

PRODUCT INFORMATION PACKET



Model No: B199739.00

Catalog No: B199739.00

General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
213TC Frame, DP



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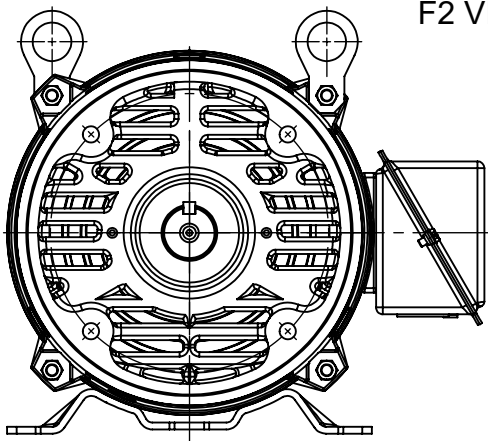
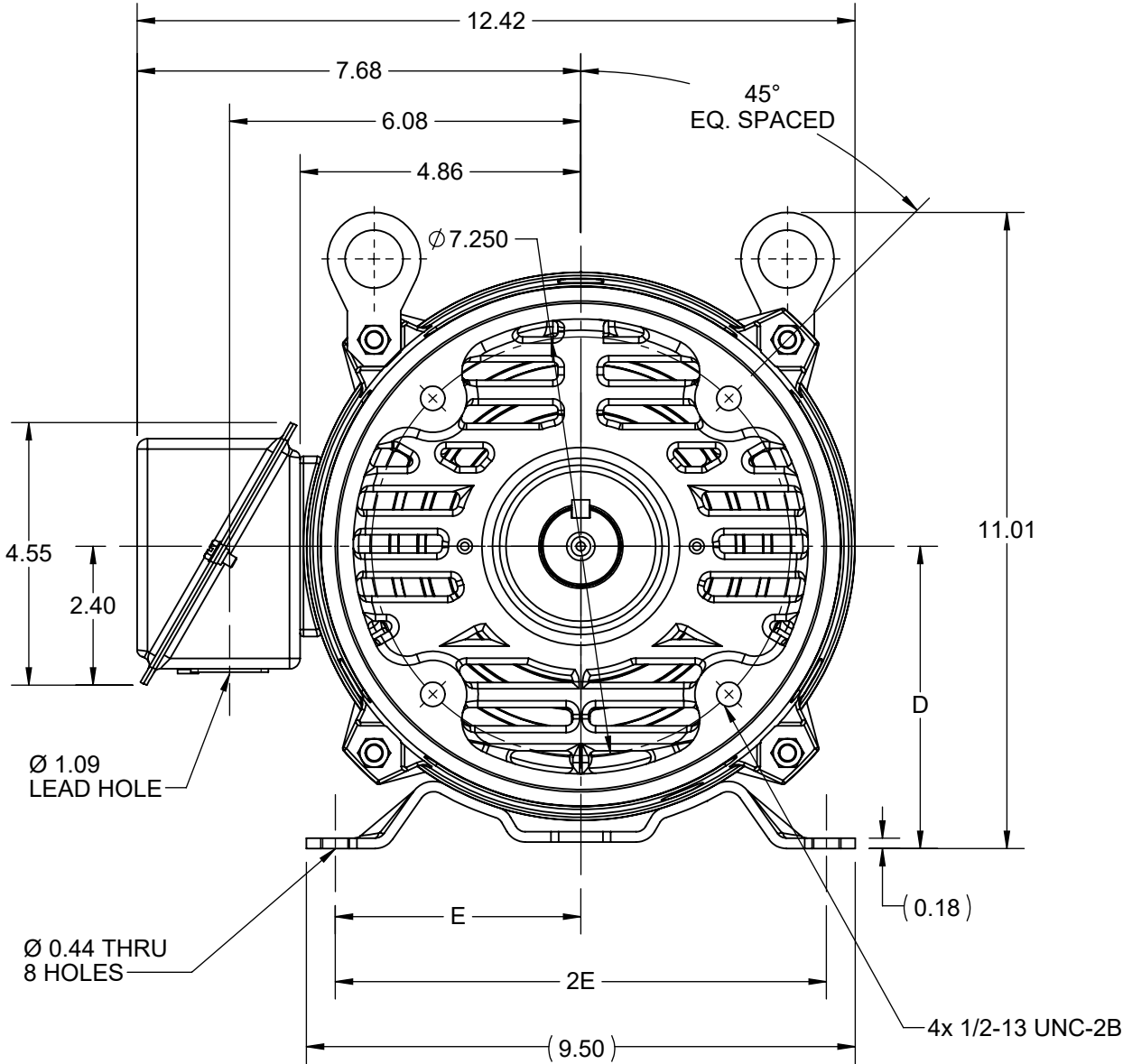
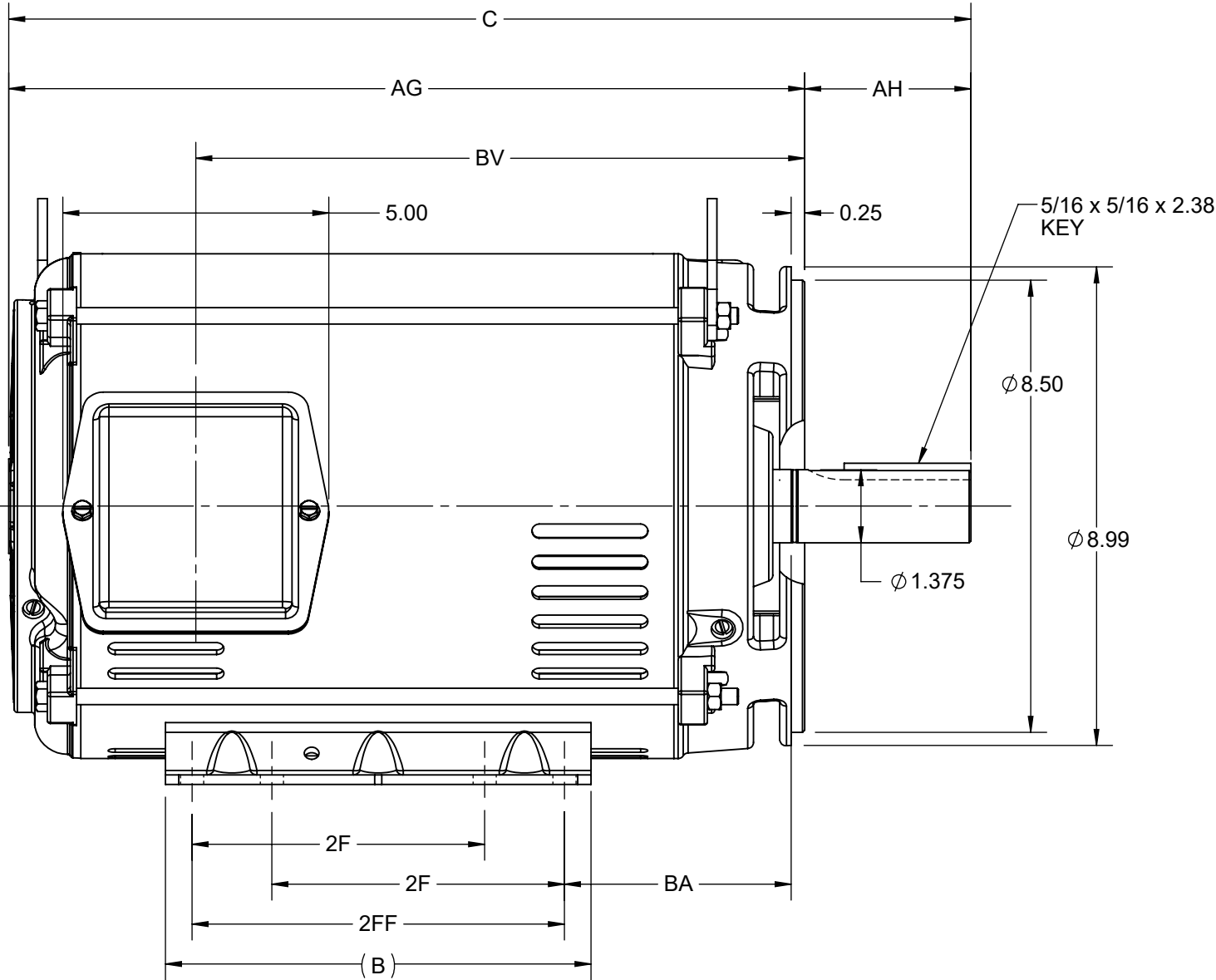
Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	1766 & 1472 rpm	Service Factor	1.15 & 1.15
Frame	213TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91 & 90.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	19.8/9.9 & 16.8/8.4 A	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications



Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	1.698 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	18.10 in
Frame Length	11.15 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	VARIABLE 10:1		
Connection Drawing	EE7308	Outline Drawing	SS620707

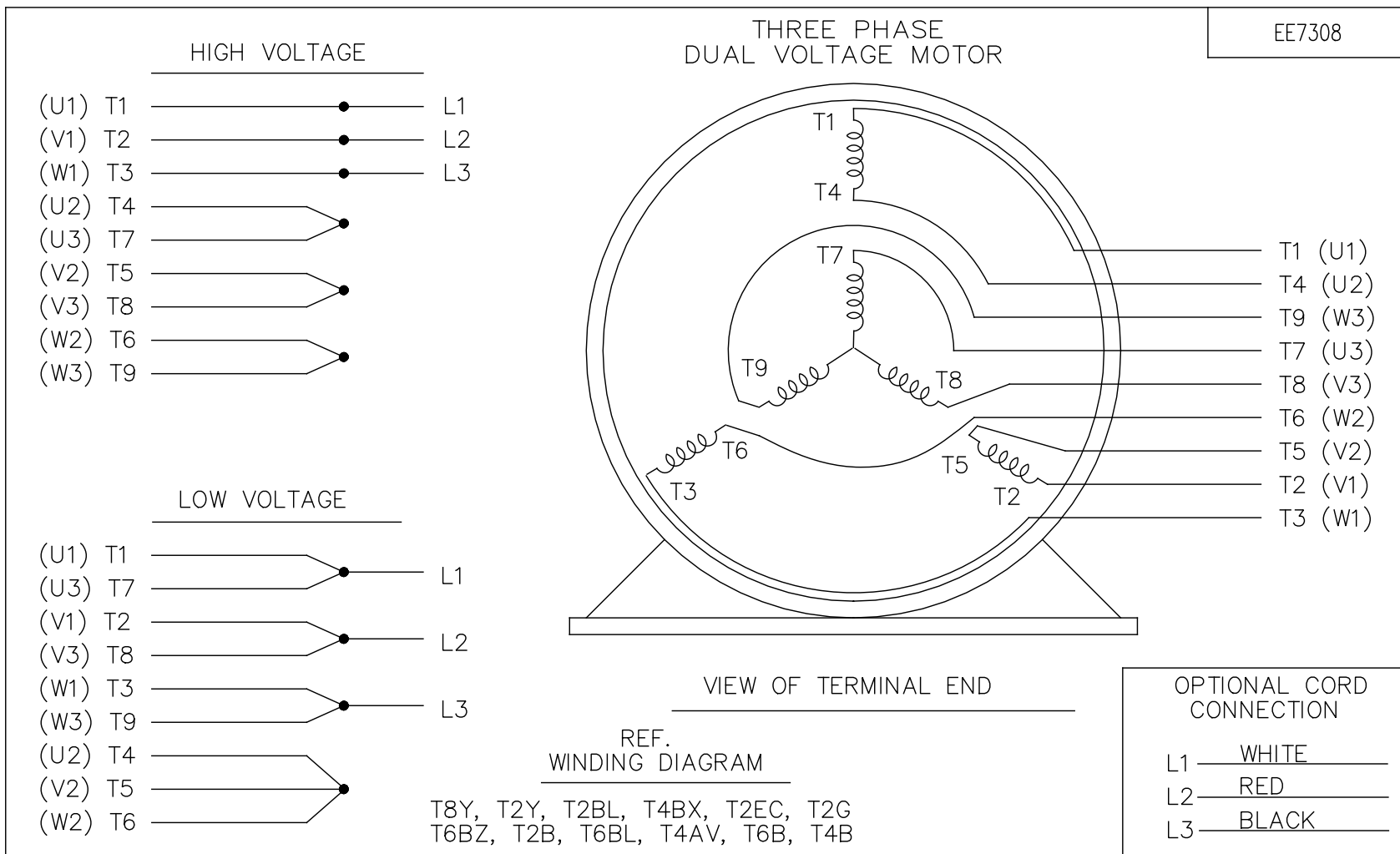
4					3					2		1	
B	C	D	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING		
8.00	18.09	5.25	4.25	8.50	5.50	7.00	14.96	3.12	4.25	11.45	F1 OR F2		




DRAWING REVISION F	REVISION BY RAM	REV DATE/© DATE 09/05/2022
REQUEST NUMBER CR-0008840	APPROVED BY SBD	DATE 09/05/2022
REQUEST NUMBER DESCRIPTION FRAME AND CONDUIT BOX PART # UPDATED AS PER CR		
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DRAWN BY WY	 Regal Beloit America, Inc.	
DATE 25/02/2016		
APPROVED BY ZYW	DESCRIPTION OUTLINE 213/215TC FR NEMA ODP RS	
DATE 25/02/2016		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION 	SIZE B	DRAWING NUMBER SS620707
		SHEET 1 OF 1



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM	11/20/1990
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		CHK	ML 11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD	SAS 04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE 1=1	
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR		REF
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005	MAT'L.		FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7"30"	FINISH		PREV
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1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308

CAT #: B199739.00

OUTLINE: SS620707

WINDING: HE31324018

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	1800	1766	213TC	DP	TDB	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	19.8/9.9&16.8/8.4	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.4	1/2 LD EFF	90.2	GTD EFF	90.2	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	79.0	3/4 LD PF	73.0	1/2 LD PF	61.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
22.3 LB-FT	60.0	44.0 LB-FT 197%	57.0 LB-FT 256%	40

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
47 dBA	56 dBA		9.8 LB-FT²	50 LB-FT²	20 SEC.	2	135 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6307 6206						

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
1.005	0.556	2.88	3.13	54.545	0.150	ODE

* N O T E S *		INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE	
	NONE	
	NONE	NONE PPR

DATE: 9/11/2018	BRAKE: NONE
	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE HZ:
UL: Y-(LEESON UL REC)	

Data Sheet

Date: 9/11/2018

B199739.00



Data @ 460 V

Motor Load Data

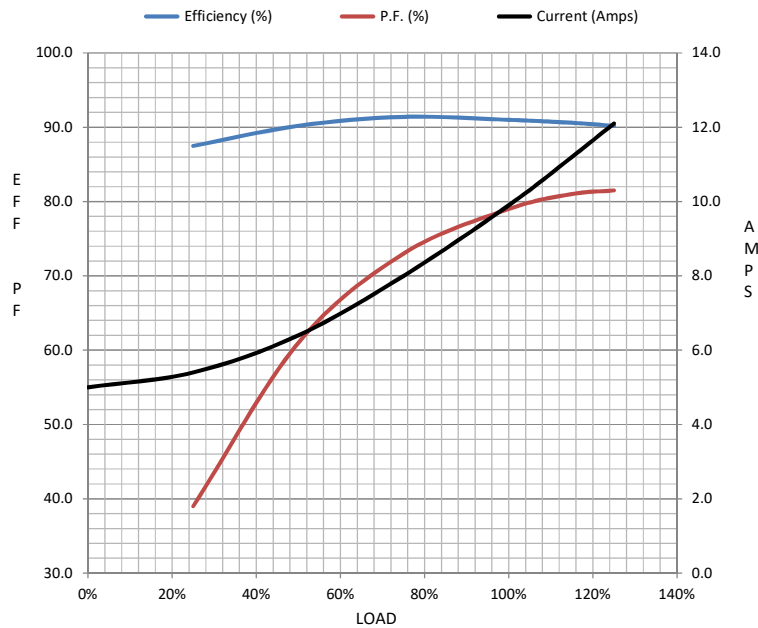
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.0	5.4	6.4	8.0	9.9	11.2	12.1	60.0	
Torque (ft-lb)	0.00	5.5	11.0	16.7	22.3	25.8	28.0	44.0	
RPM	1800	1792	1785	1775	1766	1,760	1755	0	
Efficiency (%)		87.5	90.2	91.4	91.0	90.6	90.2		
P.F. (%)	6.0	39.0	61.0	73.0	79.0	81.0	81.5	45.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1585	1766	1800
Current (Amps)	60.0	54.0	34.0	9.9	5.0
Torque (ft-lb)	44.0	37.5	57.0	22.3	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	DP			
Construction	TDB			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	40	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	9.8	Lb-Ft²		
Ref Wdg	HE31324018 NONE			
Sound Pressure @ 1M	47	dBA		
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS620707			
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.0050	0.5560	2.8800	3.1300	54.5450



Speed - Torque Curve

