

PRODUCT INFORMATION PACKET



Model No: LM13825
Catalog No: LM13825
300 HP General Purpose Motor, 3 phase, 3600 RPM, 460 V, 447TS Frame, ODP
General Purpose Motors



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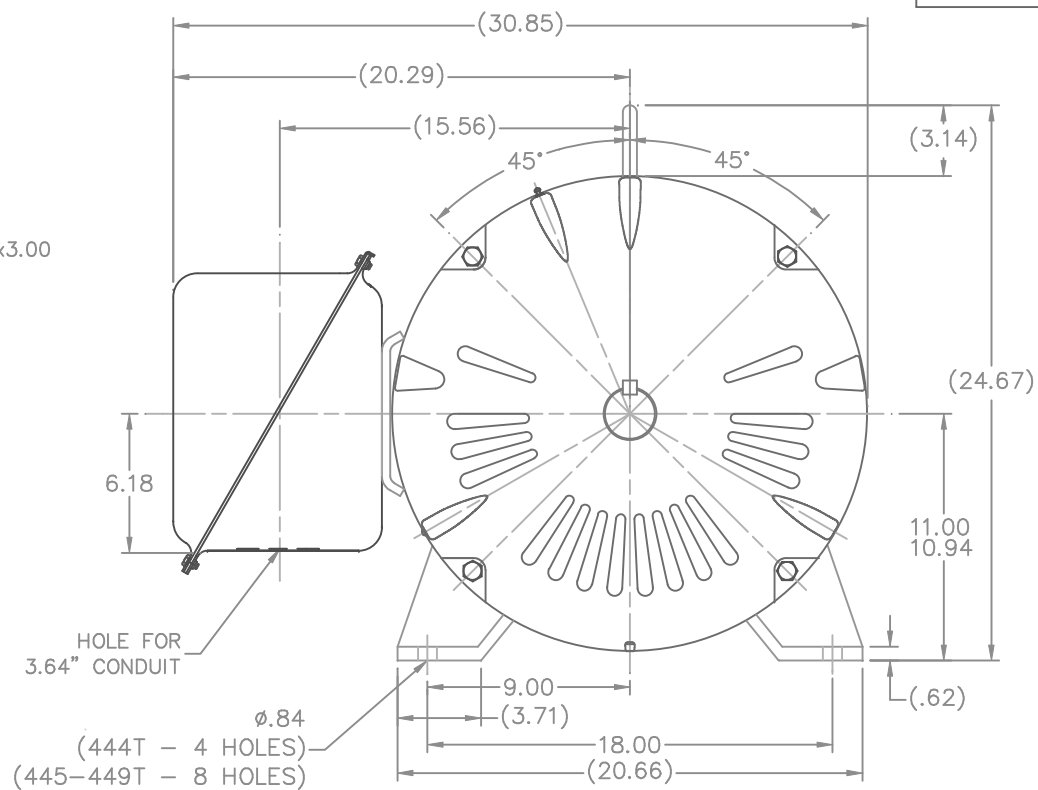
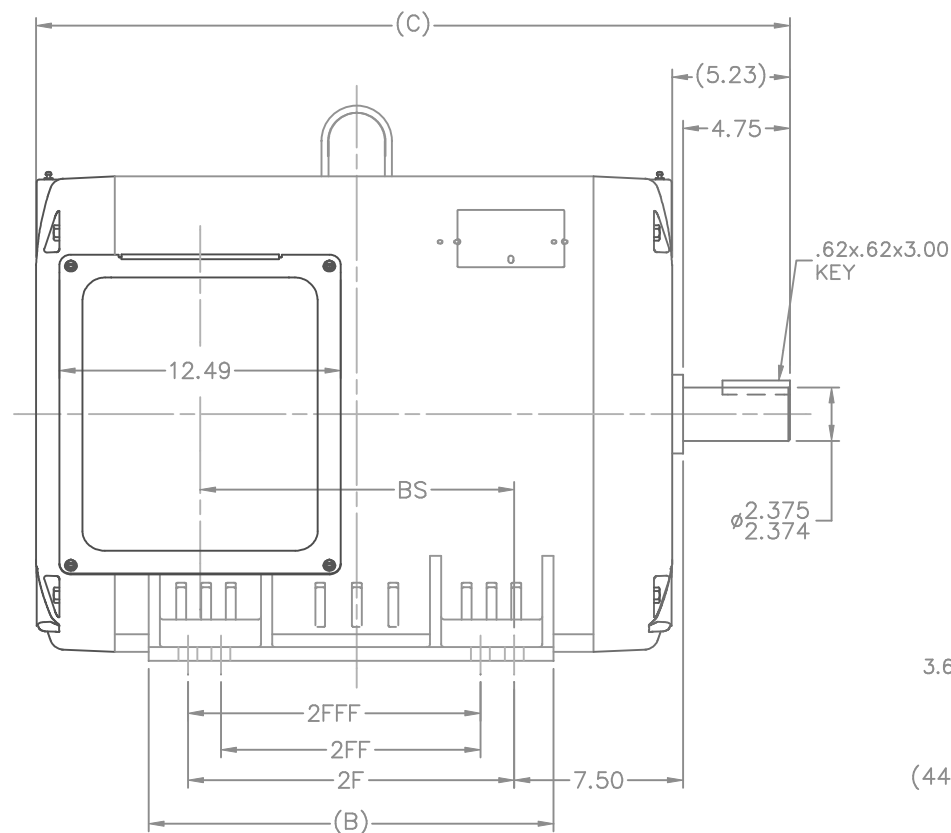
Nameplate Specifications

Output HP	300 Hp	Output KW	224.0 kW
Frequency	60 Hz	Voltage	460 V
Current	316.0 A	Speed	3575 rpm
Service Factor	1.15	Phase	3
Efficiency	96.2 %	Power Factor	92.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	447TS	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	315	Opp Drive End Bearing Size	315
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

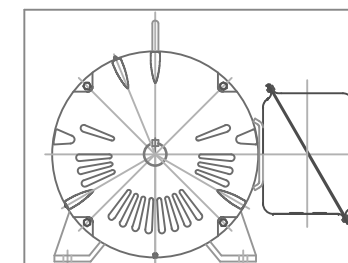
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	TS
Overall Length	39.00 in	Frame Length	26.77 in
Shaft Diameter	2.375 in	Shaft Extension	4.75 in
Assembly/Box Mounting	F1 Only		
Connection Drawing	A-EE7340-LN	Outline Drawing	XK2D1SS2-2677

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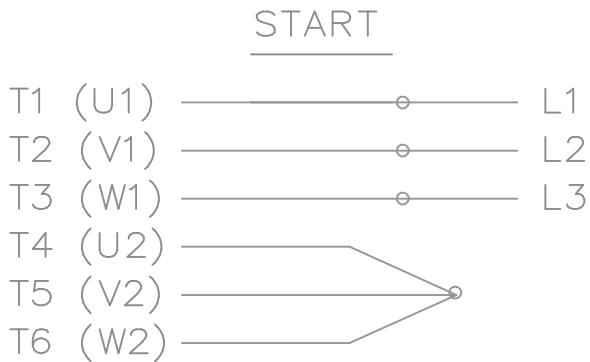


- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

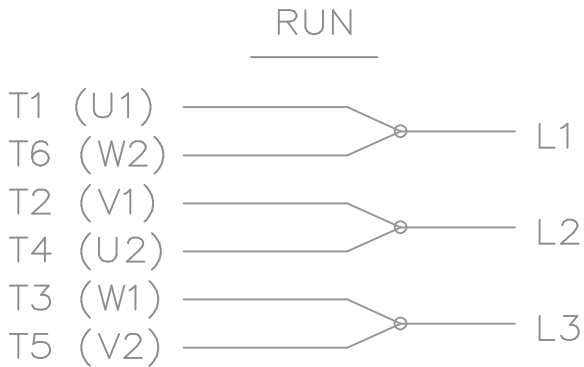
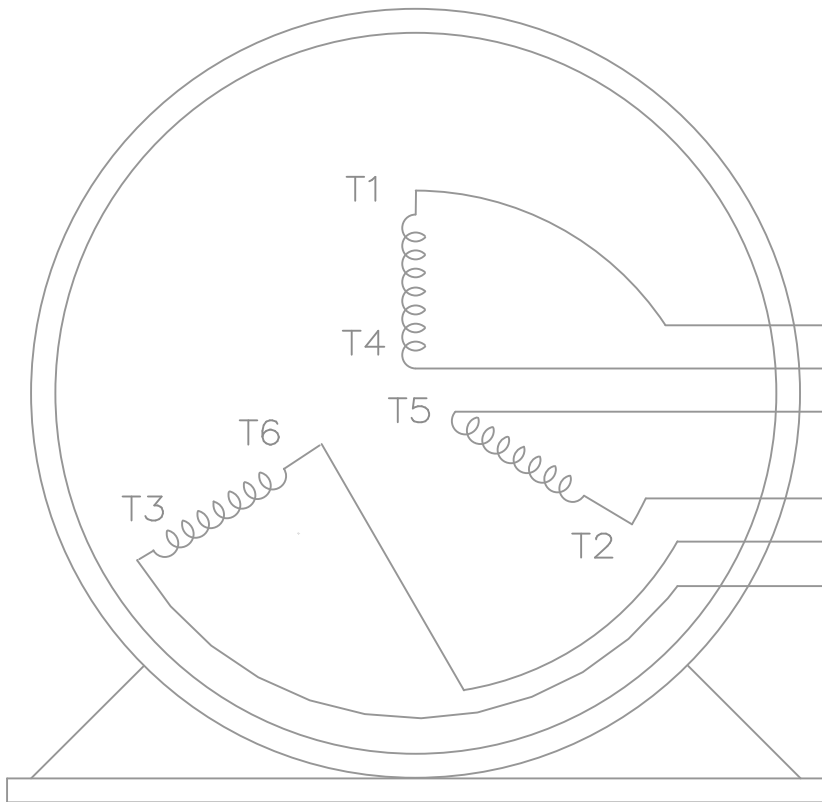


F2 VIEW

								TOLERANCES UNLESS SPECIFIED DEC. INCHES					DRAWN TJB 08-08-2001					
											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	JB	.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		xk2d1ss2	SIZE	DRAWING NO.	REV.	
										DIST		BY		B		XK2D1SS2		4
3177	449TS	44.00	28.50	24.46	25.00	20.00	20.00											



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	
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 A	DRAWING NO. EE7340-LN	PAGE OF 3
			DIST	WA-LB-SB				



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: XK2D1SS2-2677
WINDING: L4472013

CAT #: LM13825

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
300	224	3600	3575	447TS	DP	TDR	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	316	VVE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	96.2	3/4 LD EFF	96.2	1/2 LD EFF	96.2	GTD EFF		ELECT. TYPE	
F.L. PF	92.5	3/4 LD PF	92.5	1/2 LD PF	90.5	95.4		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
441 LB-FT	2,080	700 LB-FT 159%	1,090 LB-FT 247%	50

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	WATTSaver

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	0	0	0	0	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

LM13825



Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	50.0	91.5	161	236	316	366	401	2,080	
Torque (ft-lb)	0.00	110	220	330	441	508	552	700	
RPM	3600	3594	3587	3580	3575	3,569	3565	0	
Efficiency (%)		94.1	96.2	96.2	96.2	95.8	95.4		
P.F. (%)	8.0	81.5	90.5	92.5	92.5	92.0	91.5	29.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																																									
Speed (RPM)	0	1800	3440	3575	3600																																									
Current (Amps)	2,080	1,872	1,155	316	50.0																																									
Torque (ft-lb)	700	665	1,090	441	0.00																																									
Efficiency (%) P.F. (%) Current (Amps) <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>0%</td><td></td><td></td><td>50.0</td></tr><tr><td>20%</td><td>94.0</td><td>8.0</td><td>100.0</td></tr><tr><td>40%</td><td>95.0</td><td>88.0</td><td>200.0</td></tr><tr><td>60%</td><td>96.0</td><td>91.0</td><td>300.0</td></tr><tr><td>80%</td><td>96.2</td><td>92.5</td><td>400.0</td></tr><tr><td>100%</td><td>96.2</td><td>92.5</td><td>500.0</td></tr><tr><td>120%</td><td>96.0</td><td>92.0</td><td>600.0</td></tr><tr><td>125%</td><td>95.8</td><td>91.5</td><td>2080.0</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	0%			50.0	20%	94.0	8.0	100.0	40%	95.0	88.0	200.0	60%	96.0	91.0	300.0	80%	96.2	92.5	400.0	100%	96.2	92.5	500.0	120%	96.0	92.0	600.0	125%	95.8	91.5	2080.0					
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						Construction					TDR																																			
						Voltage					460V																																			
						Frequency					60Hz																																			
Design					A																																									
LR Code letter					G																																									
Service Factor					1.15																																									
Temp Rise @ FL					50 °C																																									
Duty					CONT																																									
Ambient					40 °C																																									
Elevation					1,000 feet																																									
Rotor/Shaft wk ²					0.00 Lb-Ft ²																																									
Ref Wdg					L4472013 NONE																																									
Sound Pressure @ 1M					999 dBA																																									
VFD Rating					NONE																																									
Outline Dwg					XK2D1SS2-2677																																									
Conn. Diag					A-EE7340-LN																																									
Additional Specifications:																																														
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EQUIV CKT (OHMS / PHASE)																																														
R1		R2		X1		X2		Xm																																						
0.0000		0.0000		0.0000		0.0000		0.0000																																						

Speed - Torque Curve

