

PRODUCT INFORMATION PACKET



Model No: LM16744

Catalog No: LM16744

General Purpose Motor, 3 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 380-415 V, 1200 & 1000 RPM,
213TC Frame, TEFC



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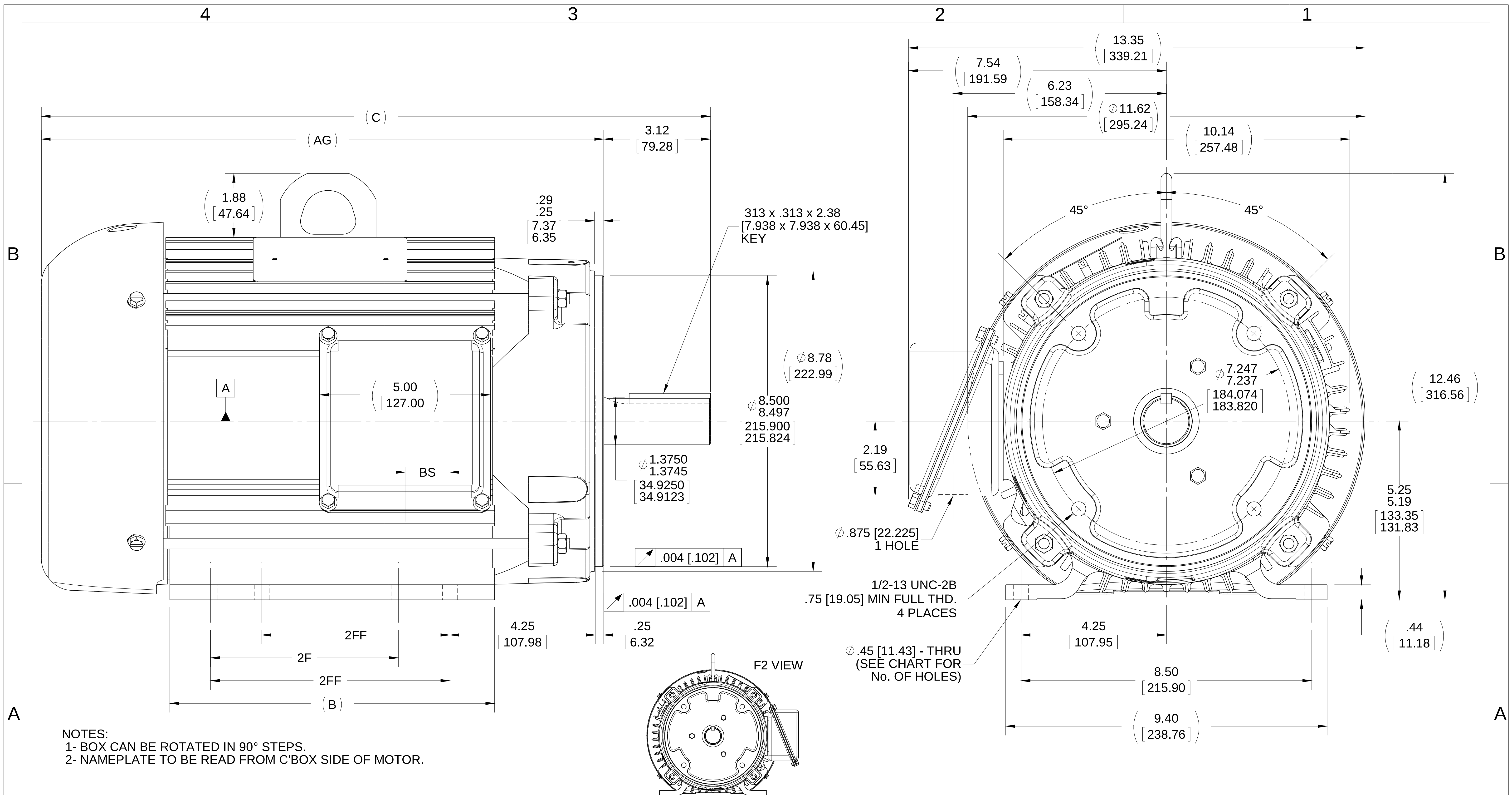


Nameplate Specifications

Phase	3	Output HP	3 & 3 Hp
Output KW	2.2 & 2.2 kW	Voltage	230/460 & 380-415 V
Speed	1170 & 975 rpm	Service Factor	1.25 & 1.15
Frame	213TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 87.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	8.8/4.4 & 5.5-5 A	Power Factor	70
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	208	Opp Drive End Bearing Size	206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

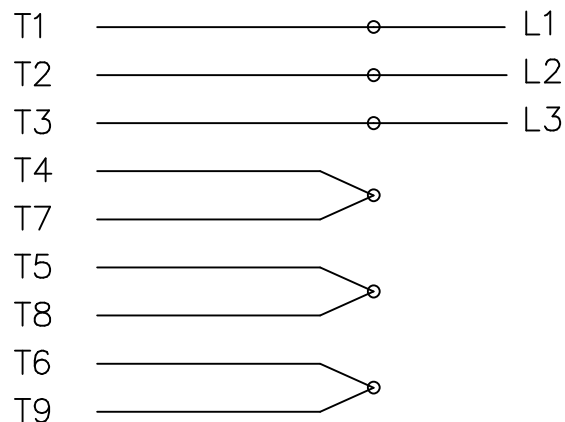
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	2.785 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	19.57 in
Frame Length	9.50 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308-LN	Outline Drawing	B-SS330102LN-950



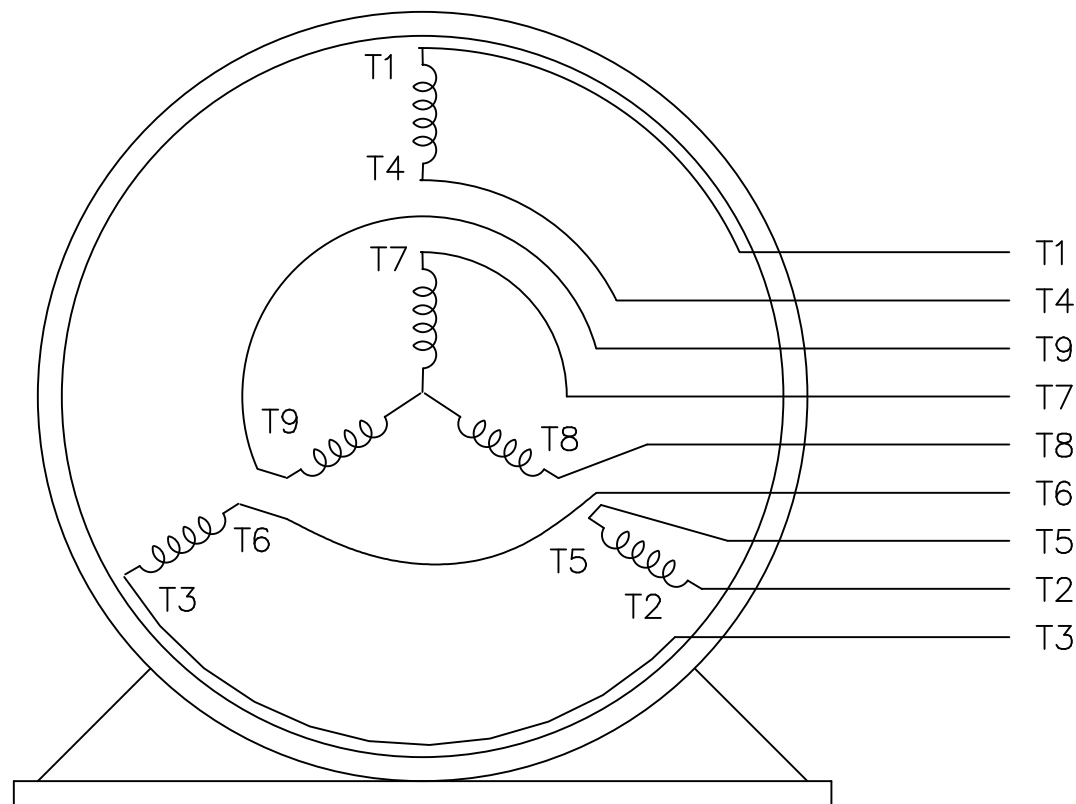
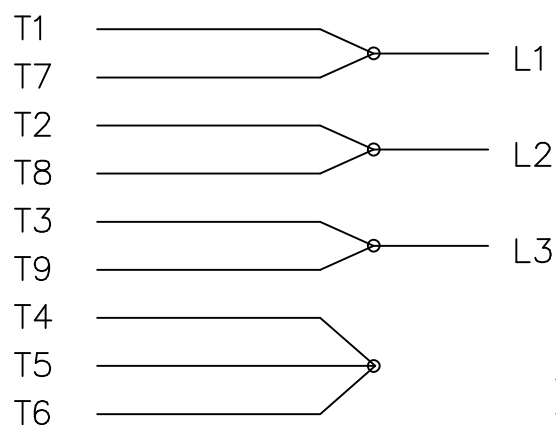
									DRAWING REVISION F			REVISION BY JHA			DATE 04-14-2015			TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ±0.1 [±2.5] ±7" 30" ±0.03 [±0.76] ±0.005 [±0.127] ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] MACHINED SURFACES: 200 INCH mm mm SHOWN IN [BRACKETS]					DRAWN BY MJK			REGAL Regal Beloit America, Inc. OUTLINE 210TC FR - ALUM FR - TEFC																																																						
									ECO ECO-0073312			APPROVED BY DJK			DATE 04-14-2015								DATE 08-30-2004													DESCRIPTION																																												
									ECO DESCRIPTION						APPROVED BY JPL								DATE 09-02-2004													REFERENCE			MATERIAL			PROCESS/FINISH																																						
									UPDATED TO CURRENT STADNARDS			COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.											THIRD ANGLE PROJECTION																SIZE B	DRAWING NUMBER SS330102LN					SHEET 1 OF 1																																			
DASH FRAME B C AG 2F 2FF BS No. OF MTG HOLES																																																																																
800									213TC									8.12 [206.25]									18.07 [458.98]									14.95 [379.73]									5.50 [139.70]									---									1.33 [33.76]									4								
950									213/5TC									9.62 [244.35]									19.57 [497.08]									16.45 [417.83]									5.50 [139.70]									7.00 [177.80]									1.33 [33.76]									8								
1050									215TC									10.62 [269.75]									20.57 [522.48]									17.45 [443.23]									7.00 [177.80]									8.00 [203.20]									1.33 [33.76]									8								
4																		3																		2																		1																										

THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 WHITE
L2 RED
L3 BLACK

				TOLERANCES UNLESS SPECIFIED			DRAWN BLR 06/11/1999			
				DEC.	INCHES		CHK ML 06/18/1999			
				.X	±.1		APPD GK 06/18/1999			
3	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XX	±.02	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR	SCALE 1=1			
2	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR 08/09/1999	GK	.XXX	±.005		REF			
1	NEW DRAWING	BLR 06/18/1999	GK	.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 EE7308LN		SIZE	DRAWING NO.	PAGE OF	REV.
			DIST WP				A	EE7308-LN		3



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308-LN

CAT #: LM16744

OUTLINE: B-SS330102LN-950

WINDING: K213660

R14 6

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	1200	1170	213TC	TEFC	TFL	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#380-415	8.8/4.4&5.5-5	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	89.5	1/2 LD EFF	87.5	GTD EFF	ELECT. TYPE
F.L. PF	70.0	3/4 LD PF	62.0	1/2 LD PF	49.5	88.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
13.5 LB-FT	32.0	34.0 LB-FT 252%	47.5 LB-FT 352%	35

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
55 dBA	64 dBA		0.80 LB-FT²	90 LB-FT²	25 SEC.	2	160 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	WATTS AVER

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM
208 206						

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
1.627	1.589	6.763	7.785	95.063	0.150	ODE

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

LM16744



Data @ 460 V

Motor Load Data

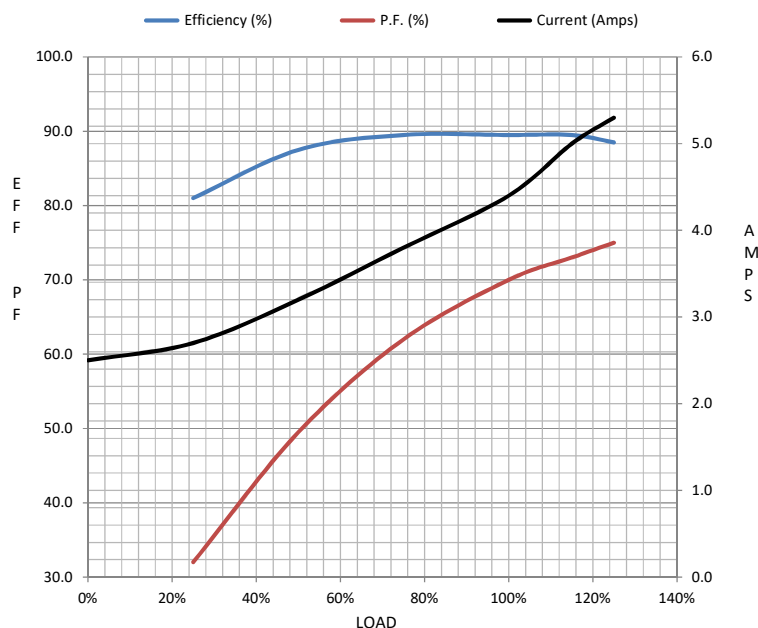
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.50	2.70	3.2	3.8	4.4	5.0	5.3	32.0	
Torque (ft-lb)	0.00	3.3	6.7	10.0	13.5	15.5	17.0	34.0	
RPM	1200	1194	1186	1180	1170	1,168	1166	0	
Efficiency (%)		81.0	87.5	89.5	89.5	89.5	88.5		
P.F. (%)	6.0	32.0	49.5	62.0	70.0	73.0	75.0	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1025	1170	1200
Current (Amps)	32.0	28.0	20.0	4.4	2.50
Torque (ft-lb)	34.0	32.0	47.5	13.5	0.00

Information Block

HP	3.0			
Sync. RPM	1200			
Frame	213			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460#380-415	V		
Frequency	60	Hz		
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	35	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.80	Lb-Ft²		
Ref Wdg	K213660	R14		
Sound Pressure @ 1M	55	dBA		
VFD Rating	NONE			
Outline Dwg	B-SS330102LN-950			
Conn. Diag	A-EE7308-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.6270	1.5890	6.7630	7.7850	95.0630



Speed - Torque Curve

