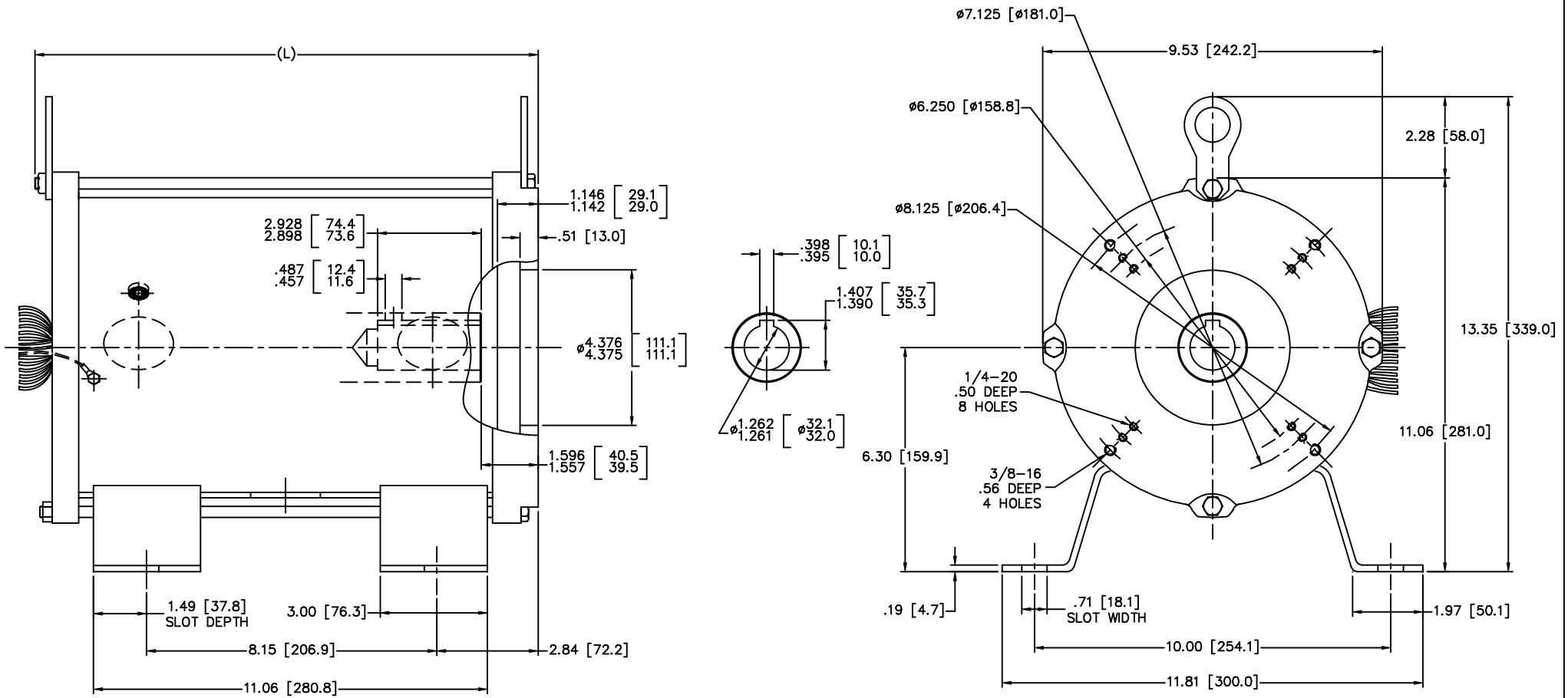


Nameplate Specifications

Phase	3	Output HP	15 & 10 Hp
Output KW	11.2 & 7.5 kW	Voltage	200 & 200 V
Speed	3525 & 3535 rpm	Service Factor	1.0 & 1.0
Frame	160TZ	Enclosure	Open Enclosed
Thermal Protection	Thermostat	Efficiency	82.5 & 76.5 %
Ambient Temperature	70 °C	Frequency	60 & 60 Hz
Current	48.5 & 37 A	Power Factor	81.3
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	B	KVA Code	F
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

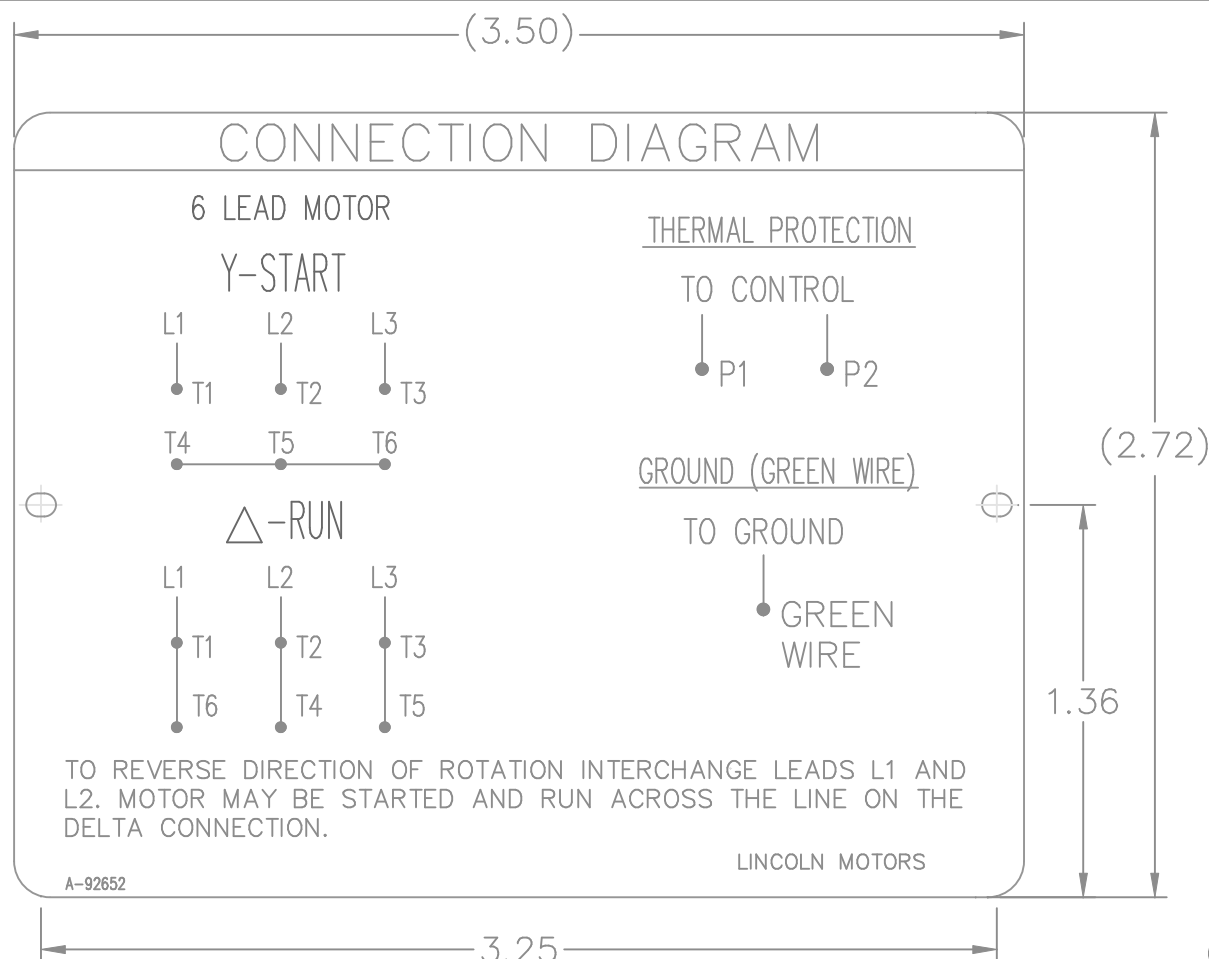
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	1.27 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall 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
Connection Drawing	A-92652	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	

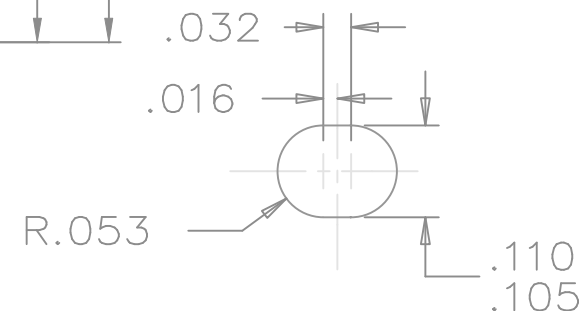
(MAY NOT BE DRAWN TO SCALE)

			TOLERANCES UNLESS SPECIFIED			DRAWN MSG 01-25-2007	
			DEC.	INCHES		CHK	ML 01-25-2007
			.X	±.1		APPD	GK 01-25-2007
			.XX	±.03	TITLE OUTLINE - SUBMERSIBLE ELEVATOR PUMP 160ZBS FR. - 3 PHASE - DUAL DIMENSIONS	SCALE	3-8
			.XXX	±.005		REF	
1	UPDATED TO CURRENT STANDARDS	DRS	.XXXX	±.0005	MAT'L	FMF	HEBEI
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV	
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			DIST			B	0216000039 1



NOTES:

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



				TOLERANCES UNLESS SPECIFIED					DRAWN CTO 02-18-2004				
				DEC.	INCHES				CHK	ML	02-18-2004		
				.X	±.1				APPD	MS	02-18-2004		
				.XX	±.02	TITLE CONNECTION DIAGRAM PLATE			SCALE 1.5=1				
				.XXX	±.005				REF				
				.XXXX	±.0005	MAT'L. 304 STAINLESS STEEL			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	02-18-2004		CAD FILE 92652		SIZE	DRAWING NO.	PAGE	OF	REV.
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P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-92652
OUTLINE: 0216000039
WINDING: 2152204

CAT #: LM29656

NONE 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
15	11.2	3600	3500	160M	DP	TDR	H	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	200	47	VVE START DELTA RU	30 MIN	F	1.15	70	3300

F.L. EFF	86.5	3/4 LD EFF	87.5	1/2 LD EFF	86.5	GTD EFF	ELECT. TYPE
F.L. PF	78.5	3/4 LD PF	70.0	1/2 LD PF	56.0	68.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
22.5 LB-FT	288	36.0 LB-FT 160%	62.0 LB-FT 276%	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	10 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						
BALL BALL	POLYREX EM	SGL SPL EXT	ELEVATOR MOTOR SH	NONE	AISI 1045 (C-240)	ROLLED STEEL
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

DATE: 1/29/2018	BRAKE: NONE	
	FT-LB: NONE	NONE
	VOLTAGE: NA	NONE
	UL: V-INS, CONST UL REC	HZ:

Data Sheet

Date: 1/29/2018

LM29656



Data @ 200 V

Motor Load Data

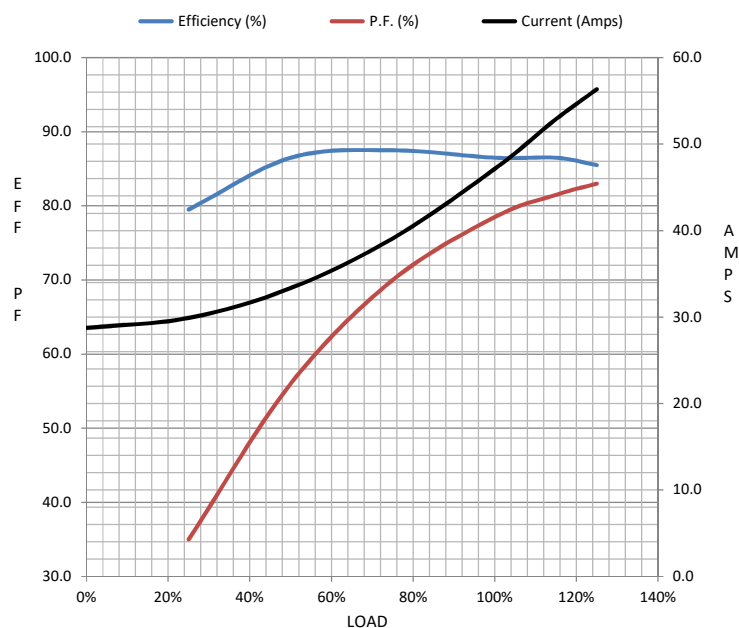
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	28.8	29.9	33.4	39.1	47.2	52.9	56.4	288	
Torque (ft-lb)	0.00	5.5	11.0	16.5	22.5	26.0	28.5	36.0	
RPM	3600	3578	3555	3535	3500	3,490	3480	0	
Efficiency (%)		79.5	86.5	87.5	86.5	86.5	85.5		
P.F. (%)	7.0	35.0	56.0	70.0	78.5	81.5	83.0	48.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2975	3500	3600
Current (Amps)	288	265	230	47.2	28.8
Torque (ft-lb)	36.0	32.0	62.0	22.5	0.00

Information Block

HP	15.0			
Sync. RPM	3600			
Frame	160			
Enclosure	DP			
Construction	TDR			
Voltage	200 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 wk²	0.00 Lb-Ft²			
Ref Wdg	2152204 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	0216000039			
Conn. Diag	A-92652			
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

