

PRODUCT INFORMATION PACKET



Model No: LM13831

Catalog No: LM13831

General Purpose Motor, 400 & 350 HP, 3 Ph, 60 & 50 Hz, 460 & 380-415 V, 3600 & 3000 RPM,
449TS Frame, DP



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



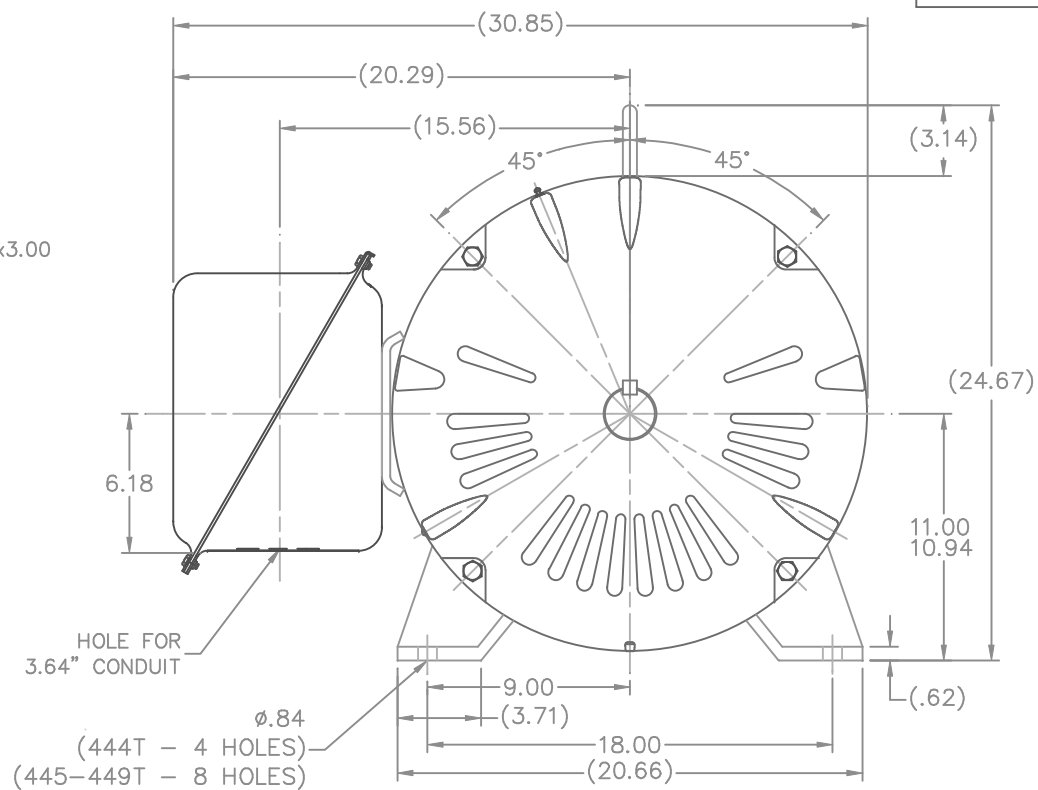
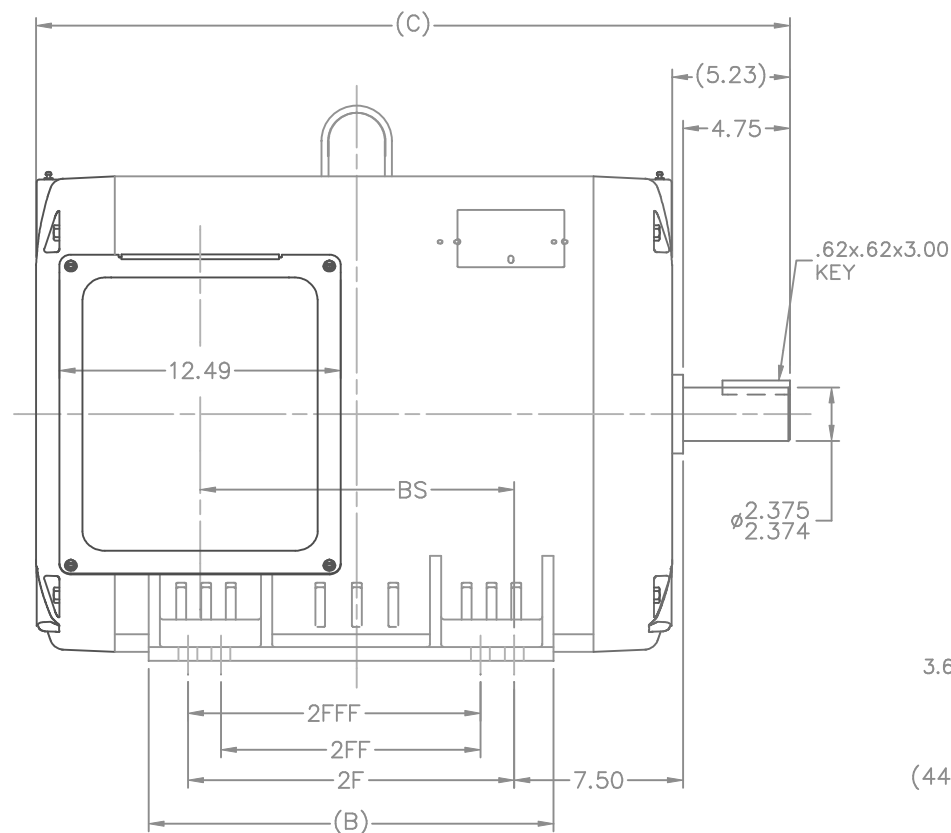


Nameplate Specifications

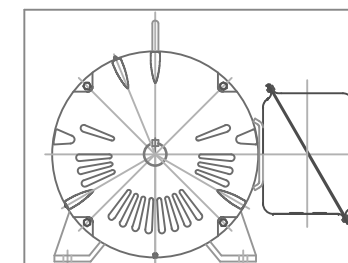
Phase	3	Output HP	400 & 350 Hp
Output KW	300.0 & 260.0 kW	Voltage	460 & 380-415 V
Speed	3575 & 2977 rpm	Service Factor	1.15 & 1.15
Frame	449TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.8 & 95.8 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	430 & 454-413 A	Power Factor	91.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
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
Resistance Main	.01 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	44.00 in
Frame Length	31.77 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1 Only
Connection Drawing	A-EE7340-LN	Outline Drawing	XK2D1SS2-3177

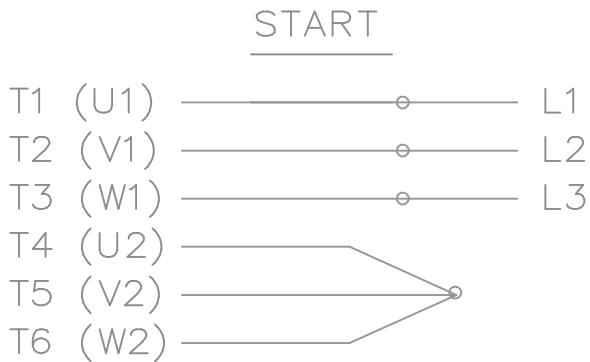


- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX
 SIDE OF MOTOR.

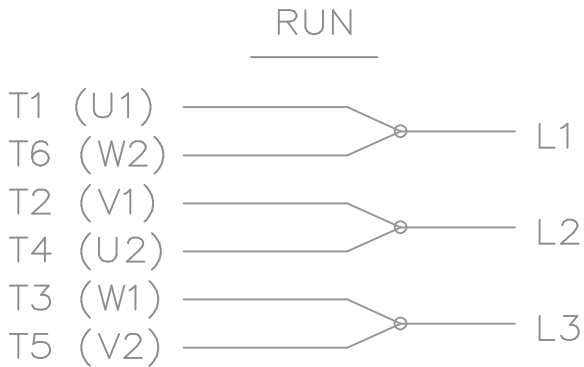
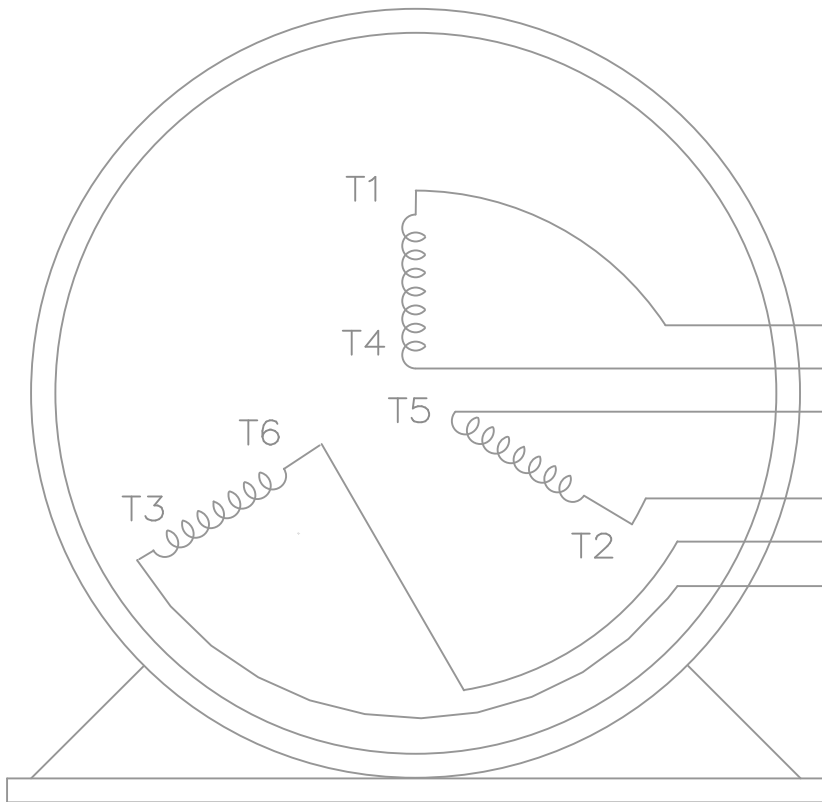


F2 VIEW

								TOLERANCES UNLESS SPECIFIED		DRAWN TJB 08-08-2001			
								DEC.	INCHES	CHK	ML 08-23-2001		
4	REVISED FROM 4 TO 4-8 HOLES PER CN 37556	CTO	12-17-2001	TJB	.XX	±.1				APPD	HNH 08-30-2001		
3	ADDED DASHES 2677 & 3177 CN 29200-2314	CTO	03-22-03	JNH	.XX	±.03				SCALE	1=5.5		
2	ADDED DASH 2327 CN 29200-2238	NJS	02-22-02	DRS	.XXX	±.005				REF			
1	NEW DRAWING - REPLACES 3XSD134FSSK-1 MU38160	TJB	08-30-01	ML	.XXX	±.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					
								DIST	BY	CAD FILE	xk2d1ss2		
								SIZE	B	DRAWING NO.	XK2D1SS2		
								REV.	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	±'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: XK2D1SS2-3177
WINDING: L4492015

CAT #: LM13831

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
400	298	3600	3575	449TS	DP	TDR	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380-415	430&454-413	NYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	95.8	3/4 LD EFF	96.2	1/2 LD EFF	96.2	GTD EFF		ELECT. TYPE	
F.L. PF	91.5	3/4 LD PF	91.0	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)
588 LB-FT	2,900	1,125 LB-FT 191%	1,550 LB-FT 264%	75

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
0.009	0.004	0.066	0.052	4.077	0.080	ODE

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

LM13831



Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	65.0	122	217	320	430	492	538	2,900	
Torque (ft-lb)	0.00	146	293	440	588	677	736	1,125	
RPM	3600	3595	3588	3580	3575	3,570	3567	0	
Efficiency (%)		94.5	96.2	96.2	95.8	95.8	95.4		
P.F. (%)	6.5	81.0	89.5	91.0	91.5	91.5	91.0	29.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block								
Speed (RPM)	0	1800	3550	3575	3600	HP	400.0							
Current (Amps)	2,900	2,650	1,950	430	65.0	Sync. RPM	3600							
Torque (ft-lb)	1,125	1,000	1,550	588	0.00	Frame	449							
Efficiency (%) P.F. (%) Current (Amps) Y-axis: Efficiency (%) 30.0 to 100.0, P.F. (%) 30.0 to 100.0, Current (Amps) 0.0 to 600.0 X-axis: LOAD 0% to 140%						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	75	° C						
						Duty	CONT							
						Ambient	40	° C						
						Elevation	1,000	feet						
						Rotor/Shaft wk ²	0.00	Lb-Ft ²						
						Ref Wdg	L4492015	NONE						
						Sound Pressure @ 1M	999	dBA						
						VFD Rating	NONE							
						Outline Dwg	XK2D1SS2-3177							
						Conn. Diag	A-EE7340-LN							
Additional Specifications:														
						EQUIV CKT (OHMS / PHASE)								
						R1	R2	X1	X2	Xm				
						0.0090	0.0040	0.0660	0.0520	4.0770				

Speed - Torque Curve

