

PRODUCT INFORMATION PACKET



Model No: B199694.00
Catalog No: B199694.00
General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM,
254T Frame, DP



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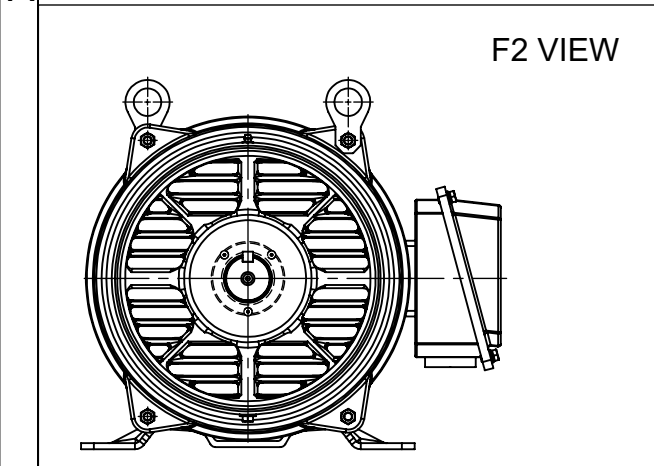
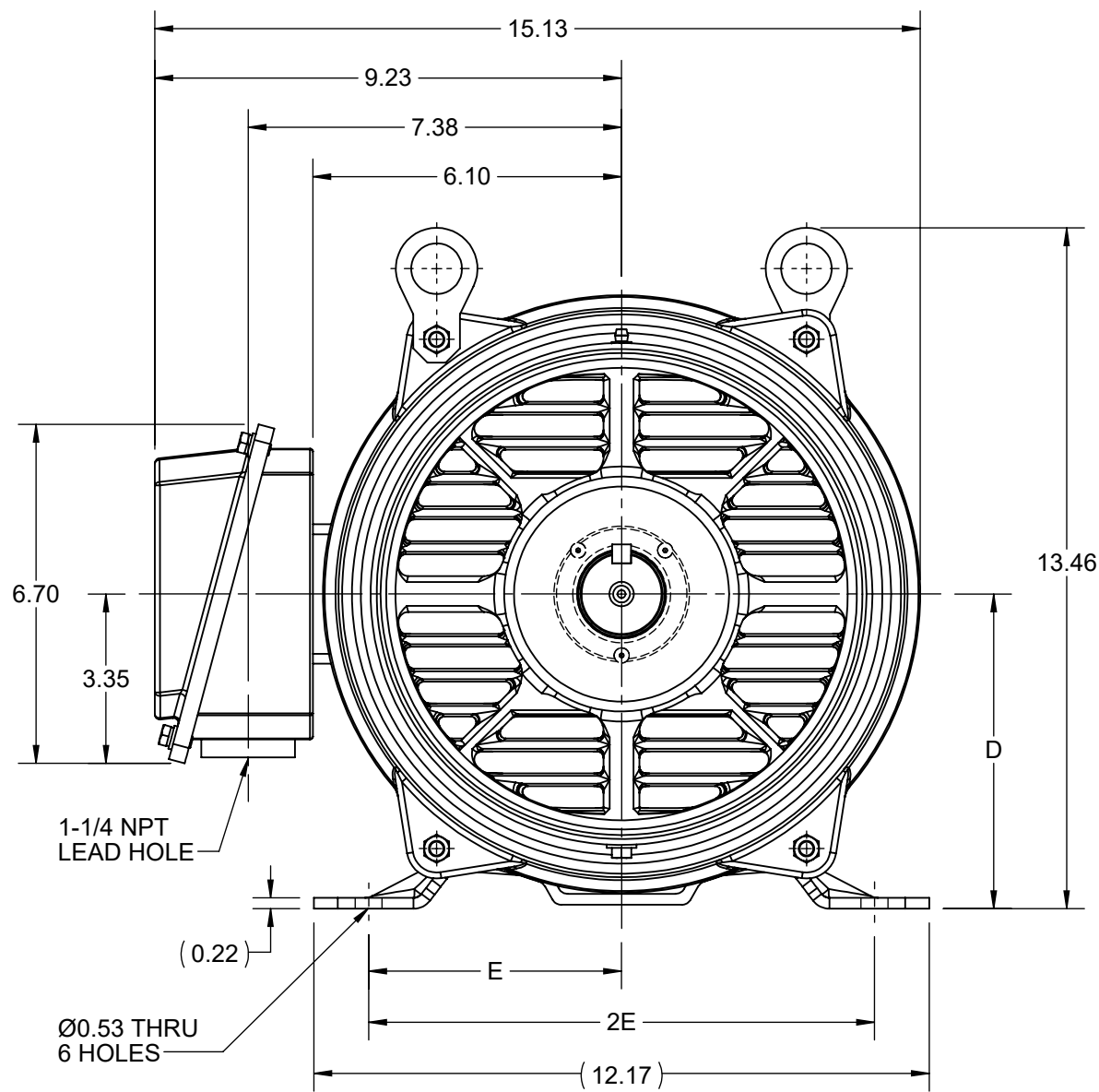
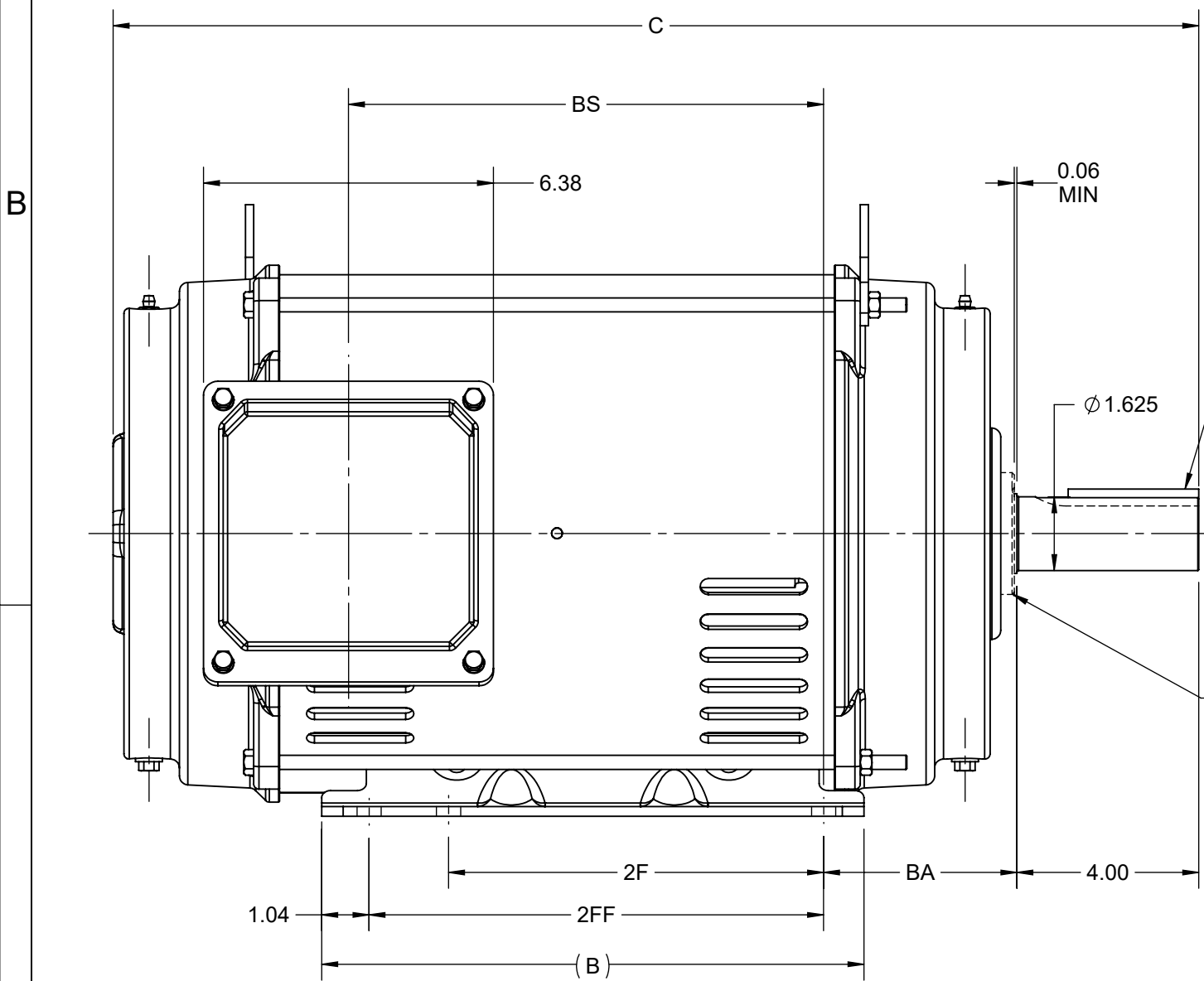
Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	1182 & 984 rpm	Service Factor	1.15 & 1.15
Frame	254T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	90.2 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	20.2/10.1 & 17.6/8.8 A	Power Factor	77
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	1.659 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	22.64 in
Frame Length	10.62 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS620685-254T	Connection Drawing	EE7308K

4				3				2			1
DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	11.93	22.31	6.25	5.00	10.00	8.25	10.00	4.25	8.82	F1 OR F2	254T
200		23.88							10.45		256T



DRAWING REVISION C	REVISION BY GOPI J	REV DATE/© DATE 08/02/2022
REQUEST NUMBER CR-0006810	APPROVED BY SBD	DATE 08/02/2022
REQUEST NUMBER DESCRIPTION VIEWS UPDATED AS PER 3D		
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DRAWN BY XZ	Regal Rexnord Regal Beloit America, Inc.	
DATE 25/02/2016	DESCRIPTION OUTLINE 254/256T FR NEMA ODP RS	
APPROVED BY	MATERIAL	PROCESS/FINISH
DATE	SIZE B	DRAWING NUMBER SS620685
REFERENCE	THIRD ANGLE PROJECTION	SHEET 1 OF 1

LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN PGK 06-04-1997						
NO.	REVISION	BY & DATE	CHK	ANG	±		UNIT	CHK	ML 06-05-1997				
E	CORRECTED IEC MARKINGS	ECO-0111208	WGJ	01-23-2017	EMH	DEC.	INCHES	APPD	GK 06-15-1997				
D	RE-DRAWN WITH REGAL LOGO	ECO-0110493	WGJ	09-30-2016	EMH	.X	±.1						
8	ADDED IEC DESIGNATIONS	MU95020	TJW	4/30/2010	MJS	.XX	±.02	TITLE CONNECTION DIAGRAM					
7	REVISED HIGH VOLTAGE L2 WAS L3	CN52600-354	MRB	09-21-1998		.XXX	±.005	SCALE					
6	REDRAWN ON CADD		PGK	06-05-1997		.XXXX	±.0005	REF					
								MAT'L.					
								FINISH					
								PREV					
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1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308K
OUTLINE: SS620685
WINDING: HE31606009

CAT #: B199694.00

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	1200	1182	254T	DP	TDC	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	20.2/10.1&17.6/8.8	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	90.2	3/4 LD EFF	90.2	1/2 LD EFF	88.5	GTD EFF	ELECT. TYPE
F.L. PF	77.0	3/4 LD PF	70.0	1/2 LD PF	58.0	89.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
33.4 LB-FT	60.0	66.0 LB-FT 198%	85.0 LB-FT 254%	40

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA		2.40 LB-FT²	150 LB-FT²	15 SEC.	2	225 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						
6309	6208						

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
0.983	0.48	2.548	3.119	48.082	0.080	ODE

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

B199694.00



Data @ **460 V**

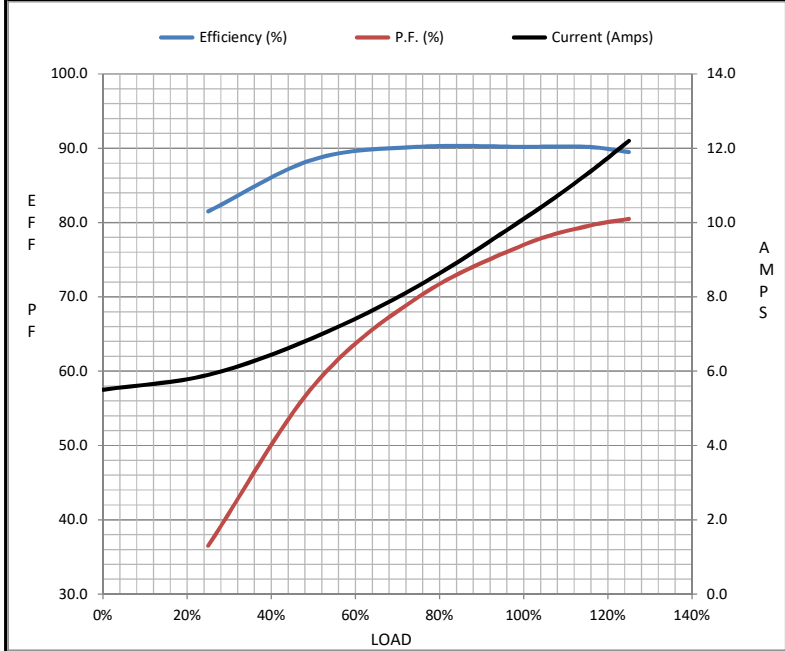
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	5.5	5.9	6.9	8.3	10.1	11.3	12.2	60.0
Torque (ft-lb)	0.00	8.2	16.5	24.9	33.4	38.5	42.0	66.0
RPM	1200	1195	1190	1185	1182	1,178	1175	0
Efficiency (%)		81.5	88.5	90.2	90.2	90.2	89.5	
P.F. (%)	6.5	36.5	58.0	70.0	77.0	79.5	80.5	46.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1080	1182	1200
Current (Amps)	60.0	51.0	35.0	10.1	5.5
Torque (ft-lb)	66.0	56.0	85.0	33.4	0.00

Information Block				
HP	7.5			
Sync. RPM	1200			
Frame	254			
Enclosure	DP			
Construction	TDC			
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 wk ²	2.40 Lb-Ft ²			
Ref Wdg	HE31606009 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS620685			
Conn. Diag	EE7308K			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.9830	0.4800	2.5480	3.1190	48.0820



Speed - Torque Curve

