

PRODUCT INFORMATION PACKET



Model No: LM13709
Catalog No: LM13709
General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380-415 V, 3600 & 3000 RPM,
445TS Frame, TEFC



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



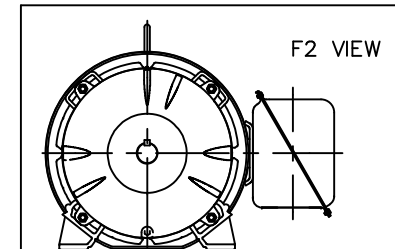
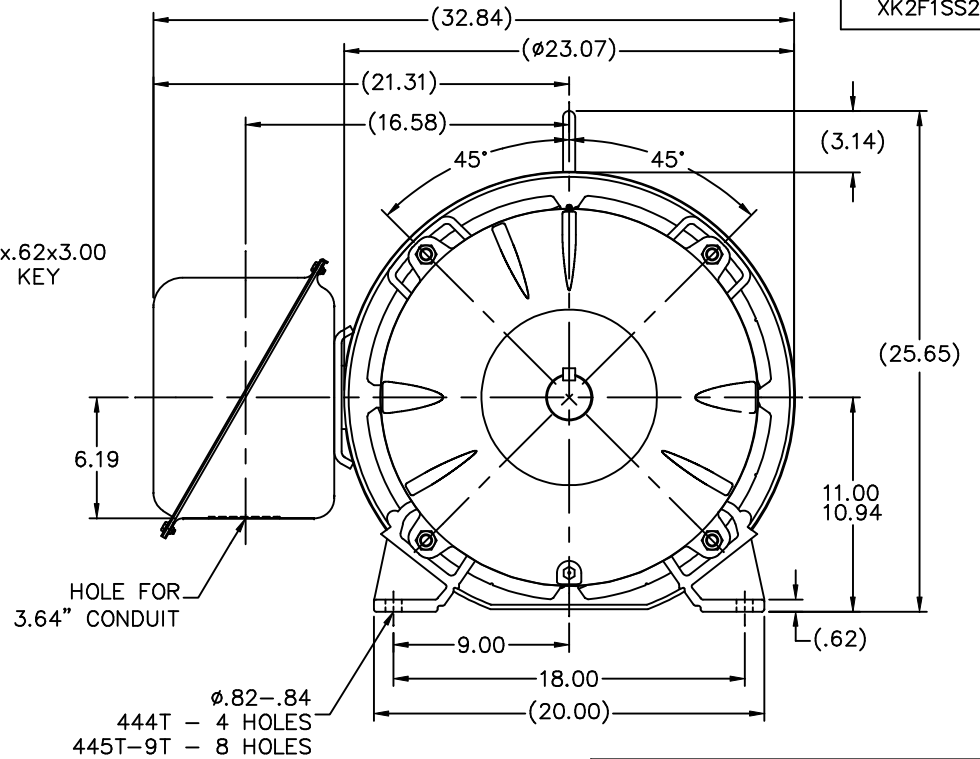
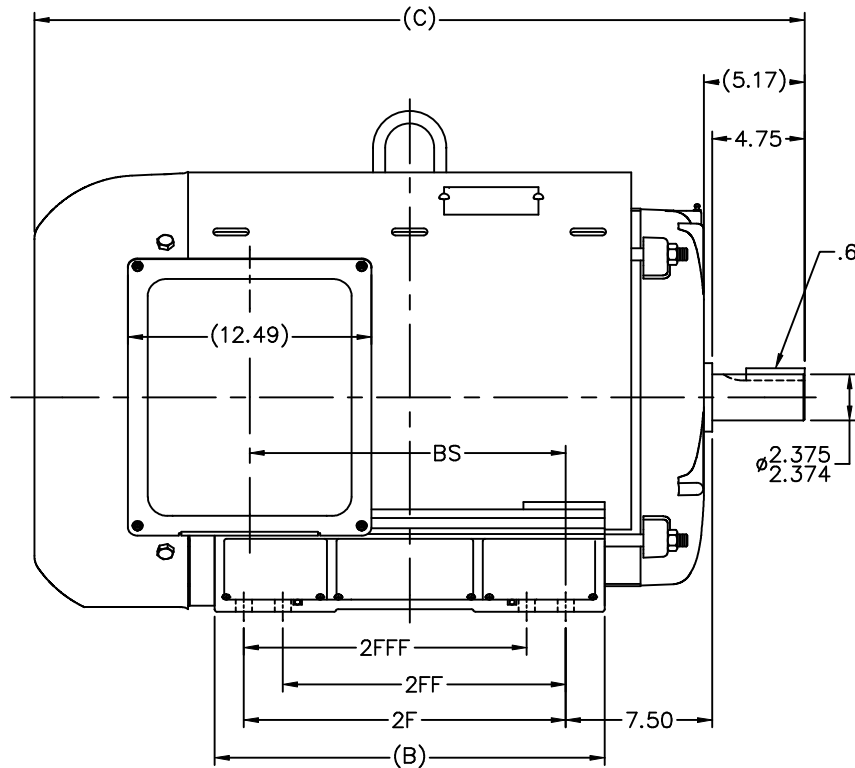


Nameplate Specifications

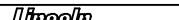
Phase	3	Output HP	200 & 150 Hp
Output KW	149.0 & 112.0 kW	Voltage	460 & 380-415 V
Speed	3575 & 2975 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	211 & 192-175 A	Power Factor	93
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	315	Opp Drive End Bearing Size	315
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

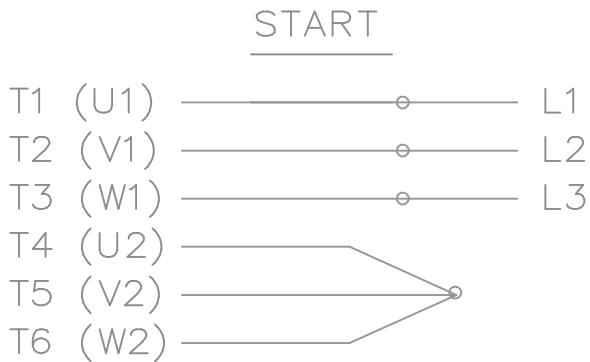
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.0207 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	39.49 in
Frame Length	23.17 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1 Only
Outline Drawing	XK2F1SS2-2317	Connection Drawing	A-EE7340-LN

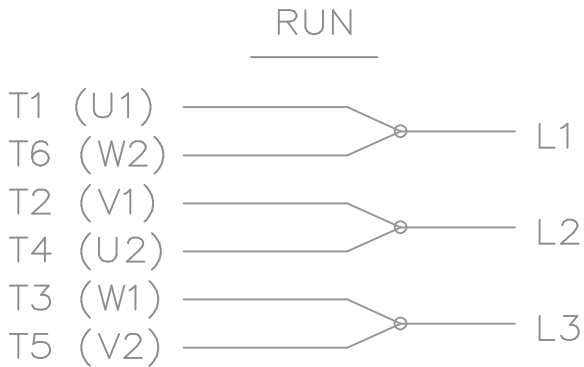
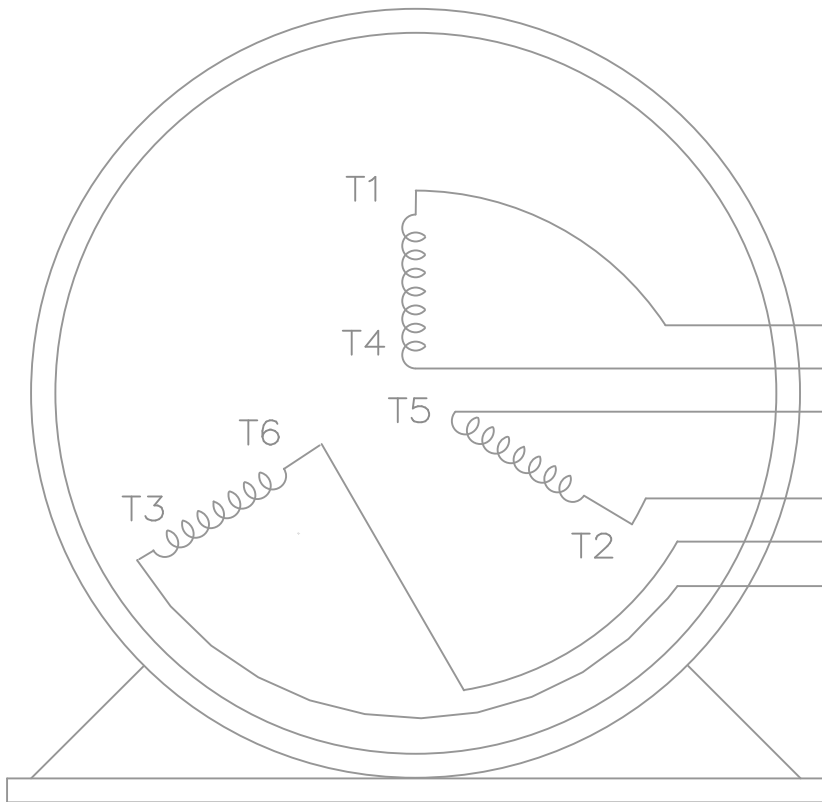


- NOTES:
 1. CONDUIT BOX CAN BE ROTATD IN 90° STEPS.
 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

									TOLERANCES UNLESS SPECIFIED				DRAWN HLB 09-04-2001			
									DEC. INCHES				CHK DRS 09-05-2001			
									.X ±.1				APPD TB 09-05-2001			
2117	444TS	37.49		18.00	14.50			14.20	3	ADDED DRAIN PLUG PER BRACKET CHANGE CN 37358	MSG 05-10-2004	ML	.XX ±.03	TITLE OUTLINE NEMA MOTORS		
2317	445TS	39.49		20.00	16.50	14.50	14.50	16.20	2	REVISED 2FF & 2FFF DIMENSIONS PER CN 29200-2093	MSG 10-30-2001		.XXX ±.005	440TS TEFC UE		
2667	447TS	42.99		23.50	20.00	16.50	16.50	19.70	1	NEW DRAWING - MU38667	HLB 09-05-2001		.XXXX ±.0005	MAT'L		
3167	449TS	47.99		28.50	25.00	20.00	20.00	23.95	NO.	REVISION	BY & DATE	CHK	ANG ±7°30"	FINISH		
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 XK2F1SS2		SIZE B		DRAWING NO. PAGE OF REV.	
DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS	DIST BY				XK2F1SS2		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	
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: XK2F1SS2-2317
WINDING: L4452001

CAT #: LM13709

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	3600	3573	445TS	TEFC	TFR	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380-415	212&193-177	NYE 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	92.5	3/4 LD PF	92.0	1/2 LD PF	90.5	94.5		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
294 LB-FT	1,325	375 LB-FT 128%	700 LB-FT 238%	85

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
0.017	0.009	0.158	0.095	8.435	0.080	ODE

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

DATE: 9/11/2018	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 9/11/2018

LM13709



Data @ 460 V

Motor Load Data

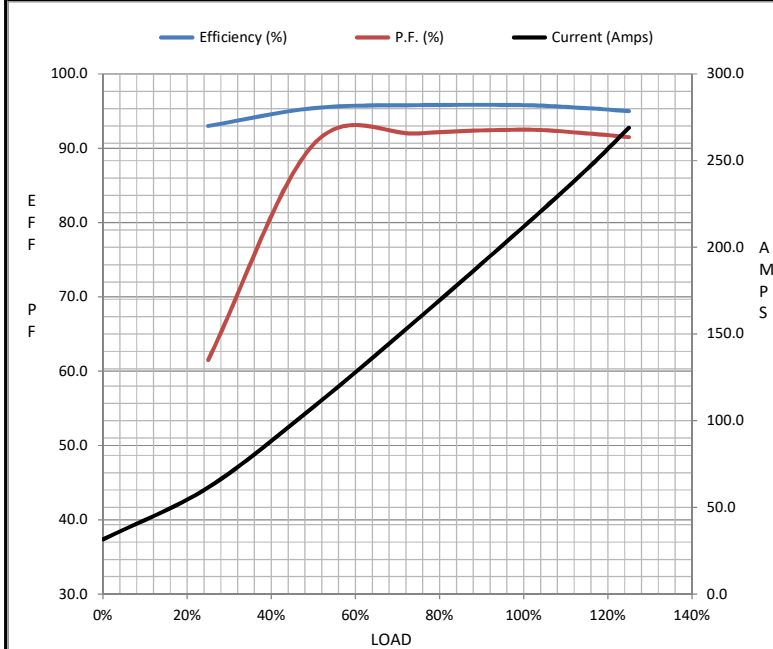
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	31.5	61.5	108	159	212	245	269	1,325	
Torque (ft-lb)	0.00	73.0	146	220	294	338	368	375	
RPM	3600	3593	3587	3580	3573	3,570	3565	0	
Efficiency (%)		93.0	95.4	95.8	95.8	95.4	95.0		
P.F. (%)	9.5	61.5	90.5	92.0	92.5	92.0	91.5	24.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3573	3600
Current (Amps)	1,325	1,200	875	212	31.5
Torque (ft-lb)	375	325	700	294	0.00

Information Block

HP	200.0			
Sync. RPM	3600			
Frame	445			
Enclosure	TEFC			
Construction	TFR			
Voltage	460#380-415	V		
Frequency	60	Hz		
Design	A			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	85	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	L4452001	NONE		
Sound Pressure @ 1M	999	dBA		
VFD Rating	NONE			
Outline Dwg	XK2F1SS2-2317			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0170	0.0090	0.1580	0.0950	8.4350



Speed - Torque Curve

