

# PRODUCT INFORMATION PACKET

Model No: 811622.00

Catalog No: 811622.00

Speed Ratio Motors, TENV, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1765 RPM, 213TC Frame



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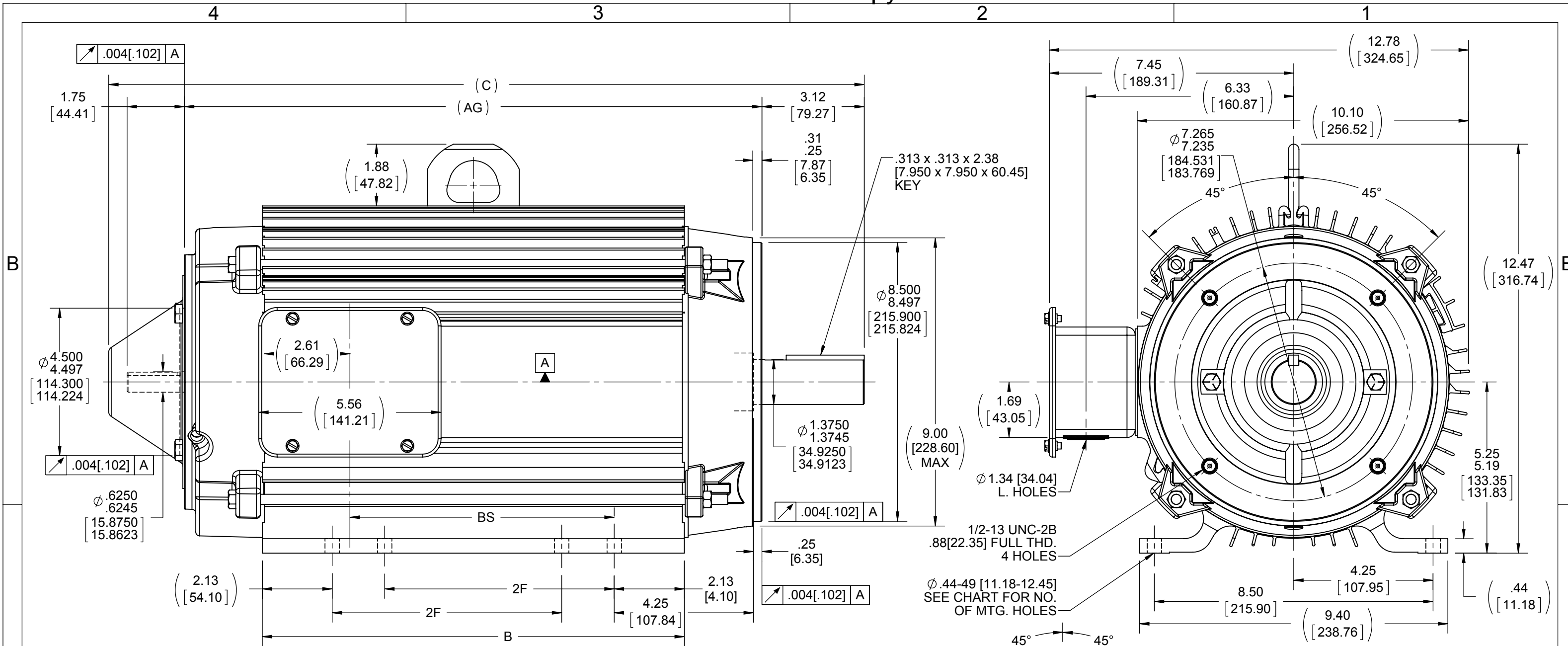
**Nameplate Specifications**

Output HP	<b>7.50 Hp</b>	Output KW	<b>5.6 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>21.0/10.5 A</b>	Speed	<b>1765 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>90.2 %</b>	Power Factor	<b>76</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>INV</b>	KVA Code	<b>L</b>
Frame	<b>213TC</b>	Enclosure	<b>Totally Enclosed Non Ventilated</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

**Technical Specifications**

Electrical Type	<b>Squirrel Cage Inverter Duty</b>	Starting Method	<b>Inverter Only</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>1.02 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Aluminum</b>
Shaft Type	<b>T</b>	Overall Length	<b>20.54 in</b>
Frame Length	<b>10.25 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.38 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Inverter Load	<b>CONSTANT 1000:1</b>		
Connection Drawing	<b>EE7308T-LE</b>	Outline Drawing	<b>SS330105-1025</b>





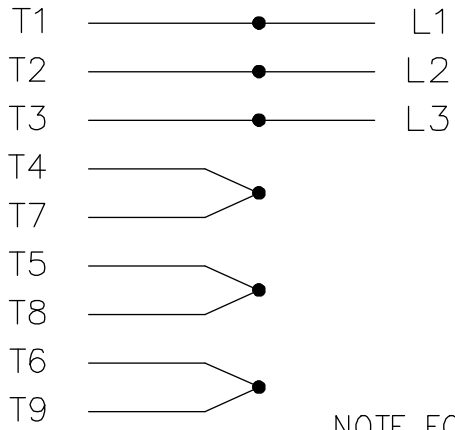
DASH	FR.	B	C	2F	AG	BS	F2 CAP.	# HOLES
875	213	8.87 [225.30]	19.04 [483.62]	5.50 [139.70]	13.61 [345.69]	4.05 [102.87]	YES	8
950	213	9.62 [244.35]	19.79 [502.67]	5.50 [139.70]	14.36 [364.74]	4.80 [121.92]	NO	4
1025	213	10.37 [263.40]	20.54 [521.72]	5.50 [139.70]	15.11 [383.79]	5.55 [140.97]	YES	8
1025	215	10.37 [263.40]	20.54 [521.72]	7.00 [177.80]	15.11 [383.79]	5.55 [140.97]	YES	8
1115	213/ 215	11.27 [286.26]	21.44 [544.58]	5.50[139.70] 7.00[177.80]	16.01 [406.65]	6.45 [163.83]	YES	8
1175	213	11.87 [301.50]	22.04 [559.82]	5.50 [139.70]	16.61 [421.89]	7.05 [179.07]	YES	8
1175	215	11.87 [301.50]	22.04 [559.82]	7.00 [177.80]	16.61 [421.89]	7.05 [179.07]	NO	4
1275	213	12.87 [326.90]	23.04 [585.22]	5.50 [139.70]	17.61 [447.29]	8.05 [204.47]	YES	8
1275	215	12.87 [326.90]	23.04 [585.22]	7.00 [177.80]	17.61 [447.29]	8.05 [204.47]	YES	8

NOTES:  
 1. CONDUIT BOX CAN BE ROTATED IN 180° STEPS.  
 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.  
 3. SEE CHART FOR F2 CAPABILITY. IF YES, BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.

DRAWING REVISION A	REVISION BY JWO	DATE 09-29-2014	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE ±7° 30"	DRAWN BY MKLEIST	Regal Beloit America, Inc.
ECO ECO-0060878	APPROVED BY TB	DATE 09-30-2014	REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [0.51] MACHINED SURFACES: 200 INCH mm 5.1 mm SHOWN IN [BRACKETS]	DATE 02-22-2005	
ECO DESCRIPTION MU118296, NMR-0067007 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.				APPROVED BY CDG	DESCRIPTION <b>OUTLINE</b> 210 FR. - ALUMINUM FRAME - TENV - DBL. C' FACE
				DATE 09-29-2005	MATERIAL PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE DRAWING NUMBER <b>B</b> <b>SS330105</b>
					SHEET 1 OF 1

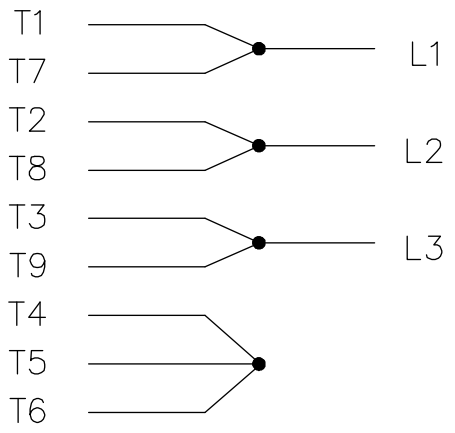
THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

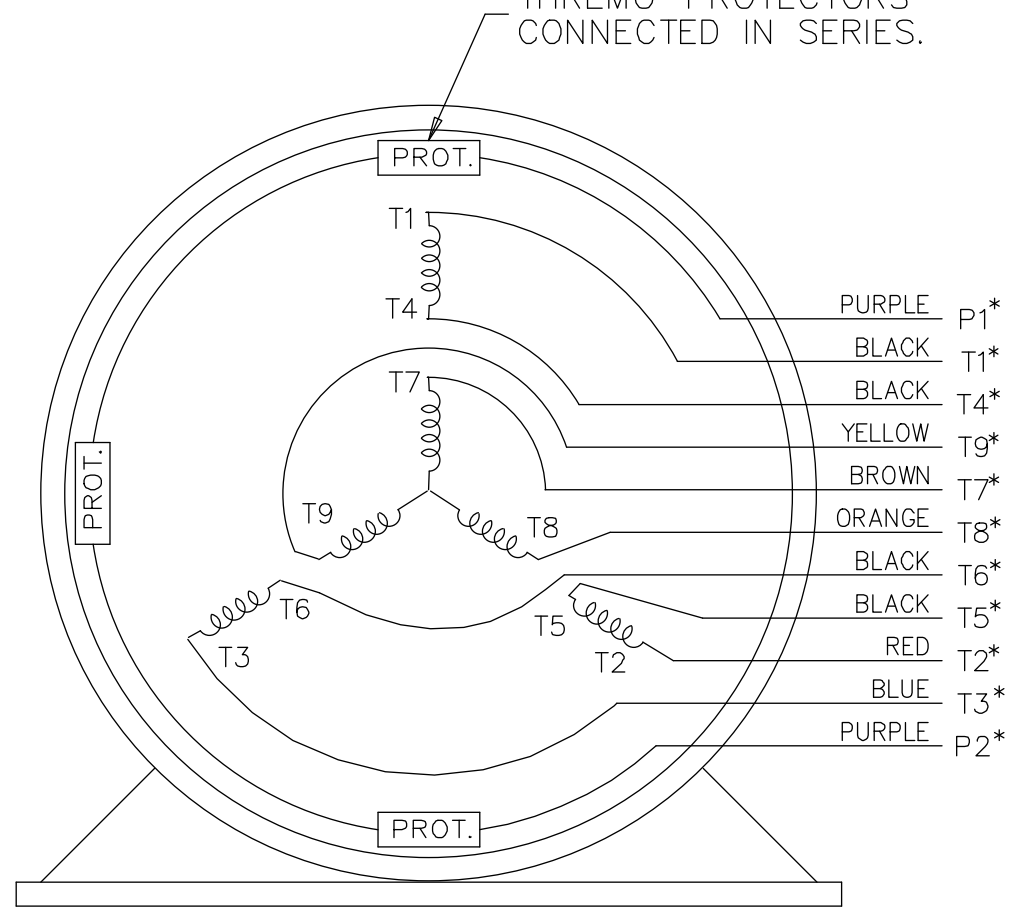


NOTE FOR FACTORY USE ONLY:  
 TO SURGE TEST FOR COMMON CONNECT:  
 HIGH VOLT: CONNECT P1 TO T1  
 THEN P2 TO L1  
 LOW VOLT: CONNECT P1 TO T1 & T7,  
 THEN P2 TO L1

LOW VOLTAGE



THREMO-PROTECTORS  
CONNECTED IN SERIES.



VIEW OF TERMINAL END

\* USE LEADS AS PER PLANT STANDARD IRRWSPECTIVE OF THEIR COLOUR.

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWING NO.	PAGE	OF	REV.
					DEC.	INCHES					
05	ADDED * NOTE PER ECN # 26921	UD 01-30-2013	JD	DEC.	INCHES						
04	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML	.X	±.1						
03	RE-ISSUE	NJS 04-21-2004	JET	.XX	±.02						
02	REDRAWN	TAT 04-20-2004	ML	.XXX	±.005						
01	NEW DRAWING CN 34708	TJB 05-08-2002	ML	.XXXX	±.0005						
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							DIST LB-WP-LE				



ELECTRIC MOTORS  
GEARMOTORS  
AND DRIVES

TITLE CONNECTION DIAGRAM  
3 PHASE - DUAL VOLTAGE MOTOR

DRAWN	TJB	05-07-2002
CHK	ML	05-08-2002
APPD	TB	05-08-2002
SCALE	1=1	
REF		
FMF		
PREV		

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



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: EE7308T-LE  
 OUTLINE: SS330105-1025  
 WINDING: K2134177

CAT #: 811622.00

NONE 1

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	1800	1765	213TC	TENV	TTL	L	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	21/10.5	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	90.2	3/4 LD EFF	89.5	1/2 LD EFF	87.5	GTD EFF	88.5	ELECT. TYPE	SQ CAGE INV DUTY
F.L. PF	76.0	3/4 LD PF	69.0	1/2 LD PF	56.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
22.3 LB-FT	90.0	59.5 LB-FT 267%	95.5 LB-FT 428%	80

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	150 LB.

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	NO	NONE	NO	NONE	JE - LEESON (ENAM)

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
6309	6206						

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
0.699	0.567	1.765	2.26	38.178	0.150	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED	
	ENCODER: NORTHSTAR ST56 NONE	
	NONE PPR	
	BRAKE: NONE NONE NONE	
	FT-LB: NA VOLTAGE: NONE HZ:	

DATE: 1/23/2018	UL: Y-(LEESON UL REC)
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Data Sheet

Date: 1/23/2018

811622.00



Data @ **460 V**

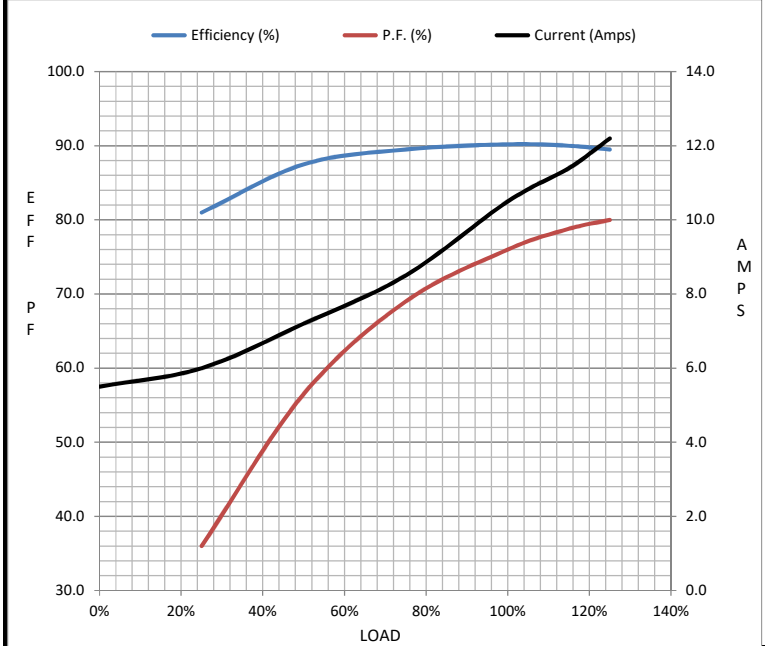
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	5.5	6.0	7.2	8.5	10.5	11.4	12.2	90.0
Torque (ft-lb)	0.00	5.5	11.0	16.8	22.3	25.7	28.0	59.5
RPM	1800	1792	1782	1772	1765	1.760	1755	0
Efficiency (%)		81.0	87.5	89.5	90.2	90.0	89.5	
P.F. (%)	6.5	36.0	56.5	69.0	76.0	78.8	80.0	41.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1515	1765	1800
Current (Amps)	90.0	85.0	55.0	10.5	5.5
Torque (ft-lb)	59.5	55.0	95.5	22.3	0.00

Information Block				
HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	80 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.90 Lb-Ft <sup>2</sup>			
Ref Wdg	K2134177 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	SS330105-1025			
Conn. Diag	EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.6990	0.5670	1.7650	2.2600	38.1780



Speed - Torque Curve

