

PRODUCT INFORMATION PACKET



Model No: LM13822

Catalog No: LM13822

General Purpose Motor, 250 & 250 HP, 3 Ph, 60 & 50 Hz, 460 & 380-415 V, 3600 & 3000 RPM,
445TS Frame, DP



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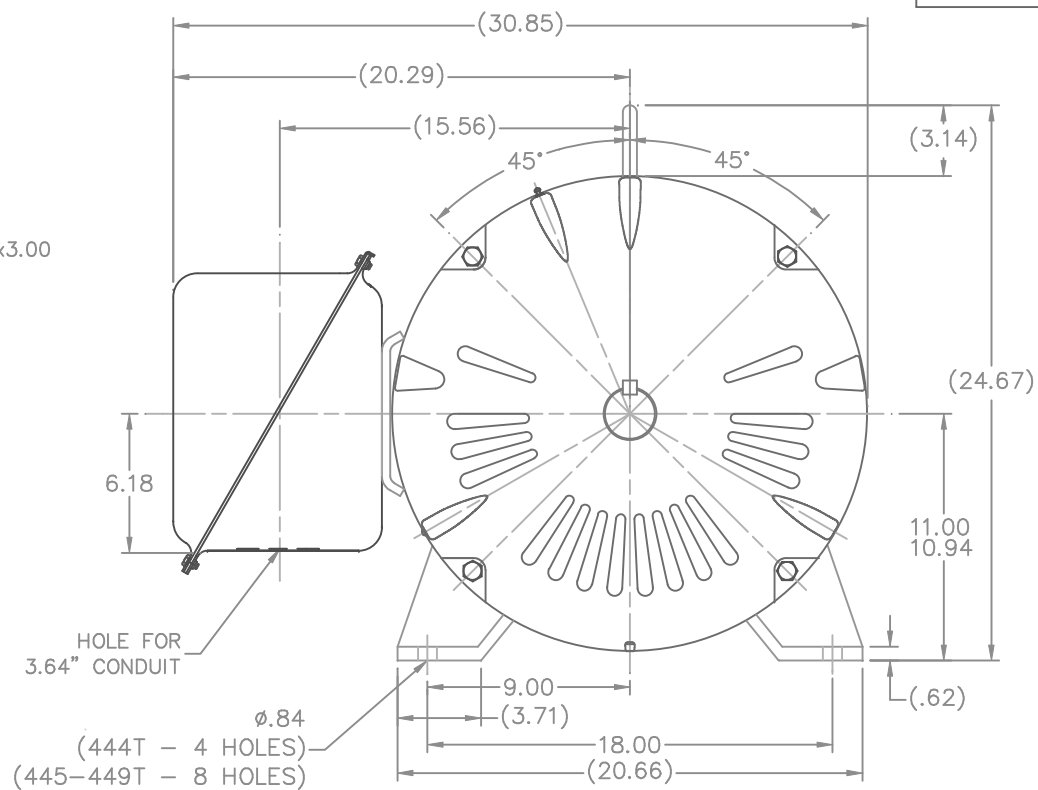
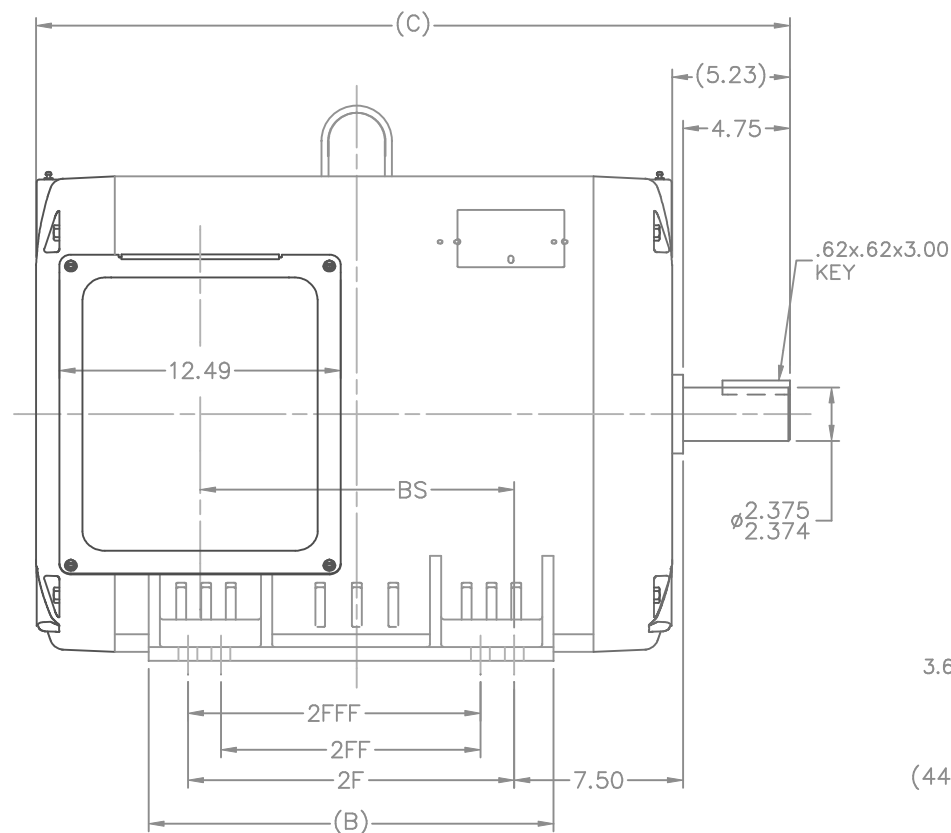


Nameplate Specifications

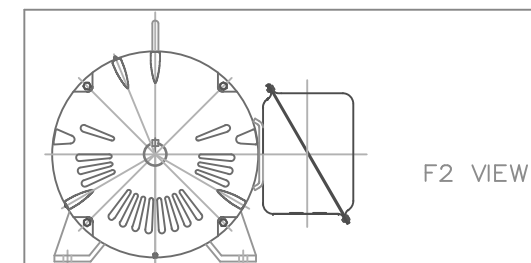
Phase	3	Output HP	250 & 250 Hp
Output KW	187.0 & 187.0 kW	Voltage	460 & 380-415 V
Speed	3575 & 2968 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.8 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	267 & 328-298 A	Power Factor	91.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6315	Opp Drive End Bearing Size	6315
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

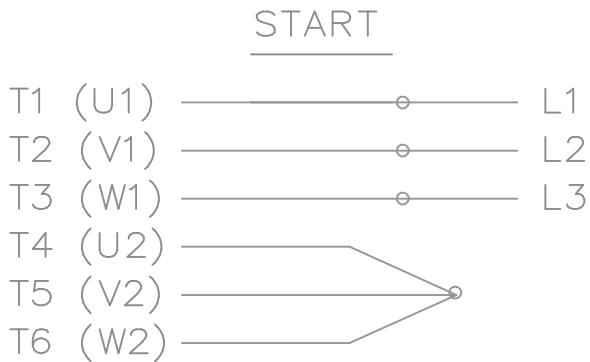
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.014 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	TS	Overall Length	35.50 in
Frame Length	23.27 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1 Only
Outline Drawing	XK2D1SS2-2327	Connection Drawing	A-EE7340-LN



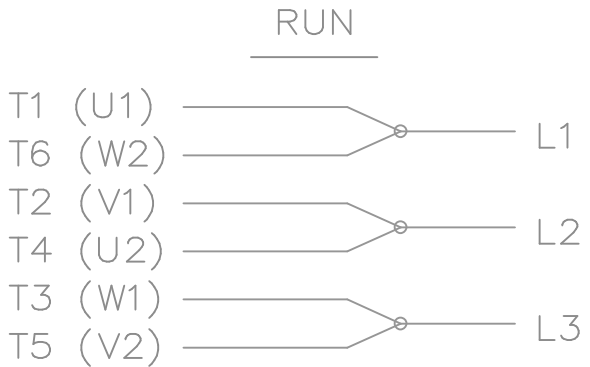
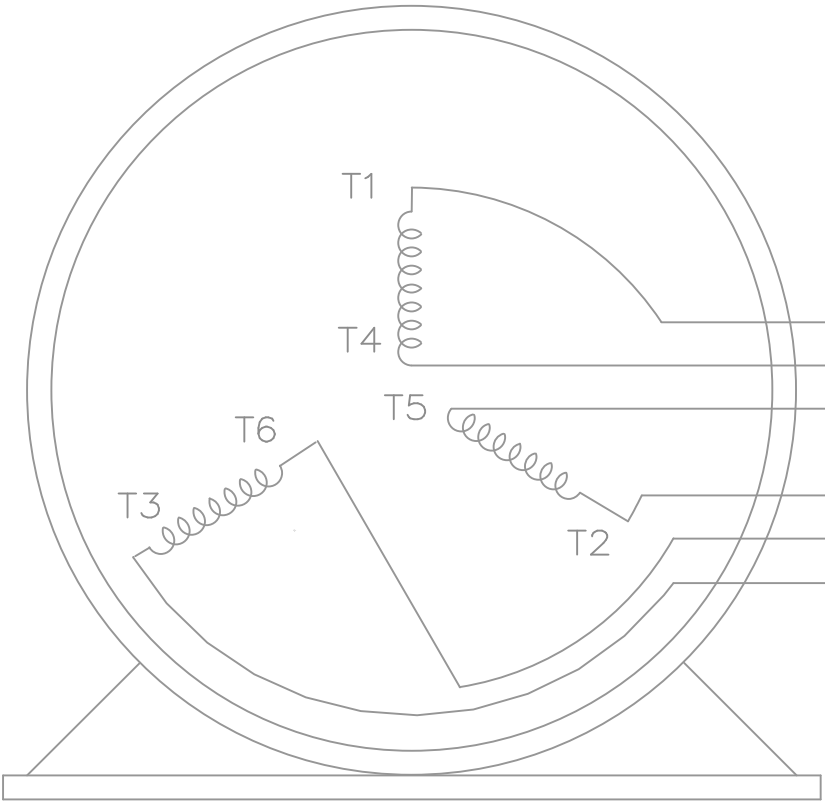
- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX
 SIDE OF MOTOR.



								TOLERANCES UNLESS SPECIFIED				DRAWN TJB 08-08-2001							
								DEC.	INCHES			CHK	ML 08-23-2001						
DASH	FRAME	C	B	BS	2F	2FF	2FFF	4	REVISED FROM 4 TO 4-8 HOLES PER CN 37556	CTO 12-17-2001	IB	.X	±.1	TITLE OUTLINE NEMA MOTORS 440TS OPD UE	APPD HNH 08-30-2001				
2127	444TS	33.50	18.00	13.96	14.50			3	ADDED DASHES 2677 & 3177 CN 29200-2314	CTO 03-22-03	JNH	.XX	±.03		SCALE 1=5.5				
2327	445TS	35.50	20.00	15.96	16.50	14.50	14.50	2	ADDED DASH 2327 CN 29200-2238	NJS 02-22-02	DRS	.XXX	±.005		REF				
2677	447TS	39.00	23.50	19.46	20.00	16.50	16.50	1	NEW DRAWING - REPLACES 3XSD134FSSK-1 MU38160	TJB 08-30-01	ML	.XXXX	±.0005		FMF				
NO.								REVISION		BY & DATE		CHK	ANG	±1/2"	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	sk2d1ss2	SIZE	DRAWING NO.	REV.
												DIST	BY			B	XK2D1SS2	4	



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	3



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: XK2D1SS2-2327
WINDING: L4452008

CAT #: LM13822

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
250	187	3600	3575	445TS	DP	TDR	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380-415	267&328-298	VVE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	95.8	3/4 LD EFF	95.8	1/2 LD EFF	95.4	GTD EFF		ELECT. TYPE	
F.L. PF	91.5	3/4 LD PF	91.5	1/2 LD PF	89.5	95.0		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
367 LB-FT	1,775	500 LB-FT 136%	950 LB-FT 259%	45

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 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	WATTS AVER

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
315 315						

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
0.011	0.007	0.12	0.071	6.17	0.080	ODE

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

DATE: 9/10/2018	BRAKE: NONE	
	NONE NONE	
	FT-LB: NA	
	VOLTAGE: NONE HZ:	

UL: V-INS, CONST UL REC

Data Sheet

Date: 9/10/2018

LM13822



Data @ 460 V

Motor Load Data

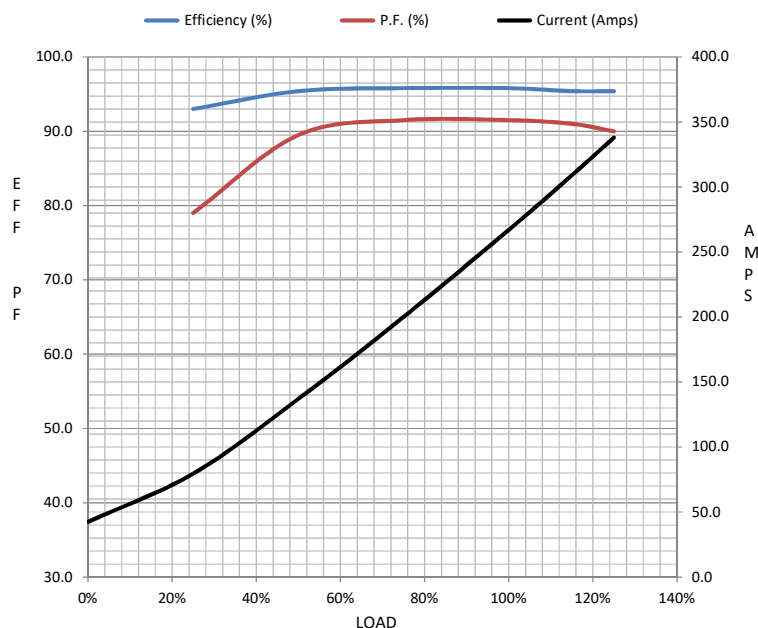
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	42.5	79.5	137	200	267	309	338	1,775	
Torque (ft-lb)	0.00	91.5	183	275	367	423	460	500	
RPM	3600	3595	3590	3582	3575	3,572	3570	0	
Efficiency (%)		93.0	95.4	95.8	95.8	95.4	95.4		
P.F. (%)	8.5	79.0	89.5	91.5	91.5	91.0	90.0	23.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3575	3600
Current (Amps)	1,775	1,600	1,150	267	42.5
Torque (ft-lb)	500	450	950	367	0.00

Information Block

HP	250.0			
Sync. RPM	3600			
Frame	445			
Enclosure	DP			
Construction	TDR			
Voltage	460#380-415		V	
Frequency	60		Hz	
Design	A			
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	L4452008	NONE		
Sound Pressure @ 1M	999		dBA	
VFD Rating	NONE			
Outline Dwg	XK2D1SS2-2327			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0110	0.0070	0.1200	0.0710	6.1700



Speed - Torque Curve

