

PRODUCT INFORMATION PACKET



Model No: LM28910

Catalog No: LM28910

Elevator Duty Motor, 60 & 75 HP, 3 Ph, 60 & 60 Hz, 230/460 & 230/460 V, 1800 & 1800 RPM,
364T Frame, DP



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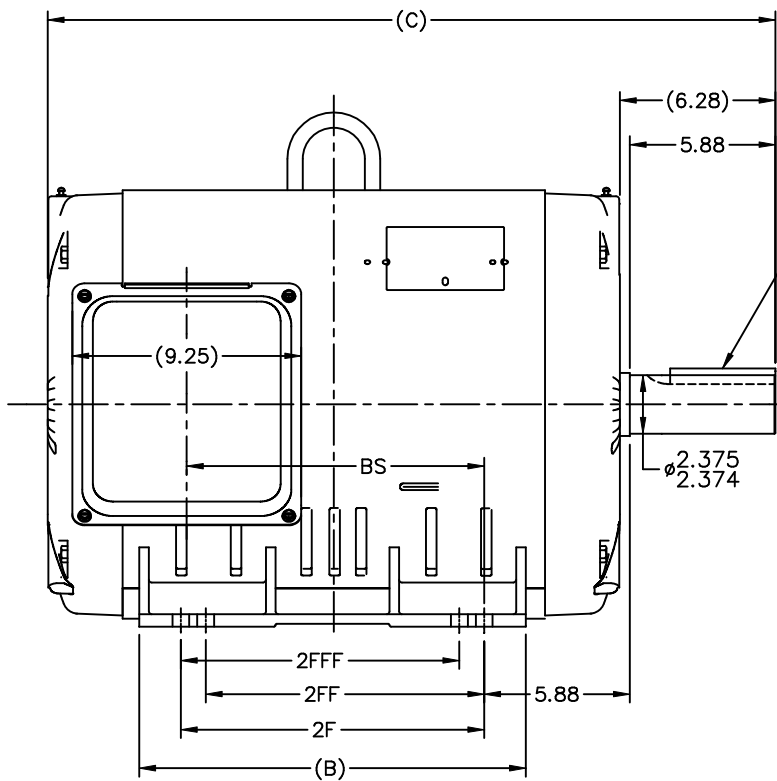


Nameplate Specifications

Phase	3	Output HP	60 & 75 Hp
Output KW	45.0 & 56.0 kW	Voltage	230/460 & 230/460 V
Speed	1785 & 1785 rpm	Service Factor	1.0 & 1.0
Frame	364T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93.6 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	145/72.5 & 179/89.5 A	Power Factor	82
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	INV	KVA Code	F
Drive End Bearing Size	313	Opp Drive End Bearing Size	311
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

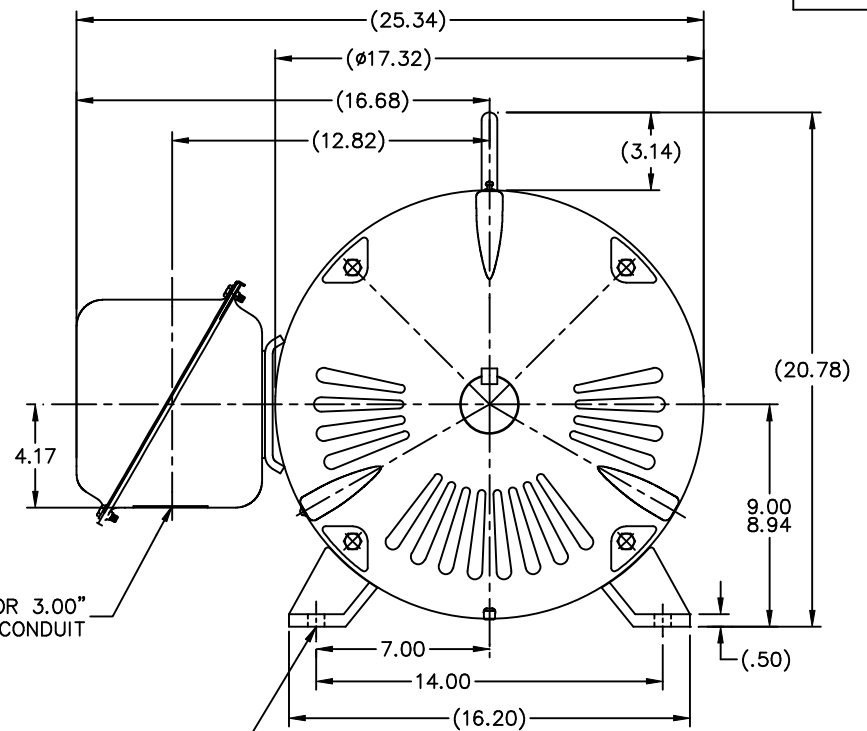
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.106 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	28.40 in
Frame Length	15.48 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XH2D1SS1-1548	Connection Drawing	A-EE7308AA-LN



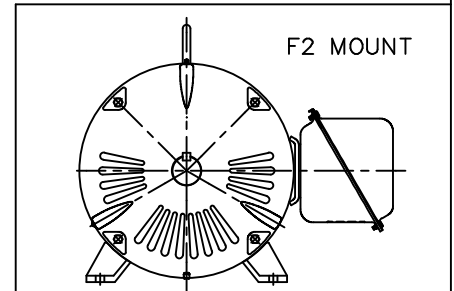
.62x.62x4.25
KEY

2.375
2.374



HOLE FOR 3.00"
CONDUIT

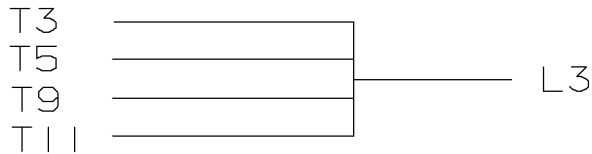
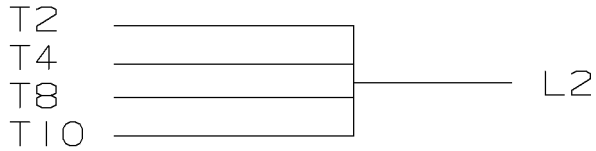
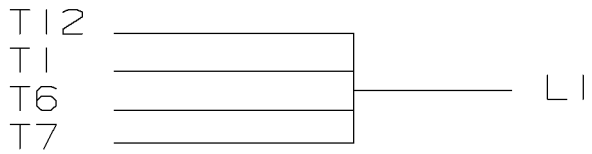
Ø.68 DRILL THRU
364 - 2 HOLES EACH SIDE
365 - 4 HOLES EACH SIDE



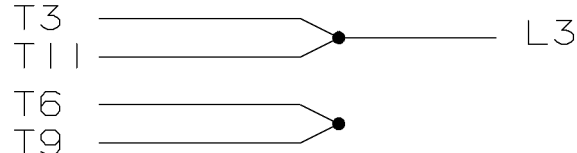
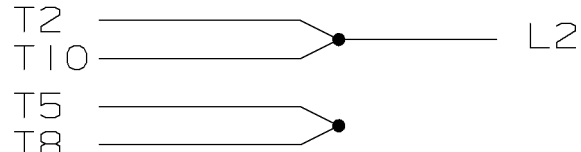
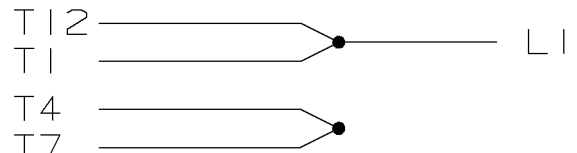
NOTES:
1. NAMEPLATES TO BE READ FROM CONDUIT BOX
SIDE OF MOTOR.

DASH	FRAME	C	B	2F	2FF	2FFF	BS
1548	364T	28.40	14.61	11.25	11.25	11.25	11.02
1648	365T	29.40	15.61	12.25	11.25	11.25	12.02

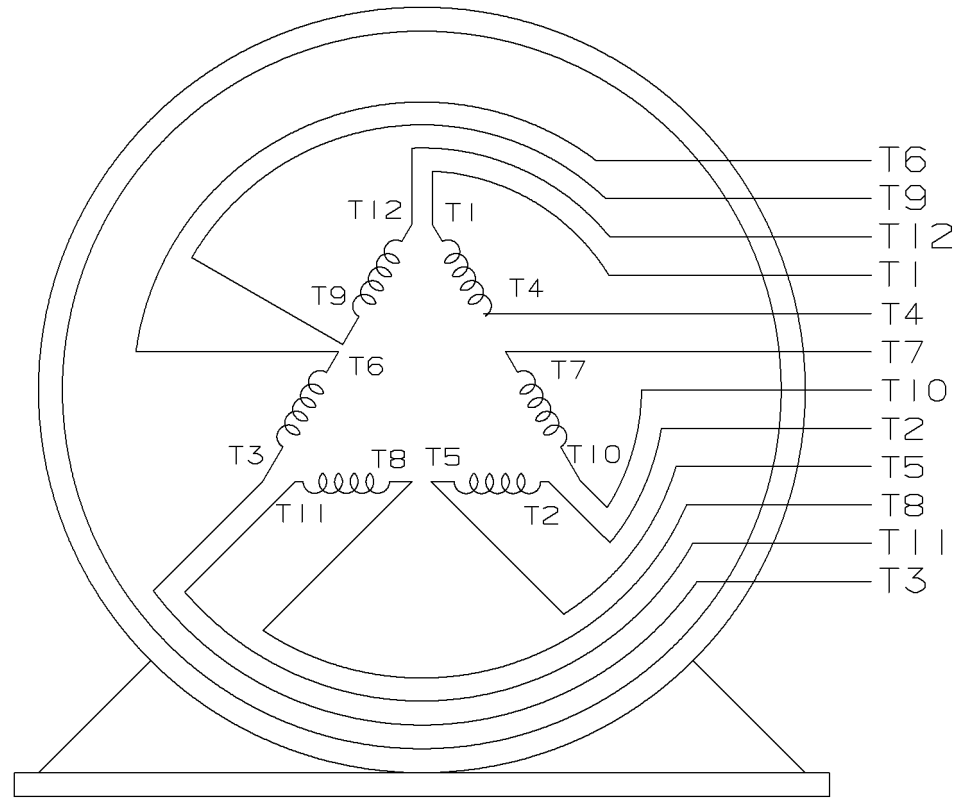
		TOLERANCES UNLESS SPECIFIED		Lincoln MOTOR		DRAWN TJB 08-07-2001	
		DEC.	INCHES			CHK	DRS 09-04-2001
		.X	±.1			APPD	HNH 09-04-2001
2	ADDED DASH 1548, REVISED PART NAME; U.E.I. WAS U.E. CN34267	.XX	±.03	TITLE OUTLINE NEMA MOTORS 360T FRAME OPD UEI		SCALE	1=5
1	NEW DRAWING MU37565	.XXX	±.005			REF	
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	FMF	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 09-04-2001	±7'30"	CAD FILE xh2d1ss1		SIZE	DRAWING NO. PAGE 1 OF 1 REV.
		DIST BY				B	XH2D1SS1 2



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

					<input checked="" type="checkbox"/> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7'30"		
2	08-09-1999	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR			MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED	
1	06-18-1999	NEW DRAWING	TRB	FINISH		CHKD BY ML	06-18-1999
				MATERIAL		APPD BY GK	06-18-1999
REV	DATE	CHANGE	NAME	PART NAME 3 PHASE CONNECTION DIAGRAM 2/1 DELTA - 12 LEADS		DRWG NO A- EE7308AA-LN	

PURCHASED

CADD FILE NO.

EE7308AALN

ERROR: undefined
OFFENDING COMMAND: Pscrip

STACK:



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308AA-LN
OUTLINE: XH2D1SS1-1548
WINDING #: C3644009 R2 1

CATALOG : LM28910

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60&75	45.0&56.0	1800	1785&1785	364T	DP	F	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/60	230/460&230/460	145/72.5&179/89.5	WYE START DELTA RUN	120/80 STARTS/HOUR	F4	1.0/1.0	40

FULL LOAD EFF:	93.6&93.6	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	93	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	82&83.5	3/4 LOAD PF:	77	1/2 LOAD PF:	68	92.4		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
177 LB-FT	870 / 435	325 LB-FT 184 %	450 LB-FT 254 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
76 dBA	86 dBA	0 LB-FT^2	- LB-FT^2	- SEC.	-	- LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	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	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
313	311						

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

*
N
O
T
E
S

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

Data Sheet

Date: 1/31/2018

LM28910



Data @ **460 V**

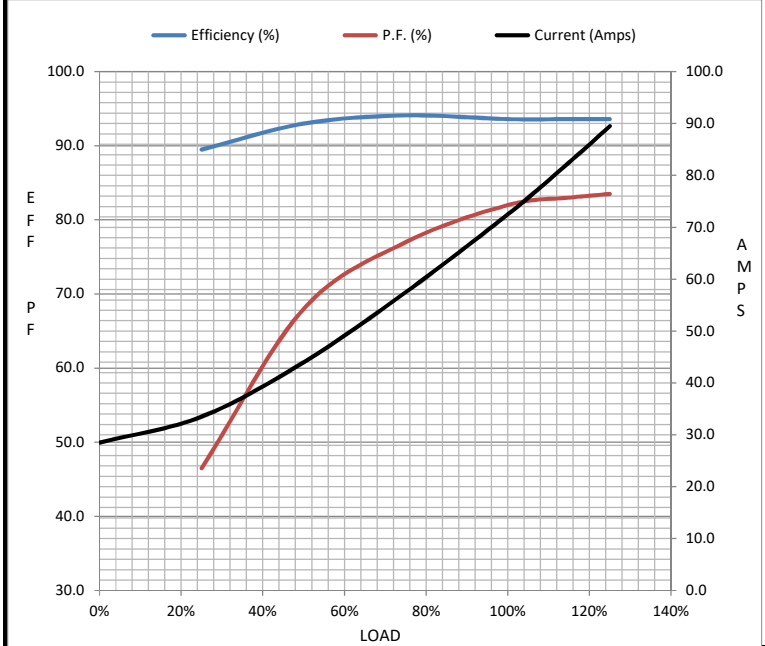
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	28.5	33.5	44.0	57.5	72.5	82.5	89.5	435
Torque (ft-lb)	0.00	44.0	88.0	132	177	203	221	325
RPM	1800	1795	1792	1788	1785	1782	1780	0
Efficiency (%)		89.5	93.0	94.1	93.6	93.6	93.6	
P.F. (%)	5.0	46.5	68.0	77.0	82.0	83.0	83.5	34.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1785	1800
Current (Amps)	435	390	280	72.5	28.5
Torque (ft-lb)	325	290	450	177	0.00

Information Block				
HP	60.0			
Sync. RPM	1800			
Frame	364			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	60 MIN			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.00 Lb-Ft ²			
Ref Wdg	C3644009 R2			
Sound Pressure @ 1M	76 dBA			
VFD Rating	NONE			
Outline Dwg	XH2D1SS1-1548			
Conn. Diag	A-EE7308AA-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0710	0.0330	0.3640	0.5160	9.2240



Speed - Torque Curve

