

PRODUCT INFORMATION PACKET



Model No: LM34119
Catalog No: LM34119
30 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 286T Frame, ODP
Special Voltage Motors



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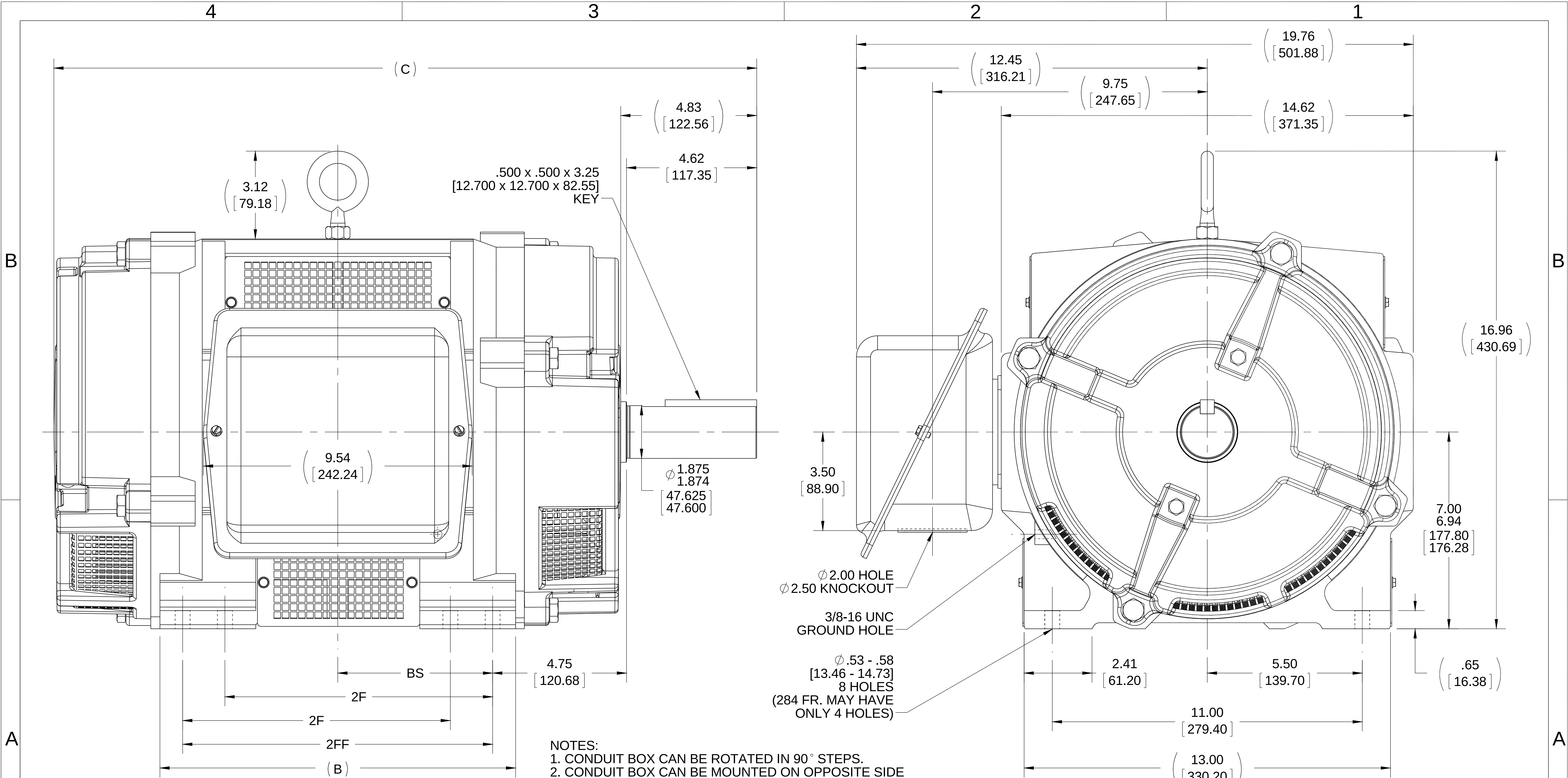
Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	575 V
Current	29.6 A	Speed	1775 rpm
Service Factor	1.25	Phase	3
Efficiency	94.1 %	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	286T	Enclosure	Drip Proof
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	23
Number of Speeds	1		

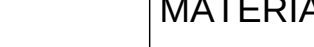
Technical Specifications

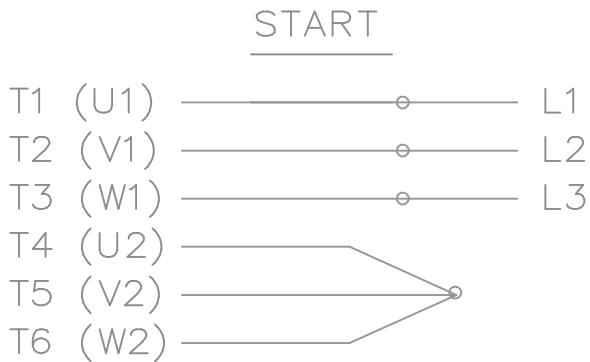
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.22 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	26.81 in
Frame Length	15.12 in	Shaft Diameter	1.875 in
Shaft Extension	4.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7340-LN	Outline Drawing	SS207936-1512

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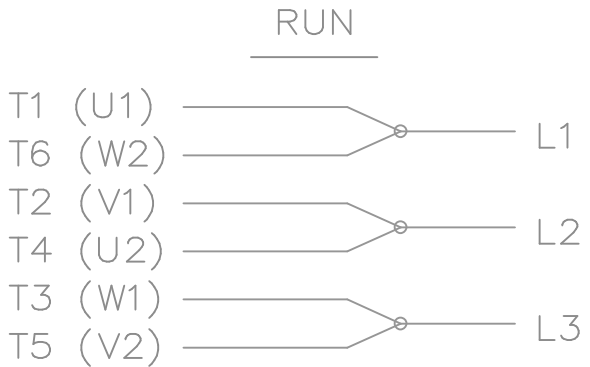
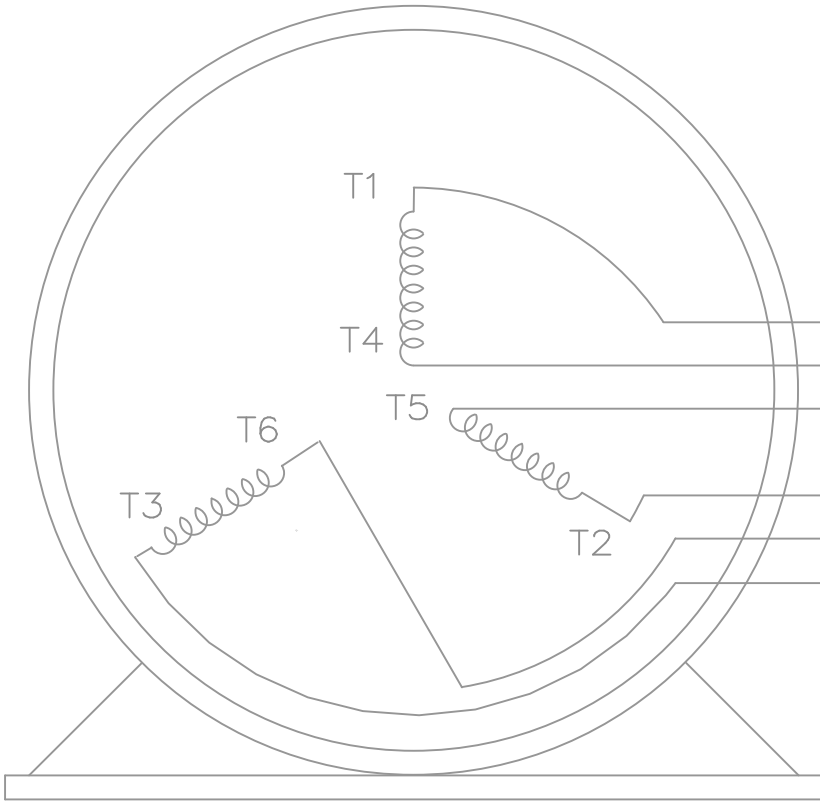


- NOTES:
- CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 - CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 - NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

							DRAWING REVISION C	REVISION BY J. OTTO	DATE 06-28-2016	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 [0.51] MACHINED SURFACES: 200 INCH 5.1 mm SHOWN IN [BRACKETS]	DRAWN BY RJW	 Regal Beloit America, Inc.				
DASH	FRAME	B	C	2F	2FF	BS	ECO ECO-0104805	APPROVED BY T. BROWN	DATE 06-29-2016		DATE 10-08-2007					
1275	284T	11.75 [298.45]	24.44 [620.78]	---	9.50 [241.30]	4.75 [120.65]	ECO DESCRIPTION					APPROVED BY BW	DESCRIPTION			
1325	284T/ 286T	12.62 [320.55]	24.94 [633.48]	9.50 [241.30]	11.00 [279.40]	5.50 [139.70]	UPDATED TITLE BLOCK					DATE 10-09-2007	OUTLINE 280T FR. - DR. PR. - CAST IRON			
1512	286T	14.50 [368.30]	26.81 [680.97]	11.00 [279.40]	---	6.44 [163.58]	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.					REFERENCE	MATERIAL	PROCESS/FINISH		
												THIRD ANGLE PROJECTION		SIZE B	DRAWING NUMBER SS207936	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	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 ee7340_In		SIZE	DRAWING NO.	PAGE OF	REV.
			DIST WA-LB-SB				A	EE7340-LN		3



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: B-SS207936-1512
WINDING: K2864304

CAT #: LM34119

NONE 7

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	1800	1772	286T	DP	TDN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	29.6	VYE START DELTA RU	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.6	GTD EFF	ELECT. TYPE
F.L. PF	81.0	3/4 LD PF	76.5	1/2 LD PF	66.0	93.6	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
89.0 LB-FT	166	160 LB-FT 180%	220 LB-FT 247%	45

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA	4.7 LB-FT²	0 LB-FT²	20 SEC.	0	460 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	RODENT	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)	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
0.207	0.17	1.107	1.358	26.283	0.150	ODE

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

DATE: 1/23/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 1/23/2018

LM34119



Data @ 575 V

Motor Load Data

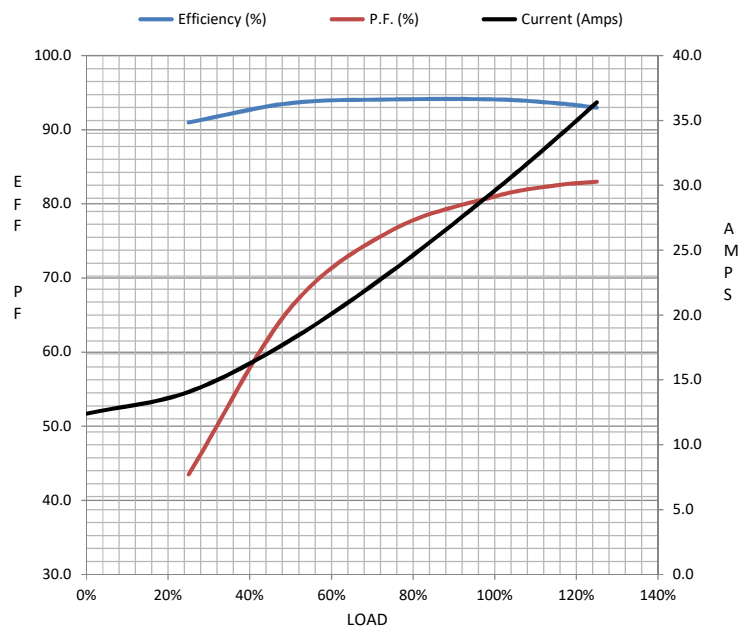
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.4	14.1	18.1	23.4	29.6	33.6	36.4	166	
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	102	112	160	
RPM	1800	1792	1788	1782	1772	1,770	1768	0	
Efficiency (%)		91.0	93.6	94.1	94.1	93.6	93.0		
P.F. (%)	3.0	43.5	66.0	76.5	81.0	82.5	83.0	35.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1678	1772	1800
Current (Amps)	166	150	103	29.6	12.4
Torque (ft-lb)	160	136	220	89.0	0.00

Information Block

HP	30.0			
Sync. RPM	1800			
Frame	286			
Enclosure	DP			
Construction	TDN			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	4.7 Lb-Ft²			
Ref Wdg	K2864304 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS207936-1512			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2070	0.1700	1.1070	1.3580	26.2830



Speed - Torque Curve

