

PRODUCT INFORMATION PACKET



Model No: LM13730

Catalog No: LM13730

General Purpose Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380-415 V, 3600 & 3000 RPM,
444TSC Frame, TEFC



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Nameplate Specifications

Phase	3	Output HP	125 & 100 Hp
Output KW	93.0 & 75.0 kW	Voltage	460 & 380-415 V
Speed	3575 & 2976 rpm	Service Factor	1.15 & 1.15
Frame	444TSC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	133 & 128-117 A	Power Factor	94
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	.0329 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	37.74 in
Frame Length	21.17 in	Shaft Diameter	2.375 in
Shaft Extension	4.5 in	Assembly/Box Mounting	F1 Only
Connection Drawing	A-EE7340-LN	Outline Drawing	XK2F1SC2-2117



DASH	FRAME	B	C	AG	2F	2FF	BS
2117	444TS	18.00	37.79	33.29	14.50	- - -	14.30
2317	445TS	20.00	39.66	35.15	14.50	16.50	16.30
2667	447TS	23.50	43.29	38.79	16.50	20.00	19.80
3167	449TS	28.50	48.79	43.79	20.00	25.00	24.80

DRAWING REVISION G	REVISION BY KM	REV DATE/© DATE 12/29/2022
REQUEST NUMBER CR-0013106	APPROVED BY MJ	DATE 12/29/2022
REQUEST NUMBER DESCRIPTION		
Fan guard Updated		
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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7° 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°

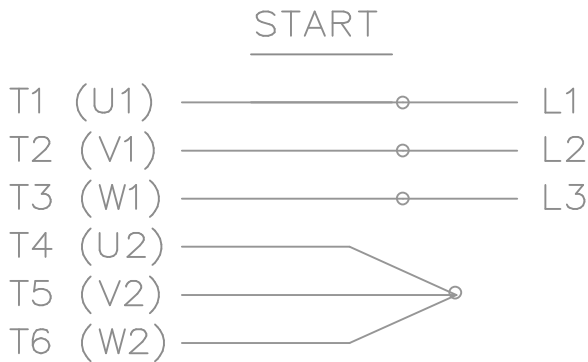
CORNER FILLETS: R.02 [.5]

MACHINED SURFACES: 200 / INCH 5.1 / mm

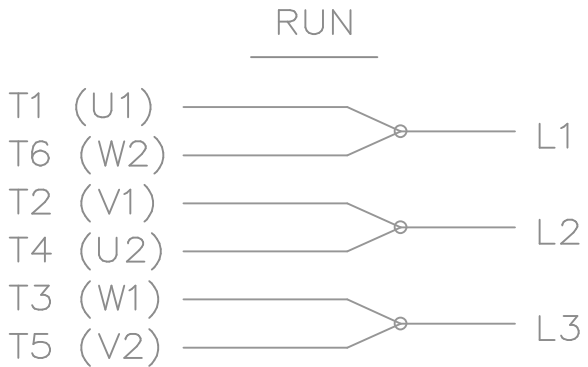
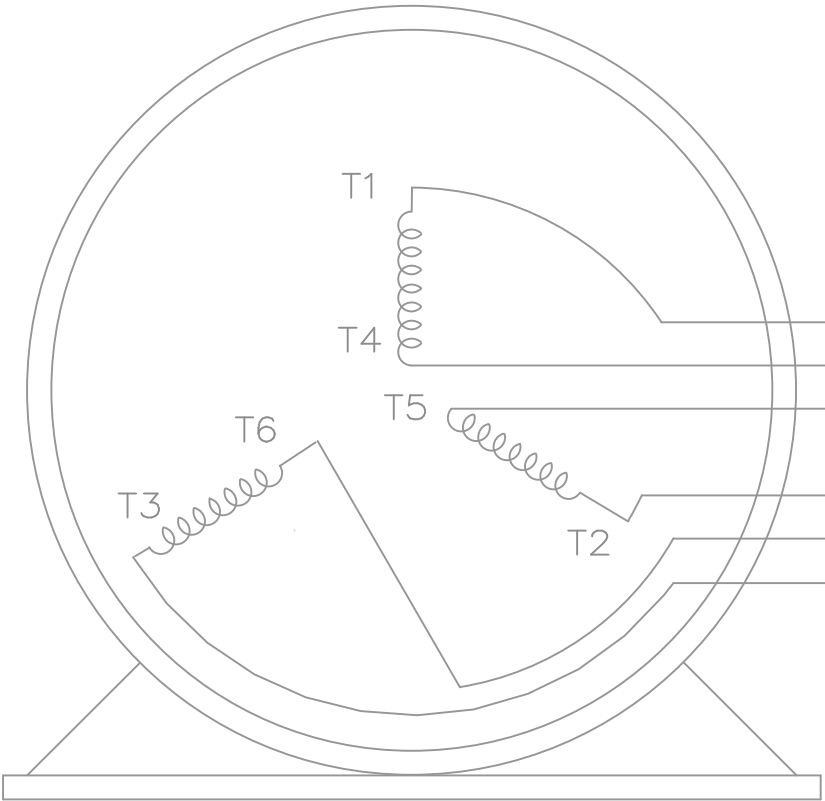
mm DIMENSIONS IN [BRACKETS]

ARE FOR REFERENCE ONLY

DRAWN BY TJB		 Regal Beloit America, Inc.	
DATE 10-26-2001			
APPROVED BY HNH		DESCRIPTION OUTLINE 440TS FR. - TEFC UE - C'FACE	
DATE 10-26-2004			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION 	SIZE B	DRAWING NUMBER XK2F1SC2	SHEET 1 OF 1



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



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: XK2F1SC2-2117
WINDING: L4442001

CAT #: LM13730

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	3600	3575	444TSC	TEFC	TFR	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380-415	133&128-117	VVE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	95.0	1/2 LD EFF	94.1	GTD EFF	ELECT. TYPE
F.L. PF	94.0	3/4 LD PF	92.5	1/2 LD PF	90.0	94.1	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
184 LB-FT	875	230 LB-FT 125%	485 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
C-FACE	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
0.027	0.014	0.245	0.134	11.691	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

Date: 9/11/2018

Data Sheet

LM13730



Data @ 460 V

Motor Load Data

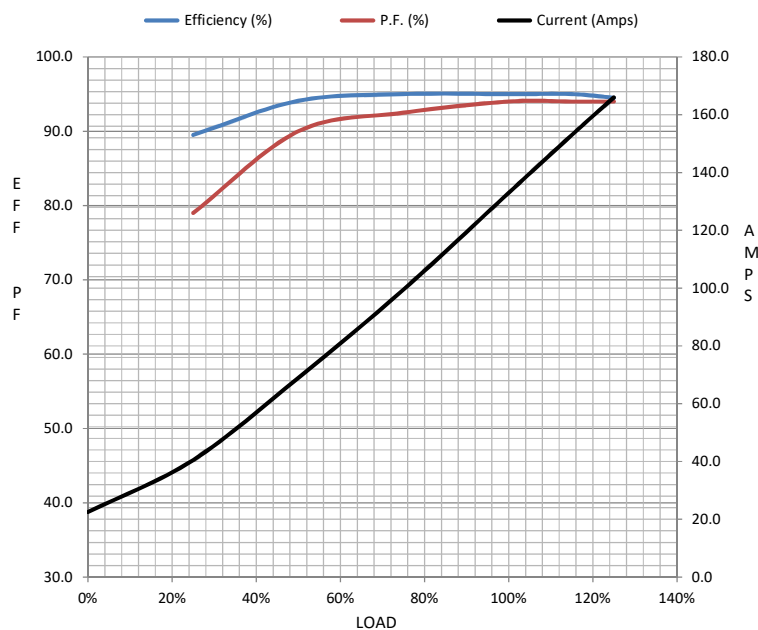
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	22.5	40.5	69.0	99.5	133	153	166	875	
Torque (ft-lb)	0.00	45.5	91.5	137	184	211	230	230	
RPM	3600	3595	3588	3582	3575	3,570	3568	0	
Efficiency (%)		89.5	94.1	95.0	95.0	95.0	94.5		
P.F. (%)	11.5	79.0	90.0	92.5	94.0	94.0	94.0	22.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3575	3600
Current (Amps)	875	790	570	133	22.5
Torque (ft-lb)	230	205	485	184	0.00

Information Block

HP	125.0			
Sync. RPM	3600			
Frame	444			
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	75	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	L4442001	NONE		
Sound Pressure @ 1M	999	dBA		
VFD Rating	NONE			
Outline Dwg	XK2F1SC2-2117			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0270	0.0140	0.2450	0.1340	11.6910



Speed - Torque Curve

