

PRODUCT INFORMATION PACKET

Model No: LM22836

Catalog No: LM22836

Speed Ratio Motors, TEFC, 10 HP, 3 Ph, 60 Hz, 230/460 V, 1755 RPM, 215TC Frame



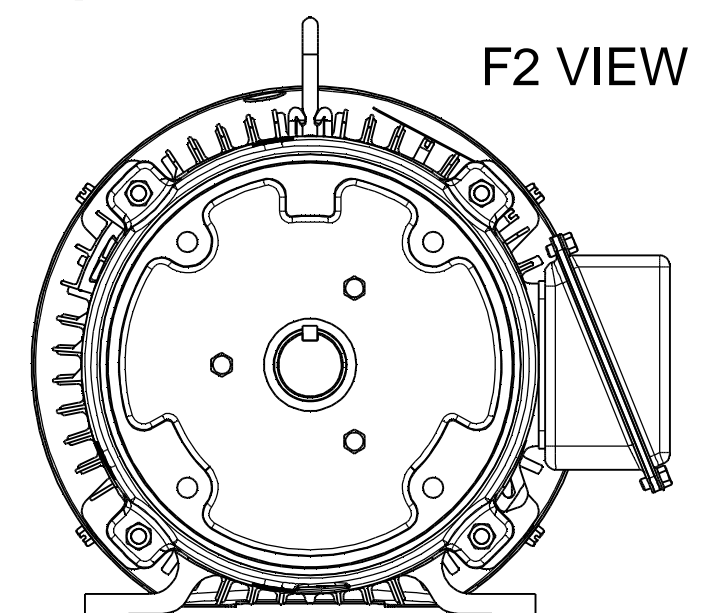
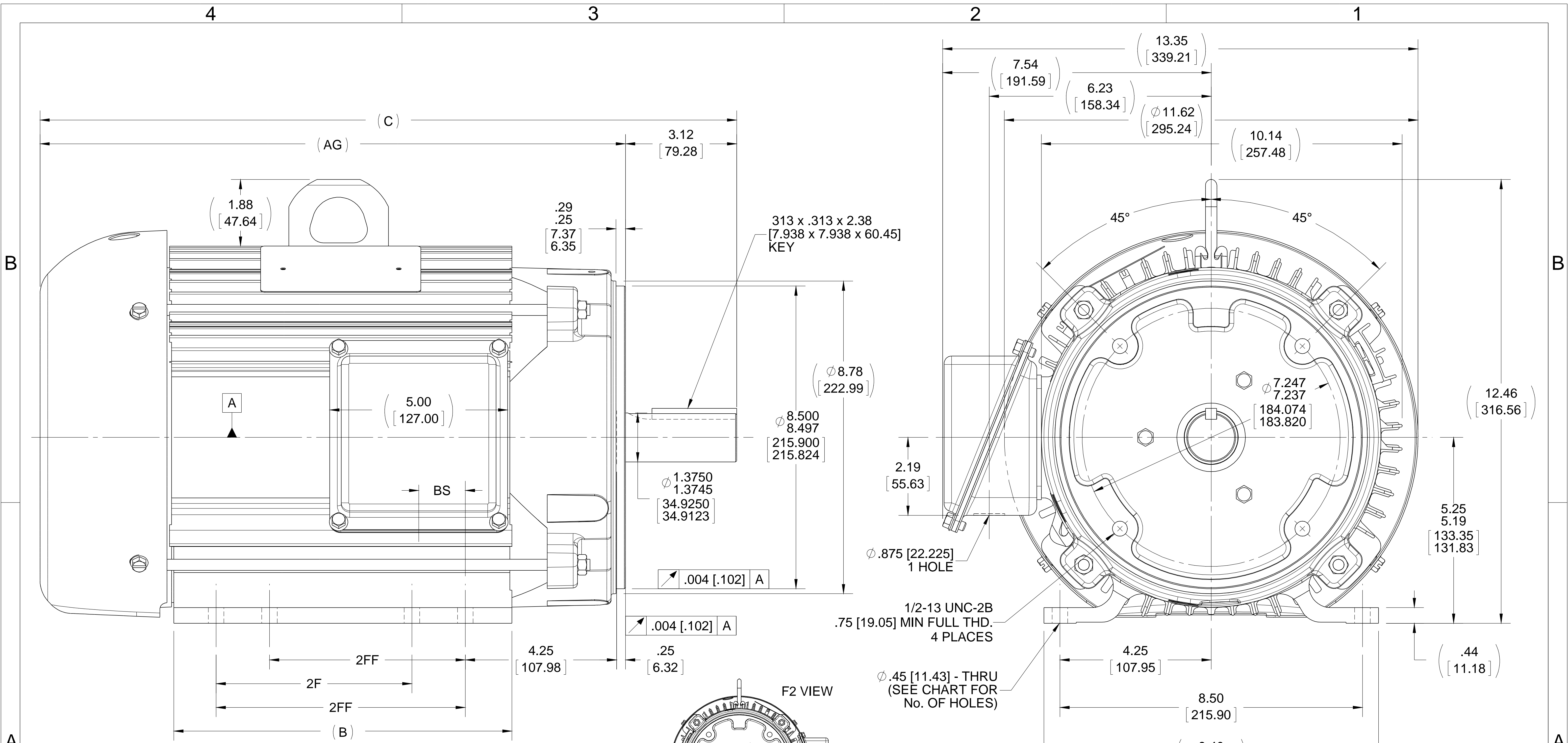
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Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	25.4/12.7 A	Speed	1755 rpm
Service Factor	1	Phase	3
Efficiency	90.2 %	Power Factor	81.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	G
Frame	215TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
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 Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	1.11 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	3.38 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 4:1		
Connection Drawing	A-EE7308T-LN	Outline Drawing	B-SS330102LN-950



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

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

DRAWING REVISION F
 ECO ECO-0073312
 ECO DESCRIPTION
 UPDATED TO CURRENT STADNARDS
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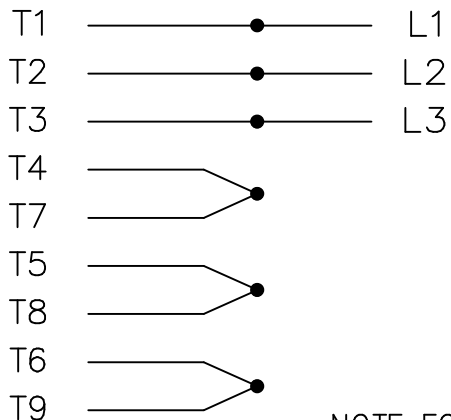
TOLERANCES UNLESS OTHERWISE SPECIFIED:
 DEC. INCH mm ANGLE
 .X ±0.1 [±2.5] ±7° 30"
 .XX ±0.03 [±0.76]
 .XXX ±0.005 [±0.127]
 .XXXX ±0.0005 [±0.0127]
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°
 CORNER FILLETS: R.02 [.51]
 MACHINED SURFACES: 200 INCH mm 5.1
 mm SHOWN IN [BRACKETS]

DRAWN BY MJK
 DATE 08-30-2004
 APPROVED BY JPL
 DATE 09-02-2004
 REFERENCE
 THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.
 DESCRIPTION
OUTLINE
 210TC FR - ALUM FR - TEFC
 MATERIAL PROCESS/FINISH
 SIZE B DRAWING NUMBER **SS330102LN** SHEET 1 OF 1

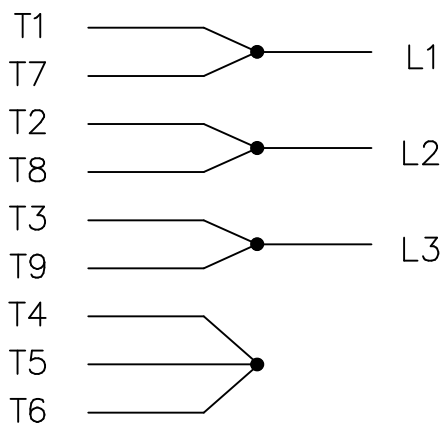
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

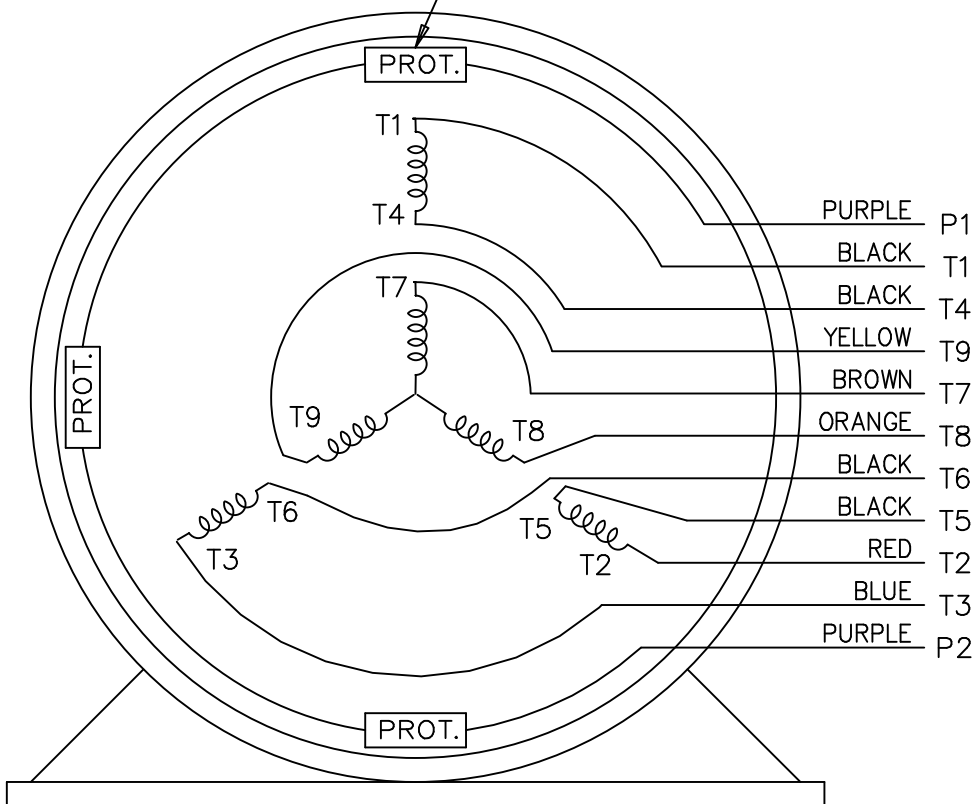


NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



THREMO-PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN BJK 07-16-2002			
				DEC.	INCHES		CHK DRS 07-18-2002			
				.X	±.1		APPD GK 07-18-2002			
				.XX	±.02		SCALE 1=1			
2	ADDED COLORS TO "T & P" LEADS	CN 40494	MSG 08-08-2006	ML	.XXX	±.005	TITLE CONNECTION DIAGRAM 3 PHASE - DUAL VOLTAGE MOTOR		REF	
1	NEW DRAWING		BJK 07-18-2002	DRS	.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 ee7308t_ln			SIZE	DRAWING NO. PAGE OF	REV.
				DIST LB				A	EE7308T-LN	2

P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T-LN
 OUTLINE: B-SS330102LN-950
 WINDING: K2154388

CAT #: LM22836

R2 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	1800	1755	215TC	TEFC	TFL	G	INC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	25.4/12.7	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	90.2	3/4 LD EFF	91.4	1/2 LD EFF	91.7	GTD EFF	88.5	ELECT. TYPE	SQ CAGE INV DUTY
F.L. PF	81.5	3/4 LD PF	77.5	1/2 LD PF	68.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
30.0 LB-FT	69.0	57.0 LB-FT 190%	73.0 LB-FT 243%	65

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA	0.90 LB-FT²	0 LB-FT²	0 SEC.	0	125 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	GRAY - LINCOLN

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
TSTATS (N/C)	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
0.71	0.511	2.471	3.493	53.96	0.080	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 4:1 INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	
	NONE	
	NONE PPR	

DATE: 2/14/2018	BRAKE: NONE	
	NONE NONE NONE	
	FT-LB: NA	
	VOLTAGE: NONE HZ:	
UL: V-INS, CONST, OVERHEAT PRT DEV UL REC		

Data Sheet

Date: 2/1/2018

LM22836



Data @ **460 V**

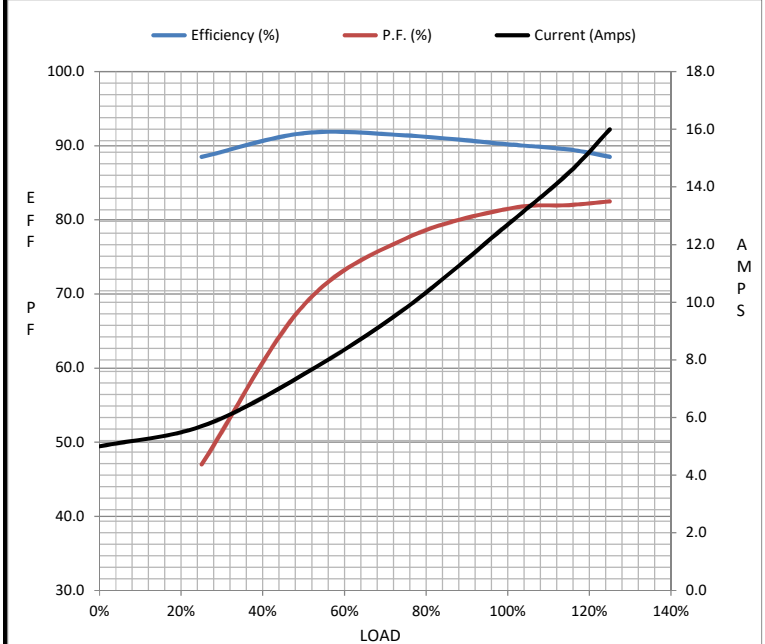
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	5.0	5.7	7.5	9.8	12.7	14.5	16.0	69.0
Torque (ft-lb)	0.00	7.5	14.8	22.2	30.0	34.5	37.5	57.0
RPM	1800	1790	1780	1770	1755	1.750	1740	0
Efficiency (%)		88.5	91.7	91.4	90.2	89.5	88.5	
P.F. (%)	5.0	47.0	68.5	77.5	81.5	82.0	82.5	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1625	1755	1800
Current (Amps)	69.0	62.0	41.0	12.7	5.0
Torque (ft-lb)	57.0	52.0	73.0	30.0	0.00

Information Block				
HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.0			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.90 Lb-Ft ²			
Ref Wdg	K2154388 R2			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 4:1			
Outline Dwg	B-SS330102LN-950			
Conn. Diag	A-EE7308T-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.7100	0.5110	2.4710	3.4930	53.9600



Speed - Torque Curve

