

PRODUCT INFORMATION PACKET



Model No: LM13734

Catalog No: LM13734

General Purpose Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 415 V, 1800 & 1500 RPM, 445TC Frame,
TEFC



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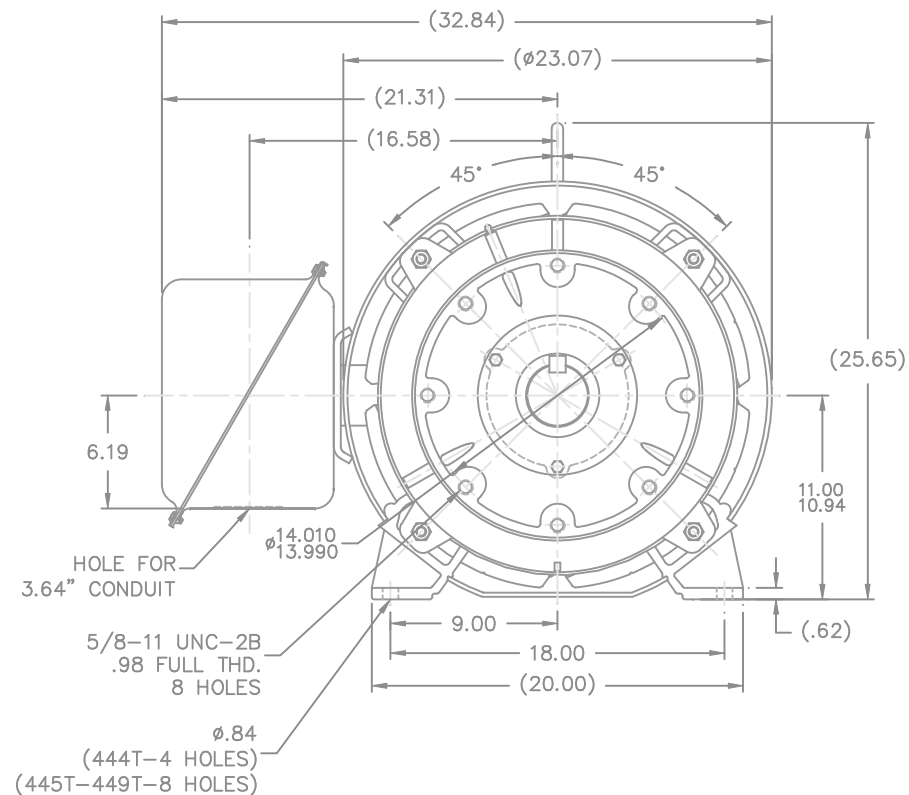


Nameplate Specifications

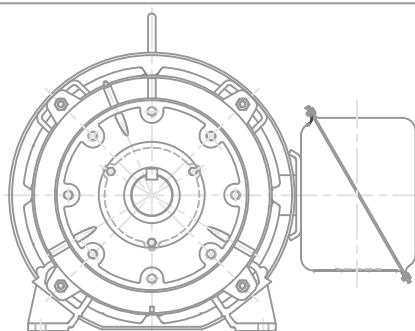
Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 415 V
Speed	1785 & 1488 rpm	Service Factor	1.15 & 1.0
Frame	445TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	96.2 & 95.8 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	168 & 158 A	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	318	Opp Drive End Bearing Size	315
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.026 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	43.49 in
Frame Length	23.17 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7340-LN	Outline Drawing	XK2F1SC1-2317



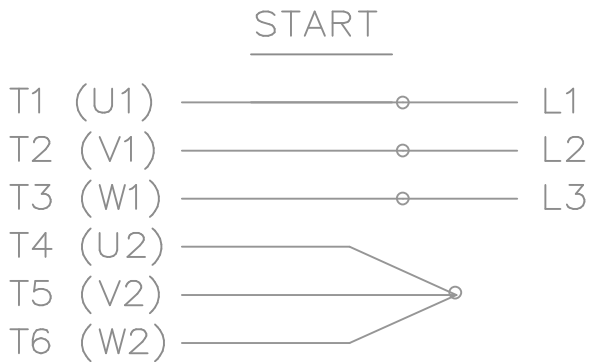
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS
2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.



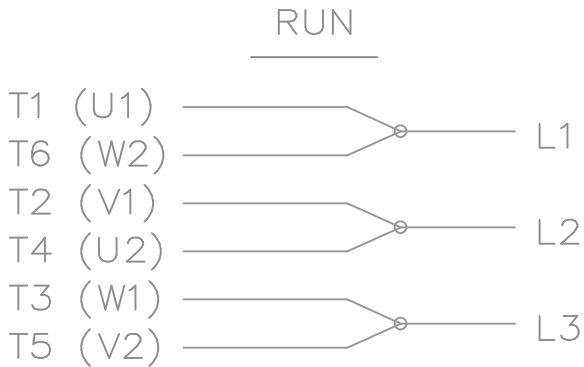
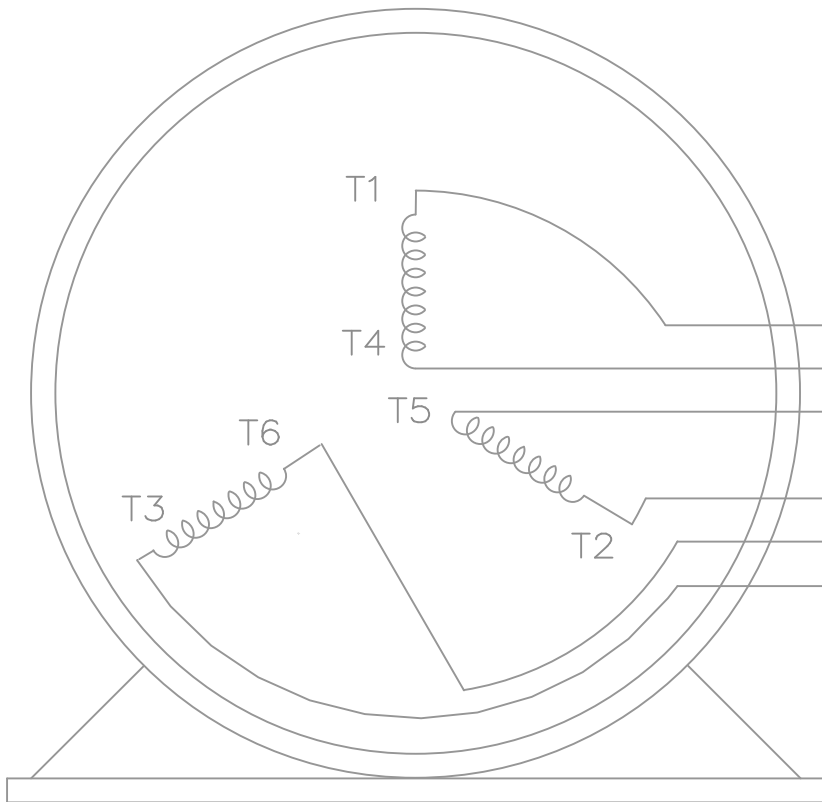
F2 VIEW

DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS
2117	444T	41.49	33.24	18.00	14.50			14.20
2317	445T	43.49	35.24	20.00	16.50	14.50	14.50	16.20
2667	447T	46.99	38.74	23.50	20.00	16.50	16.50	19.70
3167	449T	51.99	43.74	28.50	25.00	20.00	20.00	23.95

				TOLERANCES UNLESS SPECIFIED		DRAWN BJK 08-13-2002
				DEC.	INCHES	CHK ML 08-13-2002
				.X	±.1	APPD HNH 08-19-2002
3	REPLACED BLOWER SHROUD PER ISAAC 08-5529	MSG 01-08-2009	MSG .XX	±.03	TITLE OUTLINE NEMA MOTORS	SCALE 3=20
2	#14.010/13.990 WAS #13.518/13.498 CN 32990	DRS 02-17-2005	ML .XXX	±.005	440T TEFC UE DE C-FACE	REF
1	NEW DRAWING	BJK 08-19-2002	HNNH .XXXX	±.0005	MAT'L	FMF
NO.	REVISION	BY & DATE	CHK ANG	±730"	FINISH	PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK AND WITHOUT OUR WRITTEN PERMISSION. THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT						RFP CAD FILE xk2f1sc1
DIST BY						B SIZE XK2F1SC1 PAGE OF REV. 3



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	±'30"	FINISH	PREV	
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			DIST	WA-LB-SB				



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7340-LN

OUTLINE: XK2F1SC1-2317

CATALOG # : LM13734

WINDING #: L4454041 1

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150&125	112&93.0	1800	1785&1488	445TC	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&415	168&158	WYE START DELTA RUN	CONTINUOUS	F1	1.15/1.0	40

FULL LOAD EFF:	96.2&95.8	3/4 LOAD EFF:	96.2	1/2 LOAD EFF:	95.4	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	87&85.5	3/4 LOAD PF:	85	1/2 LOAD PF:	79	95.4		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
441 LB-FT	1085	935 LB-FT 212 %	1040 LB-FT 236 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0 LB-FT^2	0 LB-FT^2	0 SEC.	0	- LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	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
318	315						

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

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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: 1/18/2018

LM13734



Data @ 460 V

Motor Load Data

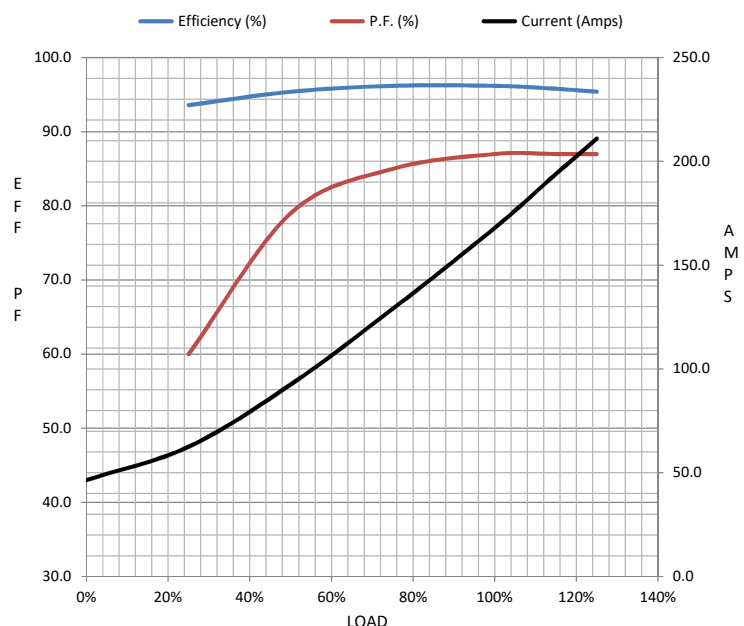
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	46.5	62.5	92.5	129	168	194	211	1,085	
Torque (ft-lb)	0.00	110	220	330	441	508	553	935	
RPM	1800	1797	1793	1790	1785	1,784	1782	0	
Efficiency (%)		93.6	95.4	96.2	96.2	95.8	95.4		
P.F. (%)	4.5	60.0	79.0	85.0	87.0	87.0	87.0	33.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,085	977	575	168	46.5
Torque (ft-lb)	935	888	1,040	441	0.00

Information Block

HP	150.0			
Sync. RPM	1800			
Frame	445			
Enclosure	TEFC			
Construction	TFR			
Voltage	460#415 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	L4454041 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	XK2F1SC1-1657			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0210	0.0130	0.1630	0.2150	5.6700



Speed - Torque Curve

