

# PRODUCT INFORMATION PACKET



Model No: B199746.00  
Catalog No: B199746.00  
General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,  
256TC Frame, DP



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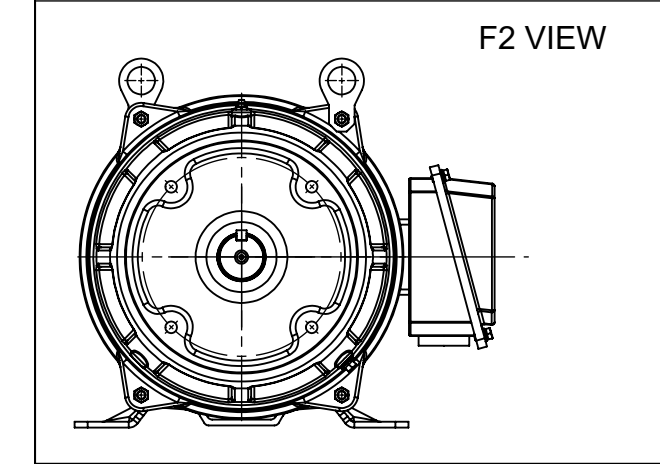
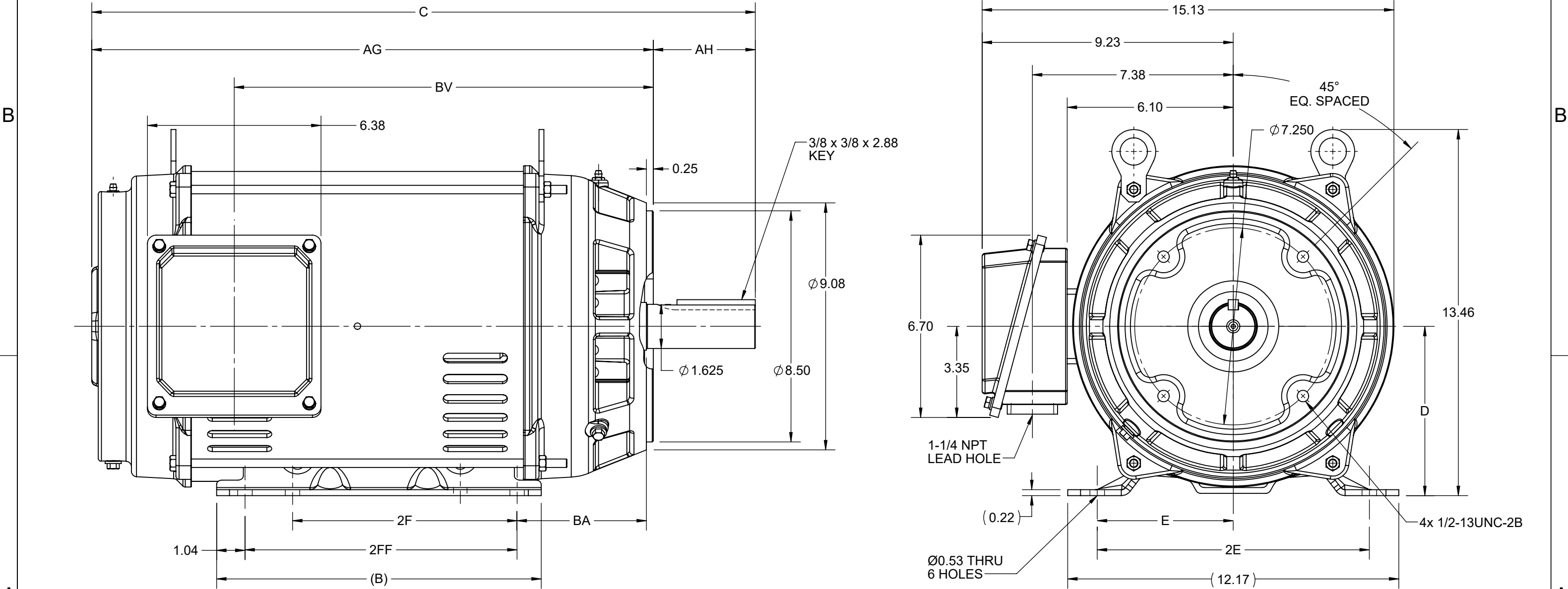
## Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	230/460 & 190/380 V
Speed	3556 & 2955 rpm	Service Factor	1.15 & 1.15
Frame	256TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91.7 & 91.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	59.5/29.7 & 58/29 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6209	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	2	Rotation	Reversible
Resistance Main	.4758 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	23.14 in
Frame Length	12.20 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308K	Outline Drawing	SS620708-256TC

4				3				2				1	
DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING	FRAME
100	11.93	22.81	6.25	5.00	10.00	8.25	10.00	19.06	3.75	4.75	13.82	F1 OR F2	254TC
200		24.38						20.63			15.40		256TC



DRAWING REVISION C	REVISION BY RAM	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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PRIMARY DIMENSIONS ARE INCH  
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DRAWN BY ZXW	 Regal Beloit America, Inc.	
DATE 25/02/2016		
APPROVED BY ZXW	DESCRIPTION <b>OUTLINE</b> 254/256TC FR NEMA ODP RS	
DATE 25/02/2016		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION 	SIZE <b>B</b>	DRAWING NUMBER <b>SS620708</b>
		SHEET 1 OF 1

LOW VOLTAGE

EE7308K

HIGH VOLTAGE

VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED			 <b>REGAL - BELOIT CORPORATION</b>	DRAWN PGK 06-04-1997		
NO.	REVISION	BY & DATE	CHK	ANG	± 7'30"		CHK	ML	06-05-1997
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.	INCHES				
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	±.1				
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	±.02	TITLE			
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	±.005	CONNECTION DIAGRAM			
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	±.0005	DELTA CON. - 3Ø - 9 LEADS			
						MAT'L.			
						FINISH			
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									E



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

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308K

CAT #: B199746.00

OUTLINE: SS620708

WINDING: HE31602016

NONE 2

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
25	18.7	3600	3556	256TC	DP	TDC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	59.5/29.7&58/29	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	91.7	3/4 LD EFF	92.1	1/2 LD EFF	91.4	GTD EFF		ELECT. TYPE	
F.L. PF	86.0	3/4 LD PF	81.0	1/2 LD PF	70.5	91.0		SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
37.0 LB-FT	175	70.0 LB-FT 189%	93.0 LB-FT 251%	55	

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA		1.30 LB-FT²	0 LB-FT²	15 SEC.	2	360 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	1045 HOT ROLLED (C-204)	ROLLED STEEL
6209 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
0.295	1111.32	0.898	0.752	22.249	0.080	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

B199746.00



Data @ 460 V

## Motor Load Data

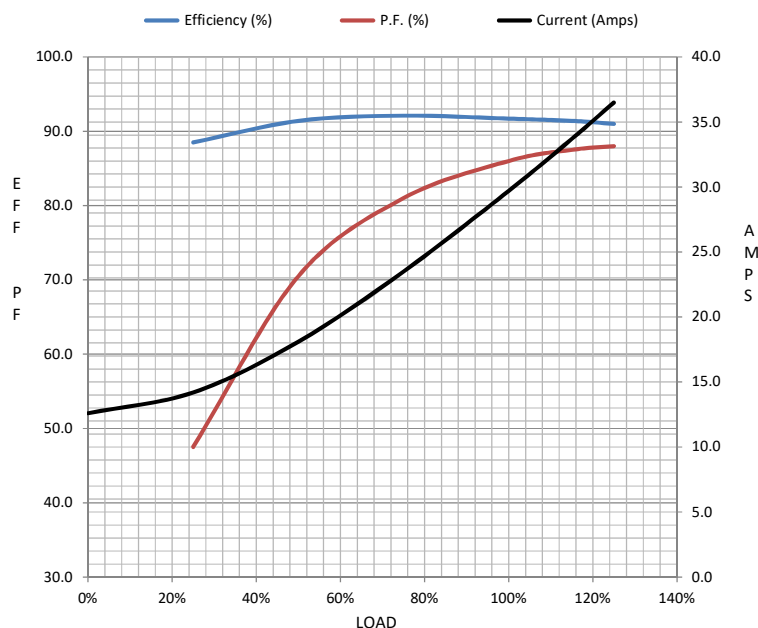
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.6	14.2	18.1	23.5	29.7	33.7	36.5	175	
Torque (ft-lb)	0.00	9.2	18.4	27.7	37.0	42.6	46.6	70.0	
RPM	3600	3590	3578	3568	3556	3,550	3545	0	
Efficiency (%)		88.5	91.4	92.1	91.7	91.4	91.0		
P.F. (%)	6.5	47.5	70.5	81.0	86.0	87.5	88.0	40.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3345	3556	3600
Current (Amps)	175	156	104	29.7	12.6
Torque (ft-lb)	70.0	59.0	93.0	37.0	0.00

## Information Block

HP	25.0			
Sync. RPM	3600			
Frame	256			
Enclosure	DP			
Construction	TDC			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	1.30	Lb-Ft²		
Ref Wdg	HE31602016 NONE			
Sound Pressure @ 1M	75	dBA		
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS620708			
Conn. Diag	A-EE7308K			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2950	1111.3200	0.8980	0.7520	22.2490



## Speed - Torque Curve

