

PRODUCT INFORMATION PACKET



Model No: LM28903
Catalog No: LM28903

Elevator Duty Motor, 60 & 50 HP, 3 Ph, 60 & 60 Hz, 200 & 200 V, 1800 & 1800 RPM, 326T Frame, DP



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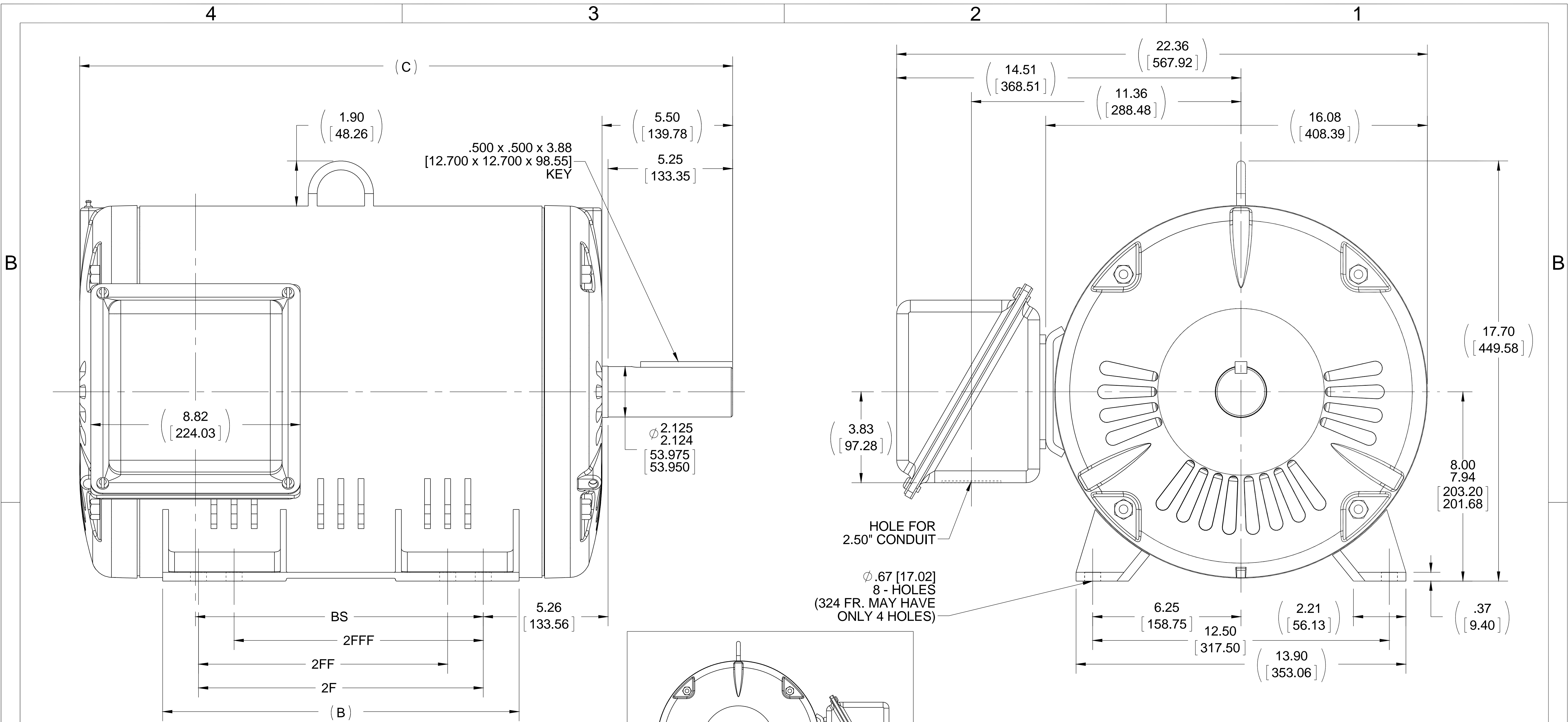


Nameplate Specifications

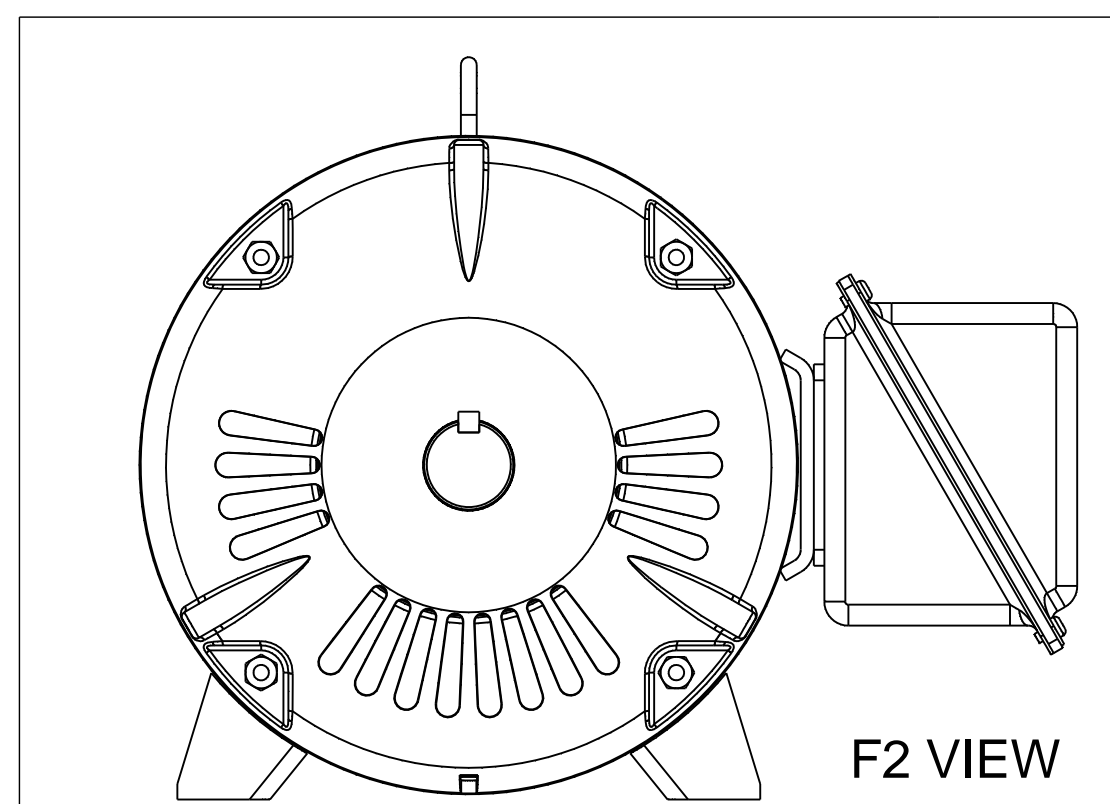
Phase	3	Output HP	60 & 50 Hp
Output KW	44.8 & 37.3 kW	Voltage	200 & 200 V
Speed	1780 & 1785 rpm	Service Factor	1.0 & 1.0
Frame	326T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	92.4 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	176 & 150 A	Power Factor	79
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	INV	KVA Code	G
Drive End Bearing Size	311	Opp Drive End Bearing Size	309
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.138 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	27.51 in
Frame Length	16.57 in	Shaft Diameter	2.125 in
Shaft Extension	5.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XG2D1SS1-1657	Connection Drawing	A-EE7340-LN



- NOTES:
- CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 - NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.



DASH	FRAME	B	C	2F	2FF	2FFF	BS
1507	324T	13.52 [343.41]	26.01 [660.65]	10.50 [266.70]	---	---	10.63 [270.00]
1657	326T	15.02 [381.51]	27.51 [698.75]	12.00 [304.80]	10.50 [266.70]	10.50 [266.70]	12.13 [308.10]

DRAWING REVISION E	REVISION BY T. VUE	DATE 09-22-2016
ECO ECO-0109505	APPROVED BY T. BROWN	DATE 09-22-2016
ECO DESCRIPTION MU124402 / NMR-0106907		

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	± 0.1	[± 2.5]	$\pm 7' 30''$
.XX	± 0.03	[± 0.76]	
.XXX	± 0.005	[± 0.127]	
.XXXX	± 0.0005	[± 0.0127]	

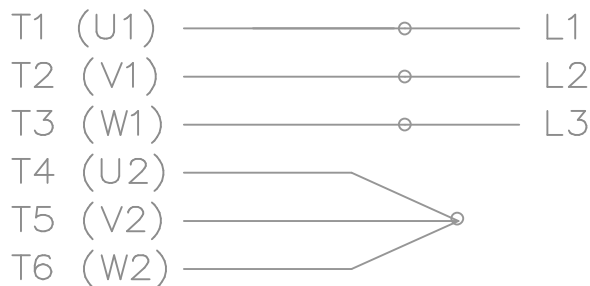
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381]
CORNER FILLETS: .02 [.51]
MACHINED SURFACES: 200 INCH/mm 5.1
mm SHOWN IN [BRACKETS]

DRAWN BY TJB
DATE 08-09-2001
APPROVED BY HNH
DATE 08-29-2001
REFERENCE
THIRD ANGLE PROJECTION

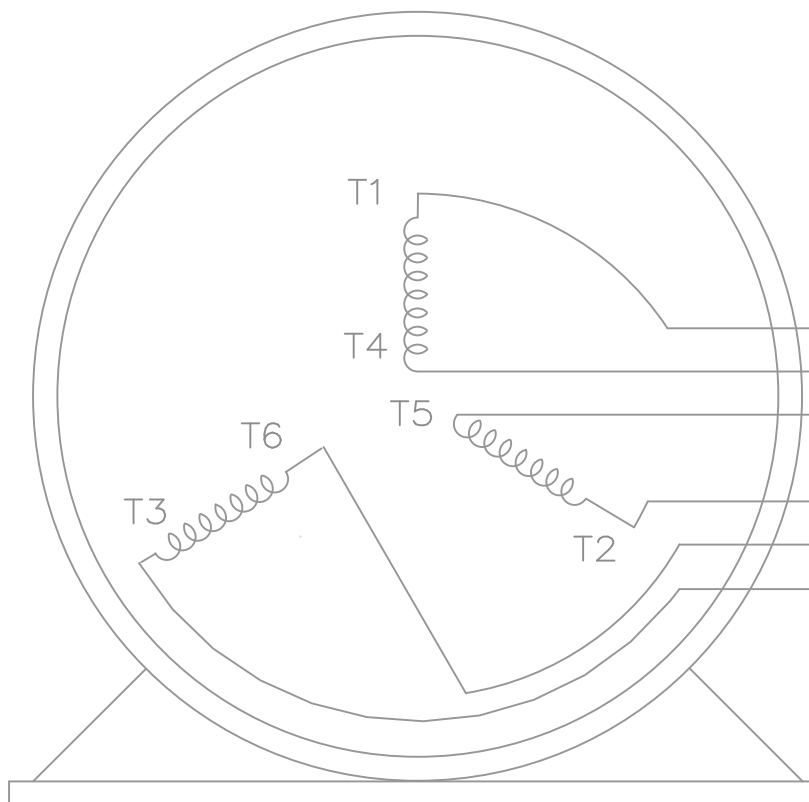
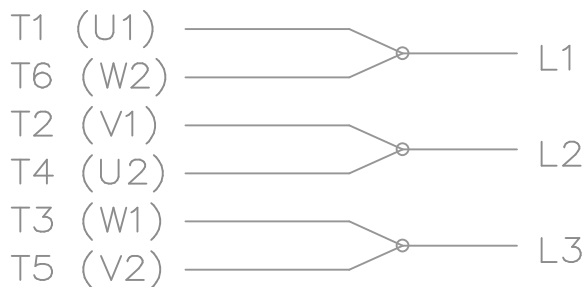
REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 320T FR. - ODP - UE	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER XG2D1SS1
SHEET 1 OF 1	

THREE PHASE – Y START
Δ RUN MOTOR

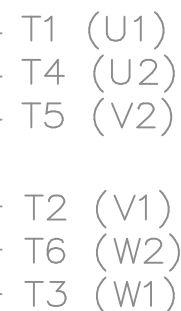
START



RUN




VIEW OF TERMINAL END



NOTE:
IEC LEAD MARKINGS ARE NOTED
IN PARENTHESES

T6CK
T6BM
T4CC
T2DL
T4C

			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	SCALE 1=1	
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML	.XXX	±.005	3Ø – WYE START DELTA RUN	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 A	DRAWING NO. EE7340-LN	PAGE OF 3
			DIST	WA-LB-SB				REV. 3



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: XG2D1SS1-1657
WINDING: C3264029

CAT #: LM28903

R1 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
50	37	1800	1785	326T	DP	TDR	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/60	200#200	150&176	VYE START DELTA RUN	60 MIN	F	1.15	40	3300

F.L. EFF	93.0	3/4 LD EFF	93.0	1/2 LD EFF	92.4	GTD EFF	ELECT. TYPE
F.L. PF	78.0	3/4 LD PF	73.5	1/2 LD PF	64.0	91.7	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
148 LB-FT	787	285 LB-FT 193%	356 LB-FT 241%	0

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA		9.0 LB-FT²	0 LB-FT²	20 SEC.	0	0 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	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)	ROLLED STEEL
BALL	BALL						
311	309						

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
0.019	0.008	0.08	0.162	2.04	0.150	ODE

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

DATE:	8/21/2018	BRAKE: NONE NONE NONE				NONE	
		FT-LB: NA		VOLTAGE: NONE		HZ:	
UL: V-INS, CONST UL REC							

Data Sheet

Date: 8/21/2018

LM28903



Data @ **200 V**

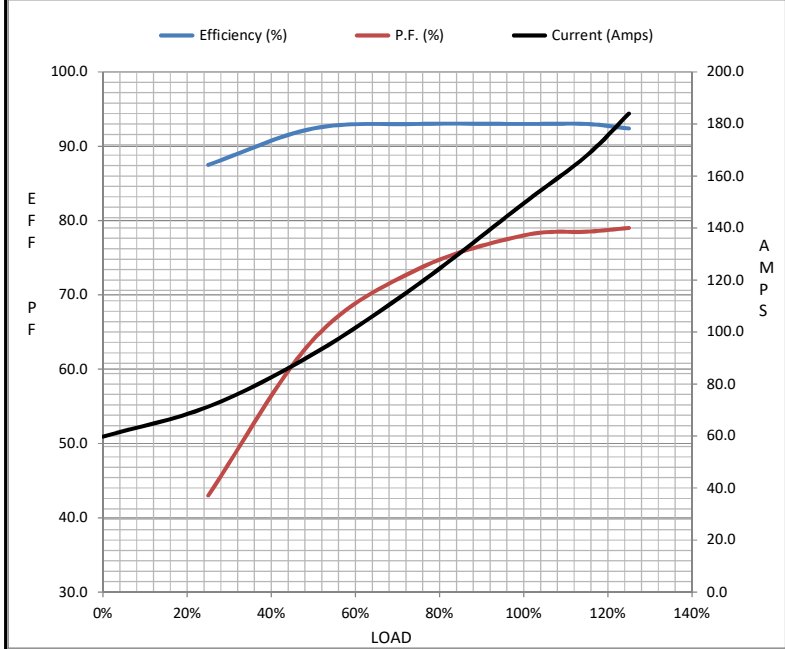
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	59.8	71.3	91.5	118	150	168	184	787
Torque (ft-lb)	0.00	36.5	73.5	110	148	170	185	285
RPM	1800	1798	1795	1790	1785	1,782	1778	0
Efficiency (%)		87.5	92.4	93.0	93.0	93.0	92.4	
P.F. (%)	5.5	43.0	64.0	73.5	78.0	78.5	79.0	37.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1710	1785	1800
Current (Amps)	787	713	518	150	59.8
Torque (ft-lb)	285	255	356	148	0.00

Information Block				
HP	50.0			
Sync. RPM	1800			
Frame	326			
Enclosure	DP			
Construction	TDR			
Voltage	200#200 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	0 ° C			
Duty	60 MIN			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	9.0 Lb-Ft ²			
Ref Wdg	C3264029 R1			
Sound Pressure @ 1M	75 dBA			
VFD Rating	NONE			
Outline Dwg	XG2D1SS1-1657			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0190	0.0080	0.0800	0.1620	2.0400



Speed - Torque Curve

