

# PRODUCT INFORMATION PACKET

Model No: 811628.00

Catalog No: 811628.00

Speed Ratio Motors, TENV, 10 HP, 3 Ph, 60 Hz, 230/460 V, 1774 RPM, 215TC Frame



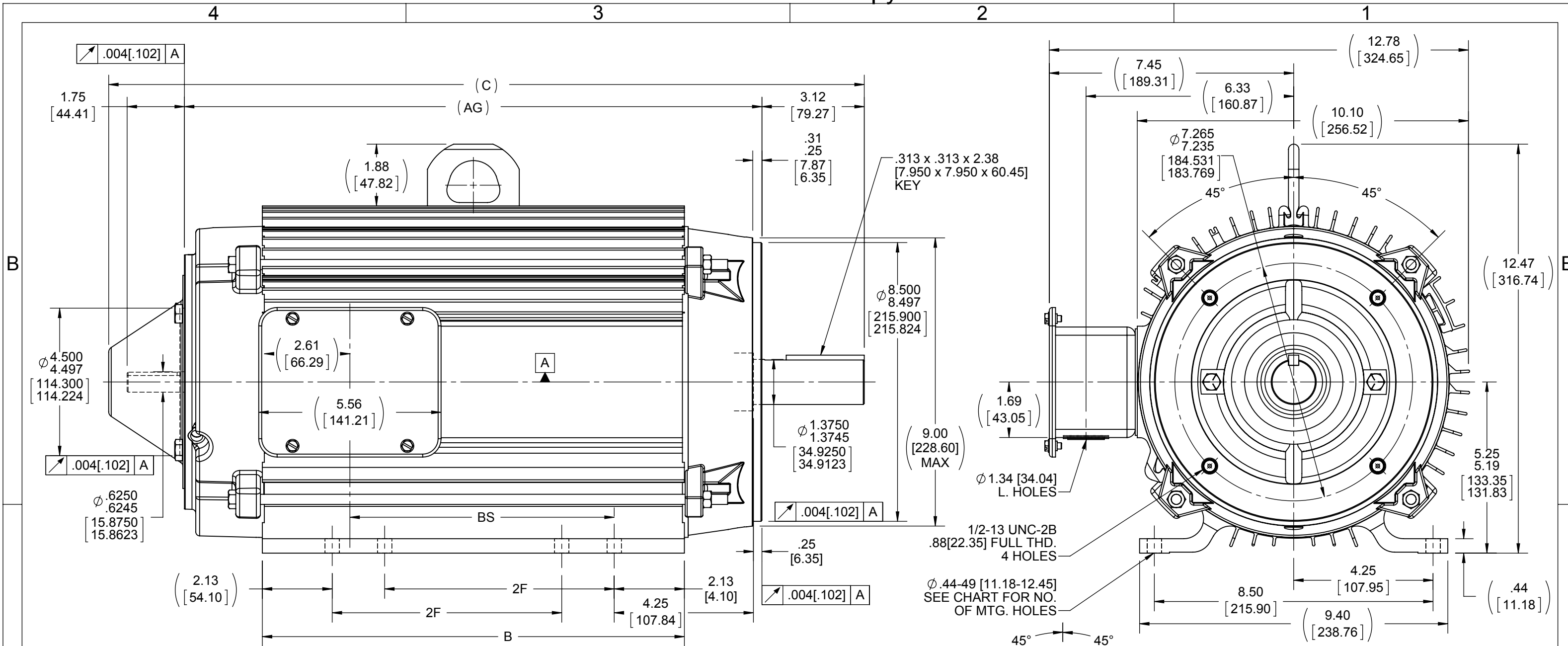
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**Nameplate Specifications**

Output HP	<b>10 Hp</b>	Output KW	<b>7.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>27.0/13.5 A</b>	Speed	<b>1774 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>M</b>
Frame	<b>215TC</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>.59 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>23.04 in</b>
Frame Length	<b>12.75 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.12 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Connection Drawing	<b>EE7308T-LE</b>	Outline Drawing	<b>SS330105-1275</b>



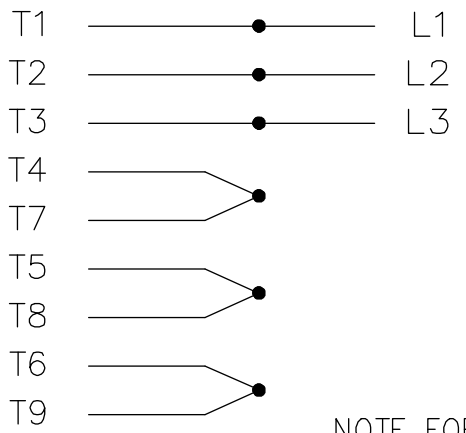
DASH	FR.	B	C	2F	AG	BS	F2 CAP.	# HOLES
875	213	8.87 [225.30]	19.04 [483.62]	5.50 [139.70]	13.61 [345.69]	4.05 [102.87]	YES	8
950	213	9.62 [244.35]	19.79 [502.67]	5.50 [139.70]	14.36 [364.74]	4.80 [121.92]	NO	4
1025	213	10.37 [263.40]	20.54 [521.72]	5.50 [139.70]	15.11 [383.79]	5.55 [140.97]	YES	8
1025	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
				REFERENCE	PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE B
					DRAWING NUMBER <b>SS330105</b>
					SHEET 1 OF 1

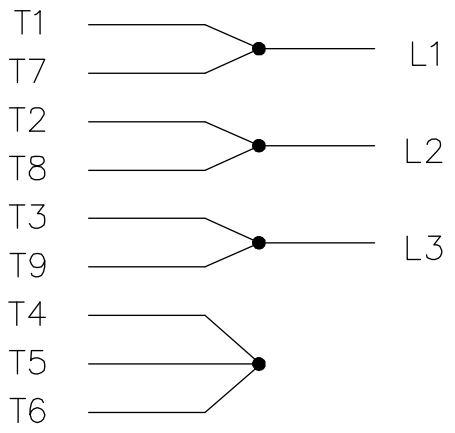
THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

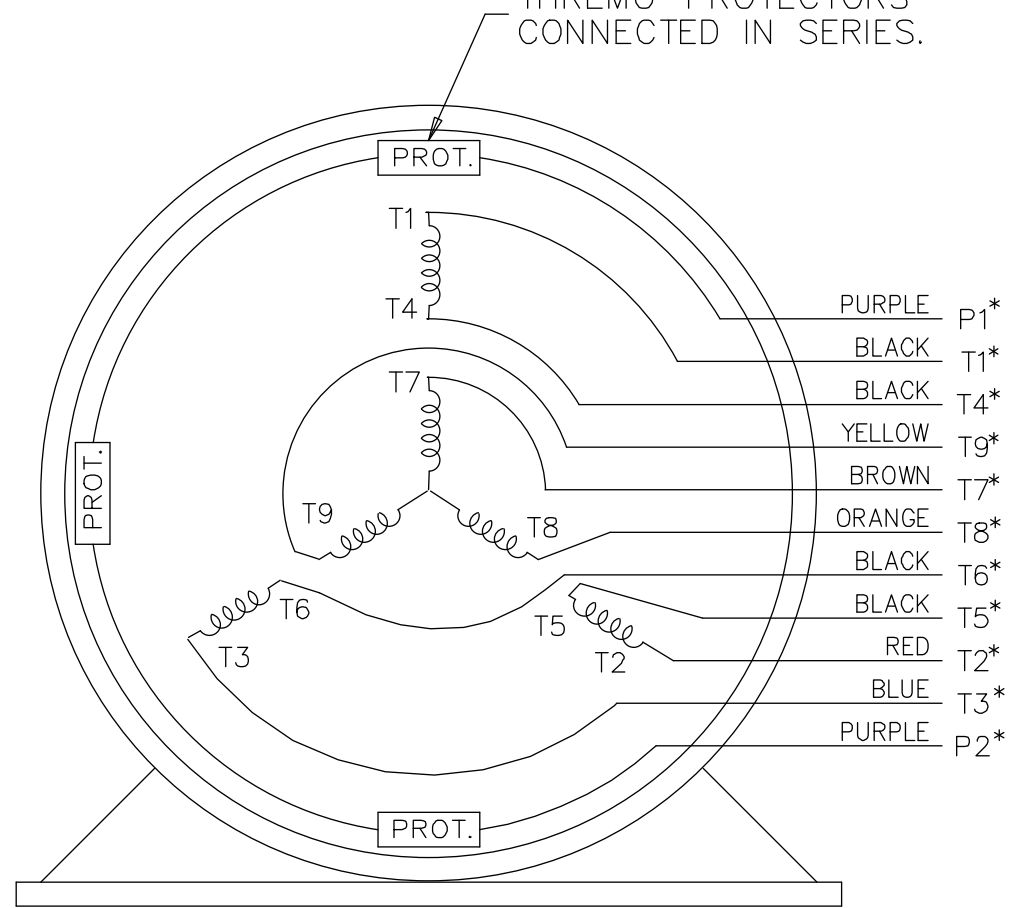


NOTE FOR FACTORY USE ONLY:  
 TO SURGE TEST FOR COMMON CONNECT:  
 HIGH VOLT: CONNECT P1 TO T1  
 THEN P2 TO L1  
 LOW VOLT: CONNECT P1 TO T1 & T7,  
 THEN P2 TO L1

LOW VOLTAGE




THREMO-PROTECTORS  
CONNECTED IN SERIES.



VIEW OF TERMINAL END

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

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN TJB 05-07-2002		
NO.	REVISION	BY & DATE	CHK	ANG	±		FINISH	CHK	ML
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			05-08-2002	
03	RE-ISSUE	NJS 04-21-2004	JET	.XX	±.02	TITLE CONNECTION DIAGRAM		05-08-2002	
02	REDRAWN	TAT 04-20-2004	ML	.XXX	±.005	3 PHASE - DUAL VOLTAGE MOTOR	SCALE	1=1	
01	NEW DRAWING CN 34708	TJB 05-08-2002	ML	.XXXX	±.0005	MAT'L.	REF		
					±7'30"		FMF		
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_LE	SIZE	DRAWING NO. PAGE OF	REV.
				DIST LB-WP-LE			A	EE7308T-LE	05



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

DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: EE7308T-LE

CAT #: 811628.00

OUTLINE: SS330105-1275

WINDING: K2154304

NONE 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	1800	1774	215TC	TENV	TTL	M	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	27/13.5	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	90.2	3/4 LD EFF	90.2	1/2 LD EFF	87.5	GTD EFF	ELECT. TYPE
F.L. PF	76.0	3/4 LD PF	69.0	1/2 LD PF	56.0	88.5	SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
29.6 LB-FT	125	110 LB-FT 372%	125 LB-FT 422%	90

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA		1.30 LB-FT²	0 LB-FT²	0 SEC.	0	175 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	WATTSAVER

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM
BALL	BALL						
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
0.284	0.284	1.42	2.272	34.932	0.150	ODE

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

DATE:	9/10/2018	UL: Y-(LEESON UL REC)			
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Data Sheet

Date: 9/10/2018

811628.00



Data @ **460 V**

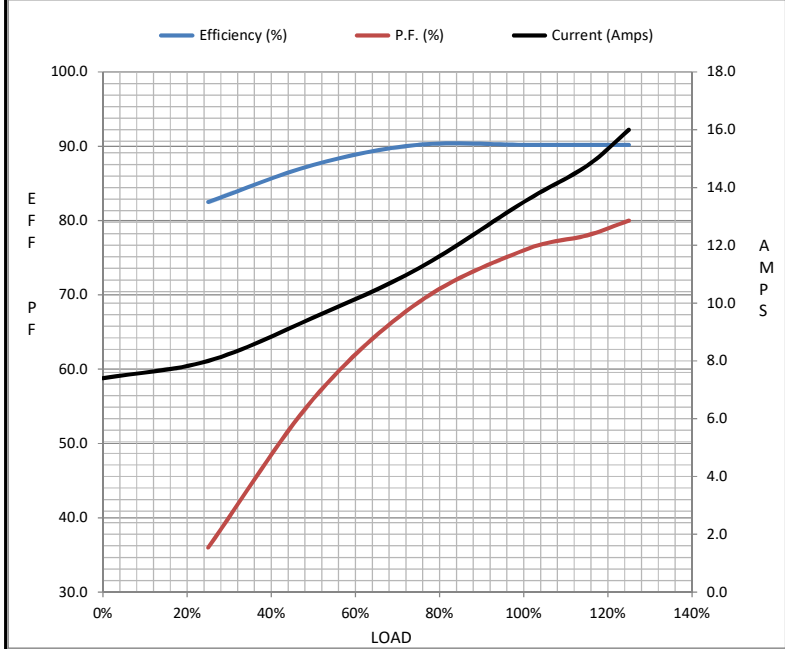
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	7.4	8.0	9.5	11.2	13.5	14.8	16.0	125
Torque (ft-lb)	0.00	7.5	14.7	22.2	29.6	33.4	37.2	110
RPM	1800	1792	1786	1780	1774	1,771	1766	0
Efficiency (%)		82.5	87.5	90.2	90.2	90.2	90.2	
P.F. (%)	7.0	36.0	56.0	69.0	76.0	78.0	80.0	43.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1774	1800
Current (Amps)	125	105	70.0	13.5	7.4
Torque (ft-lb)	110	100	125	29.6	0.00

Information Block				
HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	M			
Service Factor	1.0			
Temp Rise @ FL	90 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	1.30 Lb-Ft <sup>2</sup>			
Ref Wdg	K2154304 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	SS330105-1275			
Conn. Diag	EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2840	0.2840	1.4200	2.2720	34.9320



Speed - Torque Curve

