

# PRODUCT INFORMATION PACKET



Model No: B199011.00

Catalog No: B199011.00

Ultimate e™ General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1200 & 1000 RPM, 254T Frame, TEFC



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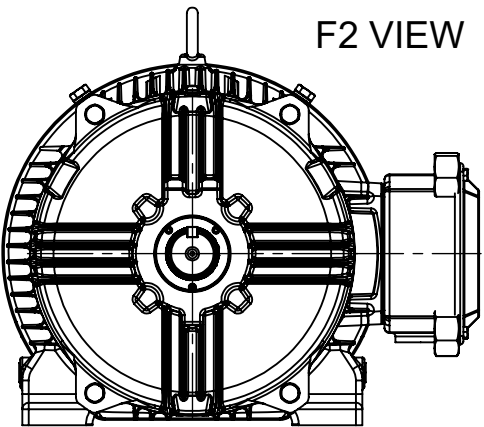
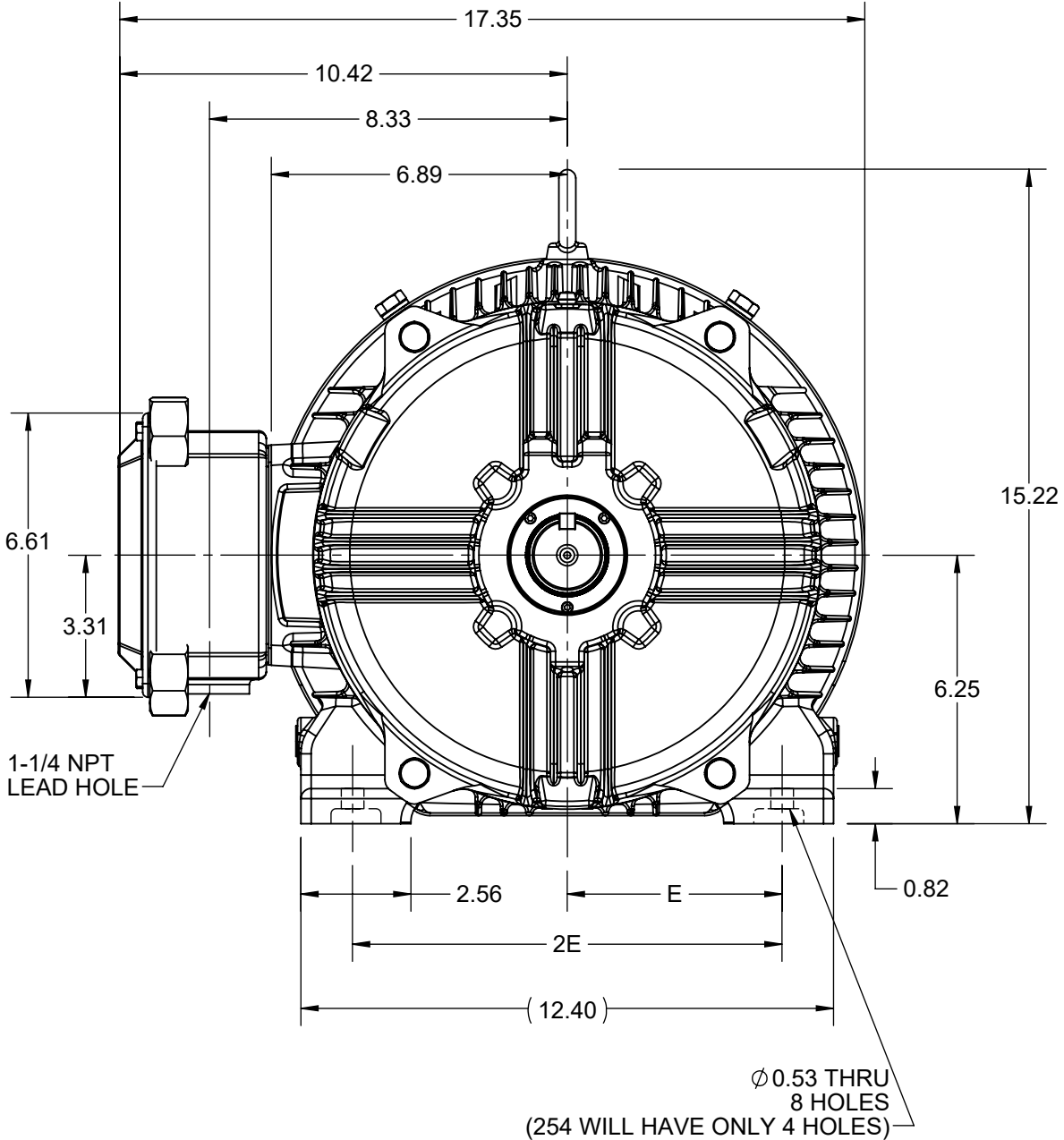
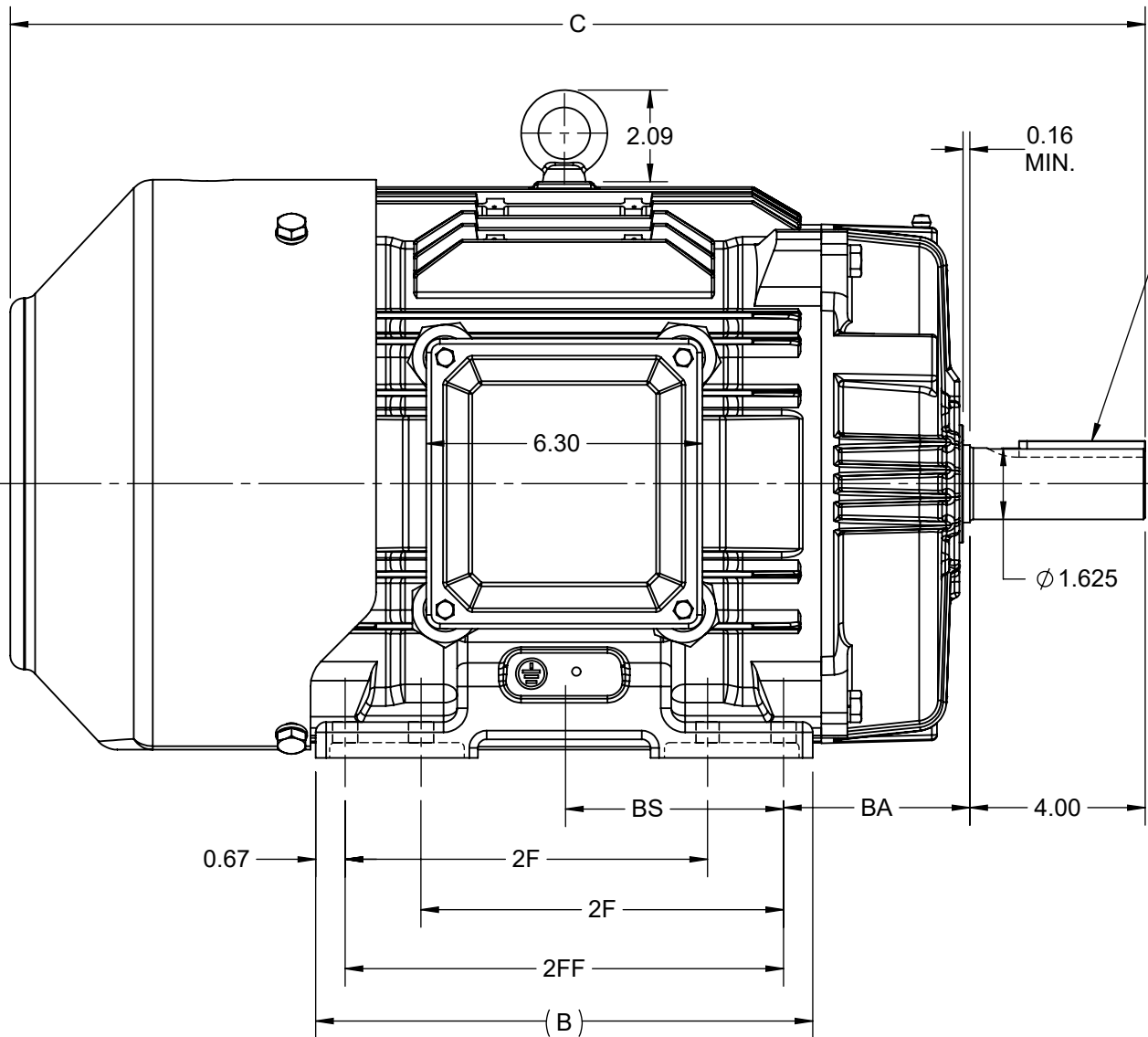
## Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	1182 & 985 rpm	Service Factor	1.15 & 1.15
Frame	254T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	19.8/9.9 & 17/8.5 A	Power Factor	78.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	Listed	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

## Technical Specifications



Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	1.366 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	24.15 in
Frame Length	10.00 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS620703-254T	Connection Drawing	EE7308K

4					3						
DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME	
100	9.60	24.15	5.00	10.00	-	8.25	4.25	4.13	F1 OR F2	254T	
200	11.34	25.89			8.25	10.00		5.00		254/256T	



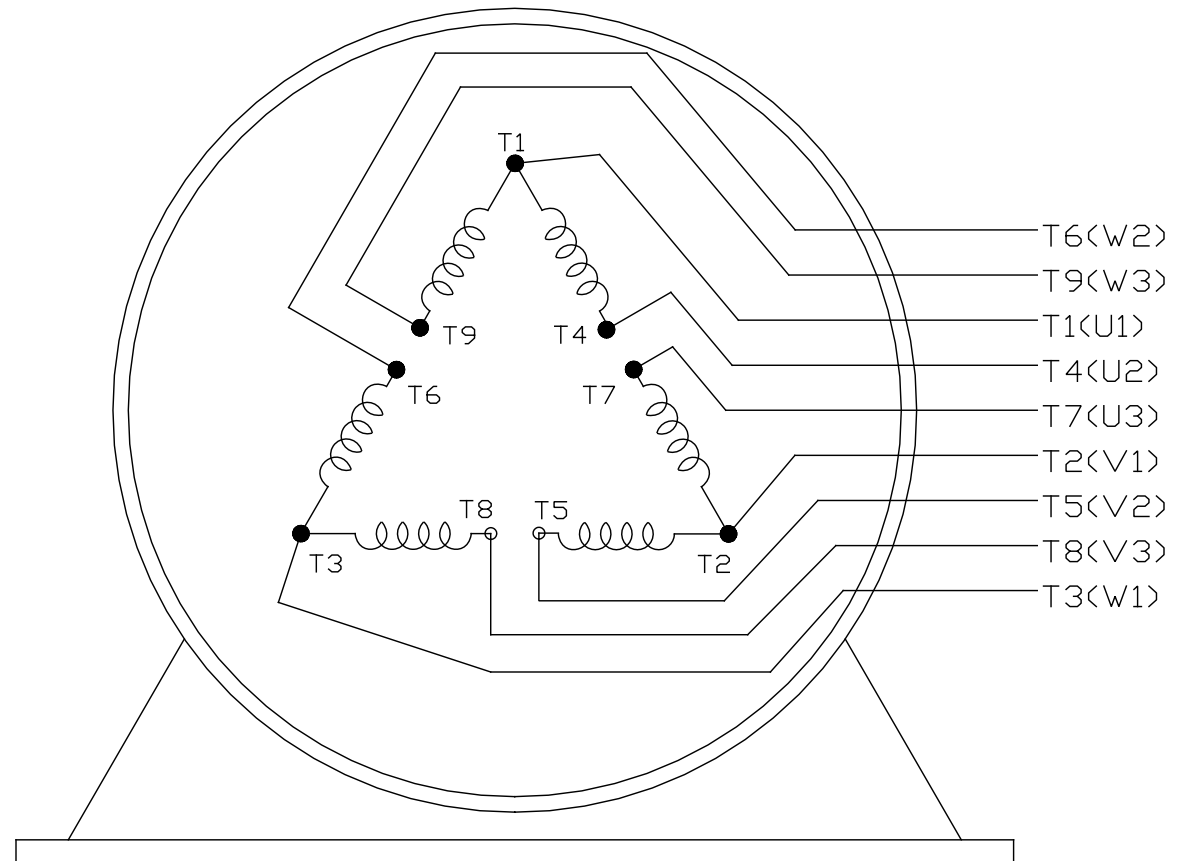
DRAWING REVISION D	REVISION BY SVP	REV DATE/© DATE 04/06/2021
ECO CR-0001991	APPROVED BY AK	DATE 04/06/2021
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DRAWN BY MR	 Regal Beloit America, Inc.		
DATE 4/5/2015			
APPROVED BY KRK	DESCRIPTION <b>OUTLINE</b> 254/256T FR-TEFC-CAST IRON		
DATE 4/5/2015			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION 	SIZE B	DRAWING NUMBER SS620703	SHEET 1 OF 1

LOW VOLTAGE

EE7308K

HIGH VOLTAGE

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN PGK 06-04-1997				
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.	INCHES		CHK	ML	06-05-1997		
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	±.1		APPD	GK	06-15-1997		
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	±.02		TITLE CONNECTION DIAGRAM		SCALE		
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	±.005		DELTA CON. - 3Ø - 9 LEADS		REF		
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	±.0005	MAT'L.		FMF			
NO.	REVISION	BY & DATE	CHK	ANG	± 7'30"	FINISH		PREV			
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P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308K  
OUTLINE: SS620703  
WINDING: HE31606007

CAT #: B199011.00

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	TEFC	TFC	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&17/8.5	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.0	1/2 LD EFF	89.5	GTD EFF	ELECT. TYPE
F.L. PF	78.5	3/4 LD PF	72.0	1/2 LD PF	60.0	90.2	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	65.0 LB-FT 195%	89.0 LB-FT 266%	40

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
56 dBA	65 dBA	2.30 LB-FT²	150 LB-FT²	20 SEC.	2	325 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	BLUE (ENAMEL)

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)	CAST IRON
6309 6209						

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
0.839	0.465	2.37	3.081	51.106	0.080	ODE

* N O T E S *		<b>INVERTER TORQUE: CONSTANT 20:1</b> <b>INV. HP SPEED RANGE: NONE</b>
	<b>ENCODER: NONE</b> NONE NONE	NONE PPR

DATE: 1/24/2018

**BRAKE: NONE**  
 NONE  
 NONE  
**FT-LB: NA**  
**VOLTAGE: NONE**  
**UL: Y-(LEESON UL REC)**  
**HZ:**

## Data Sheet

Date: 1/24/2018

B199011.00



Data @ 460 V

## Motor Load Data

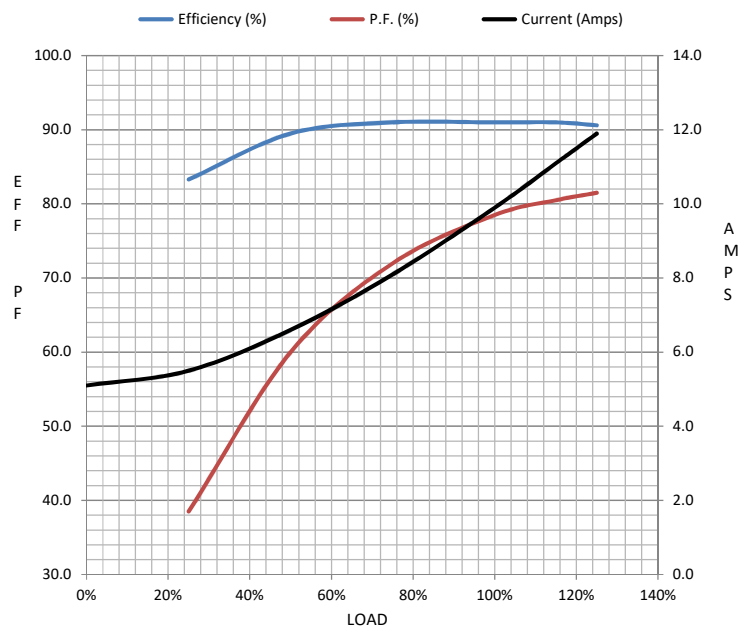
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.1	5.5	6.6	8.1	9.9	11.1	11.9	60.0	
Torque (ft-lb)	0.00	8.3	16.5	25.0	33.4	38.5	41.9	65.0	
RPM	1200	1195	1190	1185	1182	1,178	1175	0	
Efficiency (%)		83.3	89.5	91.0	91.0	91.0	90.6		
P.F. (%)	6.5	38.5	60.0	72.0	78.5	80.5	81.5	42.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1090	1182	1200
Current (Amps)	60.0	53.0	36.0	9.9	5.1
Torque (ft-lb)	65.0	55.0	89.0	33.4	0.00

## Information Block

HP	7.5			
Sync. RPM	1200			
Frame	254			
Enclosure	TEFC			
Construction	TFC			
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	2.30	Lb-Ft²		
Ref Wdg	HE31606007 NONE			
Sound Pressure @ 1M	56	dBA		
VFD Rating	CONSTANT 20:1			
Outline Dwg	SS620703			
Conn. Diag	EE7308K			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.8390	0.4650	2.3700	3.0810	51.1060



## Speed - Torque Curve

