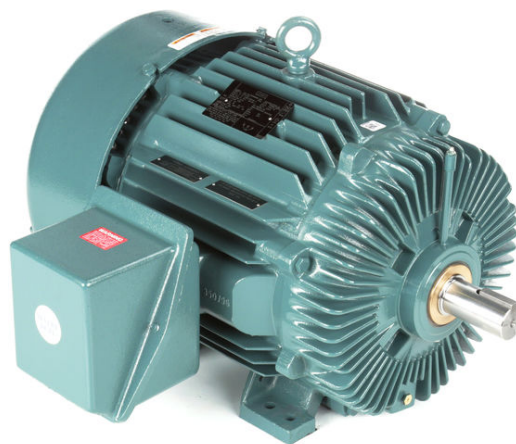


PRODUCT INFORMATION PACKET



Model No: 811654.00
Catalog No: 811654.00
20 HP Severe Duty Motor, 3 phase, 1200 RPM, 460 V, 286T Frame, TEFC
Severe Duty Motors



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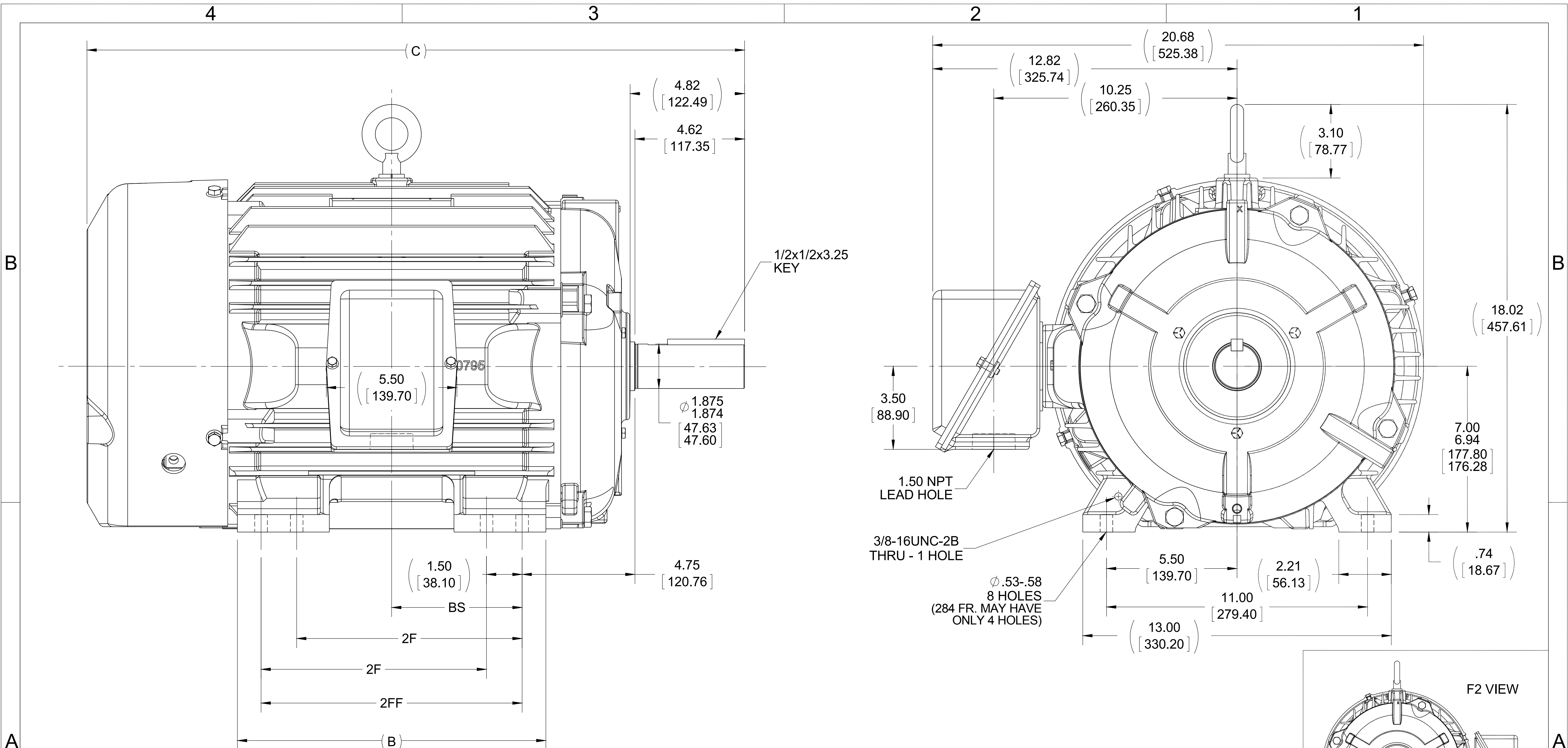
Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	460 V
Current	26.7 A	Speed	1175 rpm
Service Factor	1.15	Phase	3
Efficiency	92.1 %	Power Factor	76.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	286T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.408 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	27.71 in
Frame Length	14.25 in	Shaft Diameter	1.875 in
Shaft Extension	4.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300-LE	Outline Drawing	B-SS311057LE-1425

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- NOTES:
 1. CONDUIT BOX CAN BE ROTATED UP TO 270° FROM ITS ORIGINAL POSITION.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1275	284T	26.21	12.50	---	9.50	4.75
1425	284/286T	27.71	13.00	9.50	11.00	5.50
DASH	FRAME	C	B	2F	2FF	BS

DRAWING REVISION D	REVISION BY M.MCCALEB	DATE 08-06-2015
ECO ECO-0083034	APPROVED BY	DATE
ECO DESCRIPTION		
UPDATED TITLE BLOCK		
<small>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.</small>		

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.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 [0.51]
 MACHINED SURFACES: 125 INCH 3.2 mm

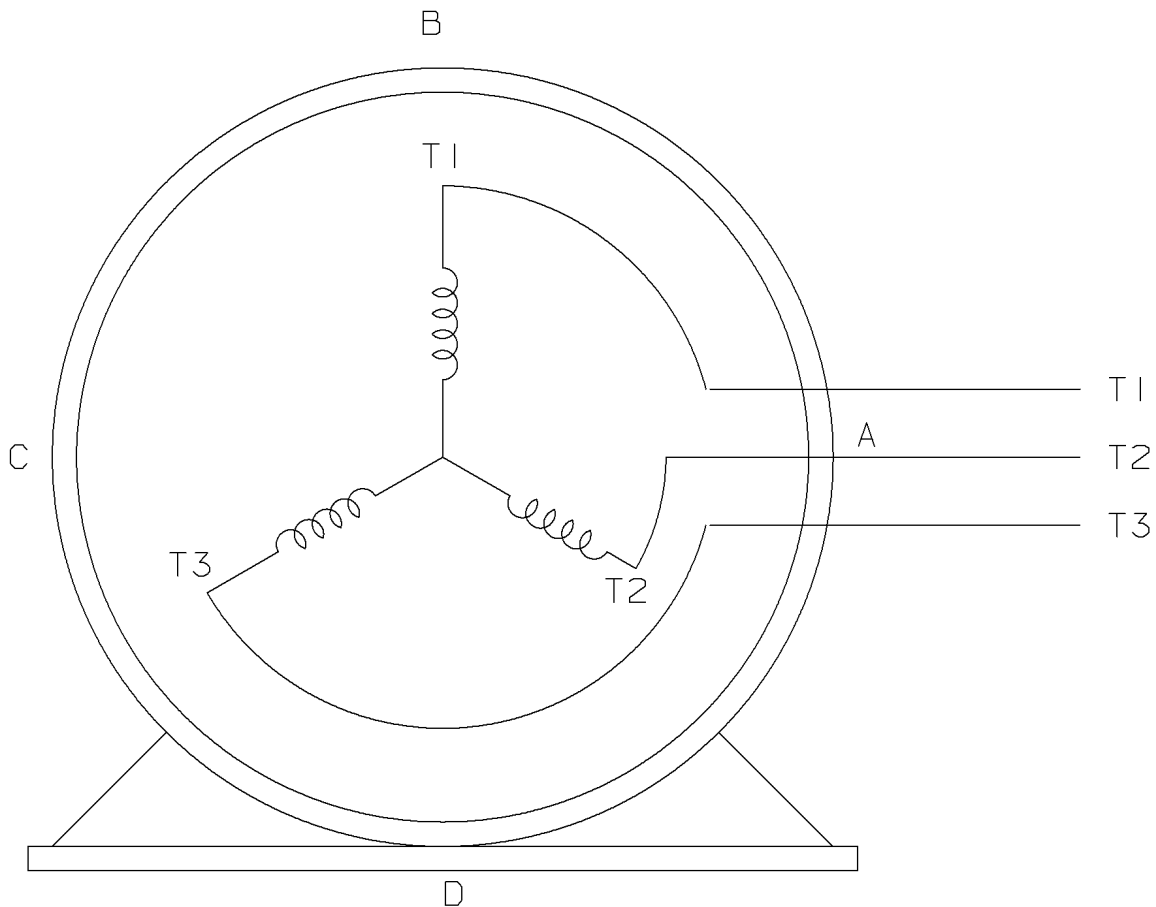
mm SHOWN IN [BRACKETS]

DRAWN BY RWR
DATE 08-17-2007
APPROVED BY DR
DATE 08-21-2007
REFERENCE
THIRD ANGLE PROJECTION

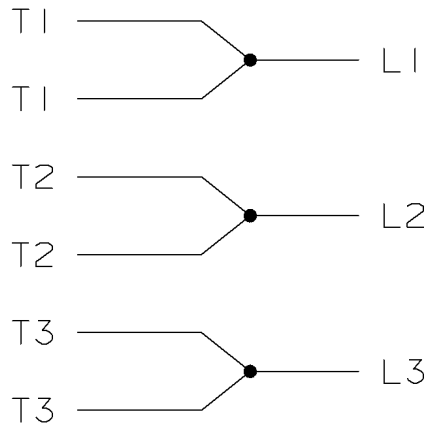
REGAL ™ Regal Beloit America, Inc.	
OUTLINE	
280T FR. - BB - STD - 12.50 LAM.	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS311057LE
	SHEET 1 OF 1

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS




IF MOTOR HAS
6 LEADS



A-9806 DECAL

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN MSG 05-22-2002			
				DEC.	TOLERANCE		CHK ML 05-22-2002			
				.X	± .1		APPD GK 05-22-2002			
				.XX	± .02		SCALE			
				.XXX	± .005		REF			
1	NEW DRAWING	MSG	05-22-2002	ML	.XXXX ± .0005	TITLE CONNECTION DIAGRAM SINGLE VOLT - 3Ø MOTOR	FMF			
NO.	REVISION	BY	DATE	CHK	ANG ± 7'30'		✓ SURFACE ROUGHNESS UNLESS SPECIFIED	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				PURCHASED		CAD FILE EE7300-LE	SHOP BOOK	SIZE	DRAWING NO.	REV.
				DIST WA - LB - WP - LM - BR - BY				A	EE7300-LE	I

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



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300-LE
 OUTLINE: B-SS311057LE-1425
 WINDING: 2866129

CAT #: 811654.00

NONE 10

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
20	14.9	1200	1175	286T	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	26.7	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	92.1	3/4 LD EFF	92.4	1/2 LD EFF	92.1	GTD EFF	ELECT. TYPE
F.L. PF	76.5	3/4 LD PF	70.5	1/2 LD PF	58.5	91.0	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
89.0 LB-FT	145	162 LB-FT 182%	220 LB-FT 247%	65

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
56 dBA	65 dBA	4.8 LB-FT²	350 LB-FT²	20 SEC.	2	550 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	UM SEVERE	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)

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)	CAST IRON
6311	6210						

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
0.275	0.241	1.249	1.277	19.724	0.080	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 2:1 INV. HP SPEED RANGE: NONE	
	ENCODER: NONE NONE NONE	
	NONE PPR	
	BRAKE: NONE NONE NONE	
	FT-LB: NA VOLTAGE: NONE HZ:	

DATE: 1/29/2018

UL: Y-(LEESON UL REC)

Data Sheet

Date: 1/29/2018

811654.00



Data @ **460 V**

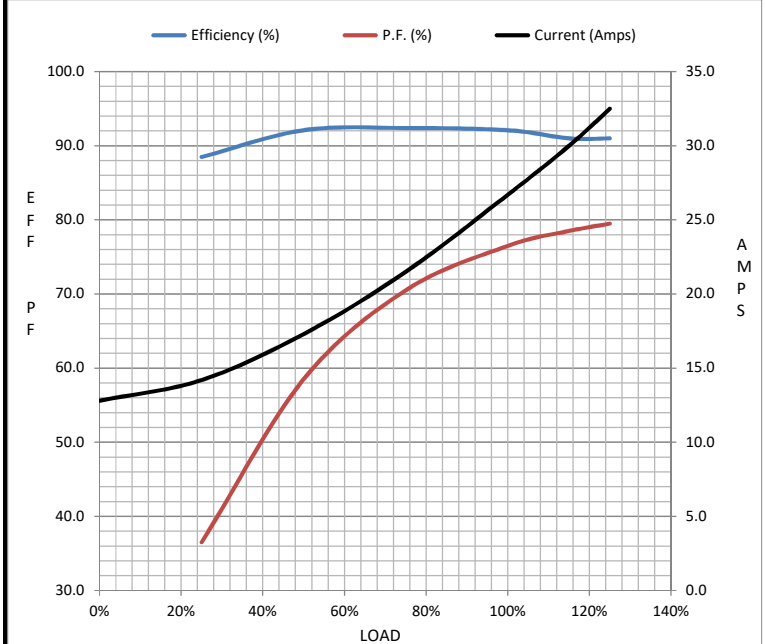
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	12.8	14.2	17.3	21.5	26.7	30.0	32.5	145
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	103	112	162
RPM	1200	1195	1188	1180	1175	1,170	1165	0
Efficiency (%)		88.5	92.1	92.4	92.1	91.0	91.0	
P.F. (%)	3.0	36.5	58.5	70.5	76.5	78.5	79.5	35.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1100	1175	1200
Current (Amps)	145	132	89.0	26.7	12.8
Torque (ft-lb)	162	140	220	89.0	0.00

Information Block				
HP	20.0			
Sync. RPM	1200			
Frame	286			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	4.8 Lb-Ft ²			
Ref Wdg	2866129 NONE			
Sound Pressure @ 1M	56 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS311057LE-1425			
Conn. Diag	A-EE7300-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2750	0.2410	1.2490	1.2770	19.7240



Speed - Torque Curve

