

PRODUCT INFORMATION PACKET



Model No: LM34121
Catalog No: LM34121
75 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 365T Frame, ODP
Special Voltage Motors



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Nameplate Specifications

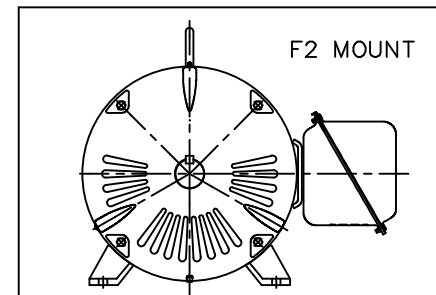
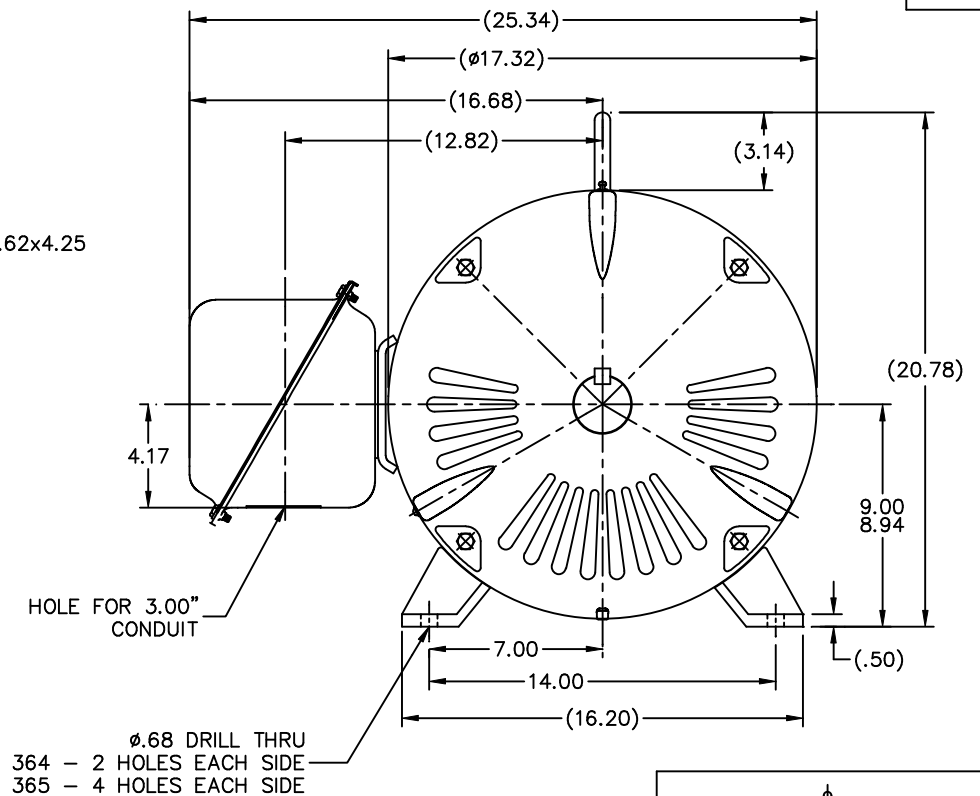
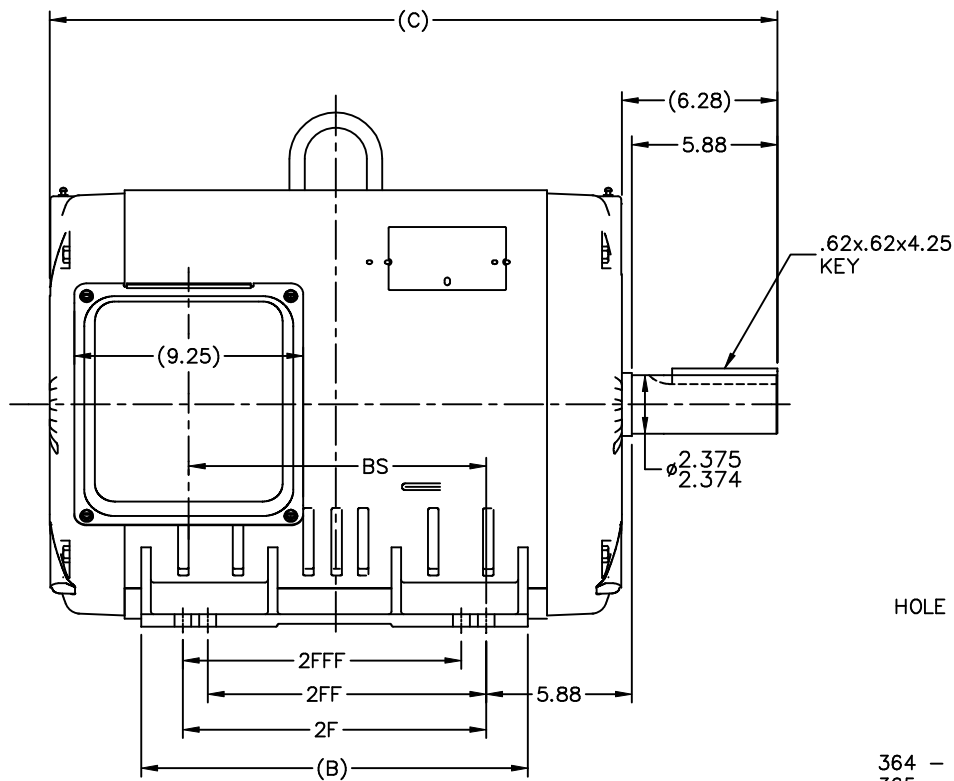
Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	575 V
Current	70.5 A	Speed	1782 rpm
Service Factor	1.25	Phase	3
Efficiency	95 %	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	365T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6311
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	.067 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	29.40 in
Frame Length	16.48 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	XH2D1SS1-1648	Connection Drawing	A-EE7340-LN

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XH2D1SS1

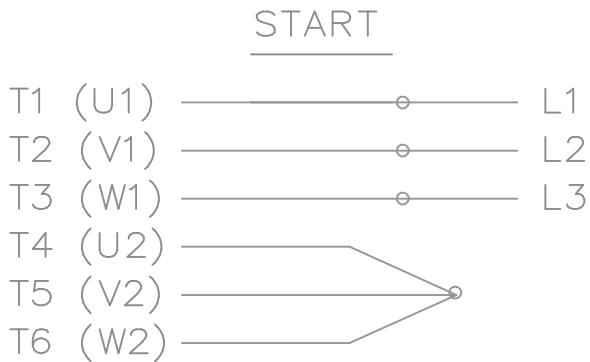


NOTES:

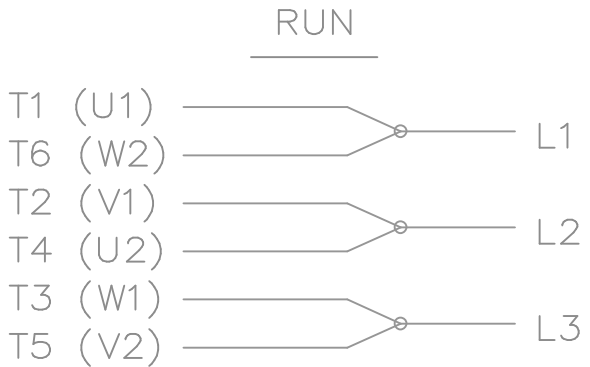
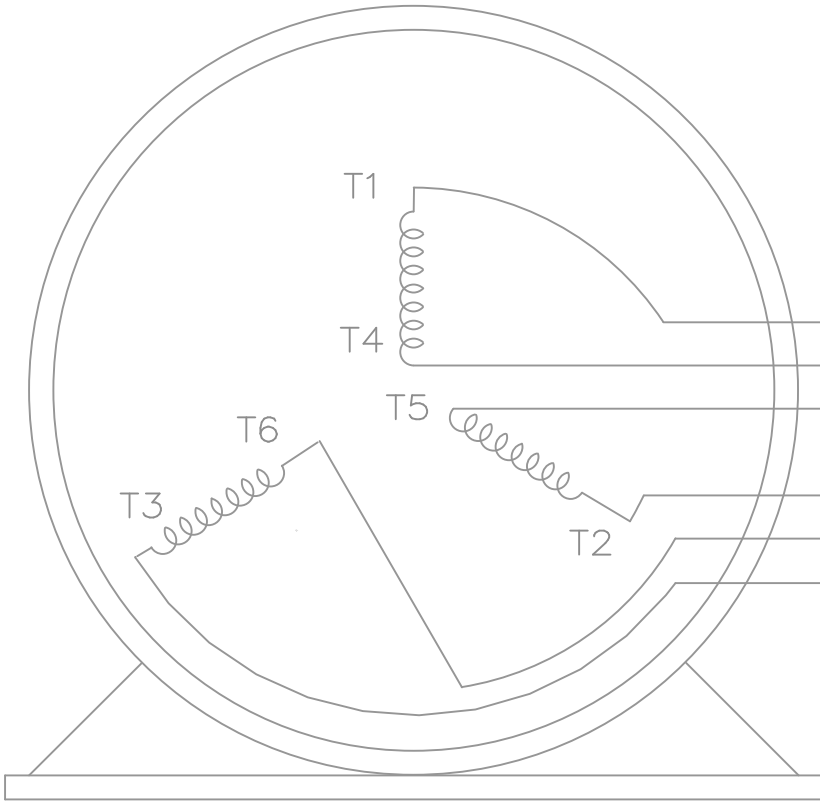
1. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

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

		TOLERANCES UNLESS SPECIFIED				Lincoln Motors	DRAWN TJB 08-07-2001 CHK DRS 09-04-2001 APPD HNH 09-04-2001 SCALE 1=5 REF FMF PREV
DEC.	INCHES	.X	±.1	.XX	±.03		
2	ADDED DASH 1548, REVISED PART NAME; U.E.I. WAS			.XXX	±.005	TITLE OUTLINE NEMA MOTORS 360T FRAME OPD UEI	
	U.E. CN34267	MSG	09-25-2001				
1	NEW DRAWING MU37565	TJB	09-04-2001	.XXXX	±.0005	FINISH	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"		
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	CAD FILE xh2d1ss1	SIZE B DRAWING NO. XH2D1SS1 PAGE 1 OF 1 REV. 2
				DIST	BY		



THREE PHASE — Y START
 Δ RUN MOTOR



T1 (U1)
 T4 (U2)
 T5 (V2)
 T2 (V1)
 T6 (W2)
 T3 (W1)

T6CK
 T6BM
 T4CC
 T2DL
 T4C

NOTE:
 IEC LEAD MARKINGS ARE NOTED
 IN PARENTHESES

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED						DRAWN BLR 10-04-1999			
				DEC.	INCHES					CHK DRS 10-04-1999			
				.X	±.1					APPD TB 10-04-1999			
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML	.XX	±.02		TITLE CONNECTION DIAGRAM 3ø – WYE START DELTA RUN					SCALE 1=1	
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML	.XXX	±.005							REF	
1	NEW DRAWING	BLR 10-09-1999		.XXXX	±.0005		MAT'L.					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			CAD FILE ee7340_In				SIZE	DRAWING NO.	PAGE OF	REV.
			DIST WA-LB-SB							A	EE7340-LN		3



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: XH2D1SS1-1648
WINDING: L3654030

CAT #: LM34121

NONE 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	1800	1782	365T	DP	TDR	G	BC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	70.5	VYE START DELTA RU	CONT	F	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	95.0	1/2 LD EFF	94.5	GTD EFF	94.1	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	84.0	3/4 LD PF	81.0	1/2 LD PF	73.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
221 LB-FT	434	495 LB-FT 224%	500 LB-FT 226%	45

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
76 dBA	85 dBA	0.00 LB-FT²	0 LB-FT²	0 SEC.	0	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	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6313 6311						

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
0.071	0.047	0.502	0.721	14.352	0.150	ODE

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

DATE: 2/1/2018	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
	UL: V-INS, CONST UL REC	

Data Sheet

Date: 2/1/2018

LM34121



Data @ 575 V

Motor Load Data

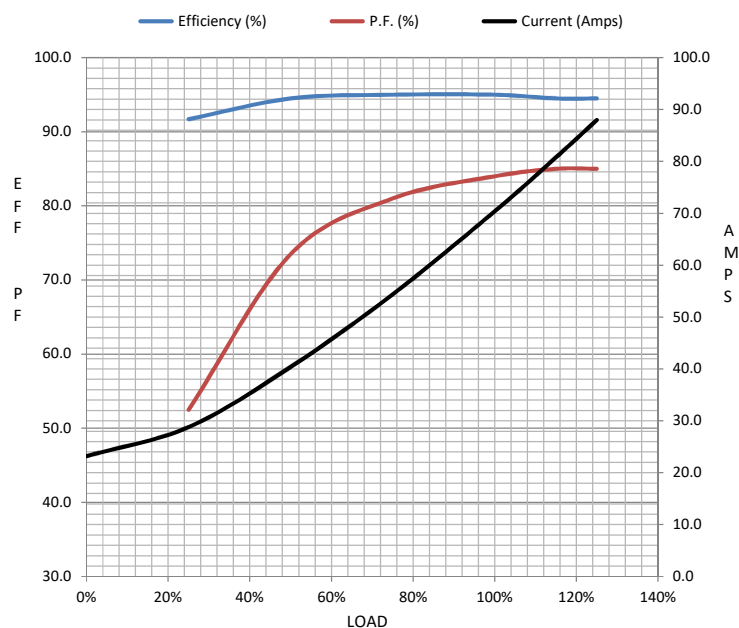
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	23.2	28.8	40.4	54.4	70.4	80.8	88.0	434	
Torque (ft-lb)	0.00	55.0	110	165	221	255	277	495	
RPM	1800	1795	1790	1785	1782	1.778	1775	0	
Efficiency (%)		91.7	94.5	95.0	95.0	94.5	94.5		
P.F. (%)	3.5	52.5	73.5	81.0	84.0	85.0	85.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1782	1800
Current (Amps)	434	390	234	70.4	23.2
Torque (ft-lb)	495	420	500	221	0.00

Information Block

HP	75.0			
Sync. RPM	1800			
Frame	365			
Enclosure	DP			
Construction	TDR			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	L3654030 NONE			
Sound Pressure @ 1M	76 dBA			
VFD Rating	NONE			
Outline Dwg	XH2D1SS1-1648			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0710	0.0470	0.5020	0.7210	14.3520



Speed - Torque Curve

