

# PRODUCT INFORMATION PACKET



Model No: E115827.00

Catalog No: E115827.00

ecoSaver™ General Purpose Motor, 1 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,  
56HZ Frame, DP



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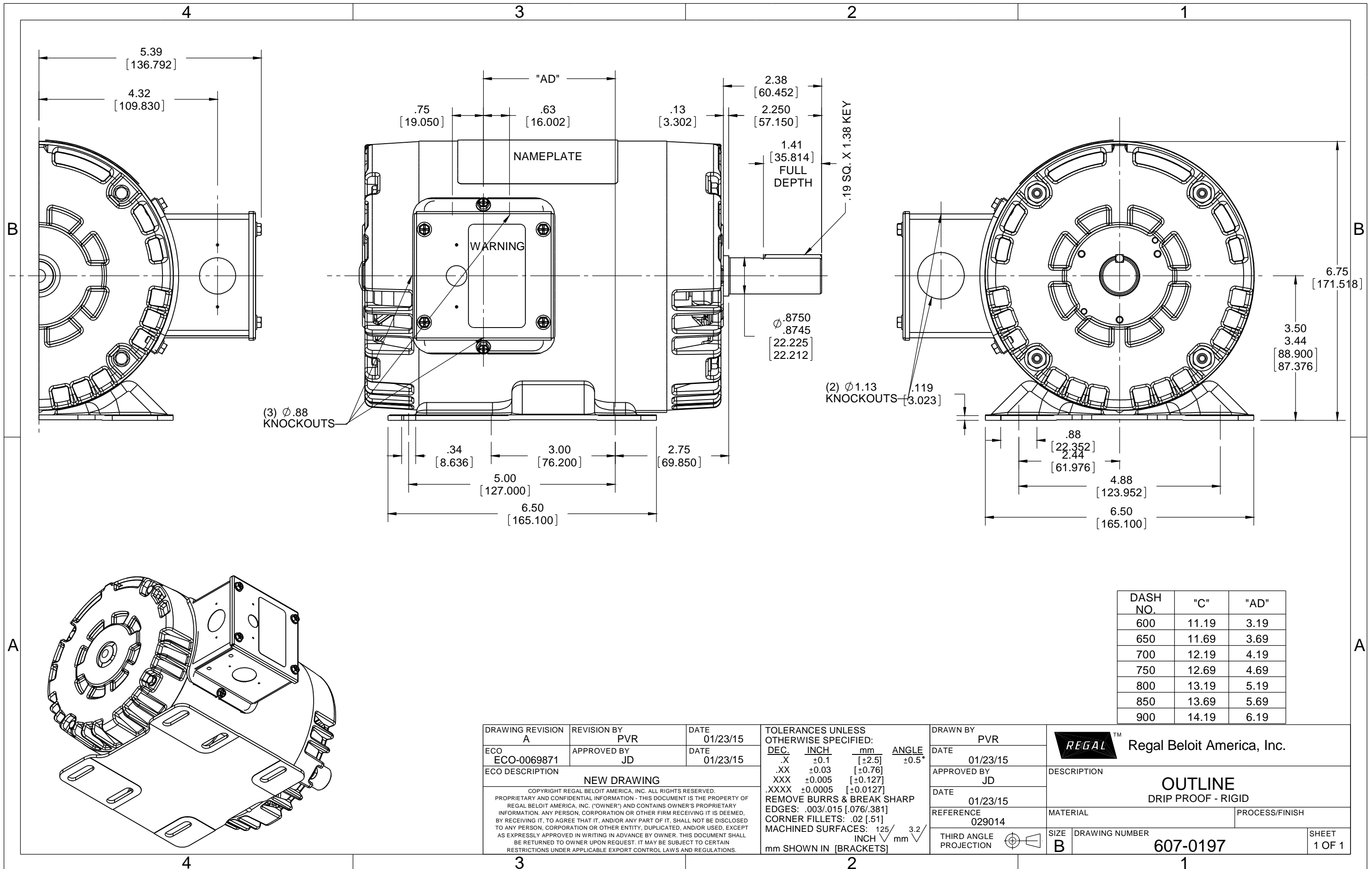
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>1 &amp; 1 Hp</b>
Output KW	<b>0.75 &amp; 0.75 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>1760 &amp; 1450 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>56HZ</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>Thermostat</b>	Efficiency	<b>83.5 &amp; 83.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>3.2/1.6 &amp; 3.6/1.8 A</b>	Power Factor	<b>68.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>N</b>
Drive End Bearing Size	<b>6205</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>22</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>3.24 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>NEMA 145T</b>	Overall Length	<b>12.19 in</b>
Frame Length	<b>7.00 in</b>	Shaft Diameter	<b>0.875 in</b>
Shaft Extension	<b>1.47 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Inverter Load	<b>CONSTANT 10:1</b>		
Outline Drawing	<b>607-0197-700</b>	Connection Drawing	<b>005010.20</b>

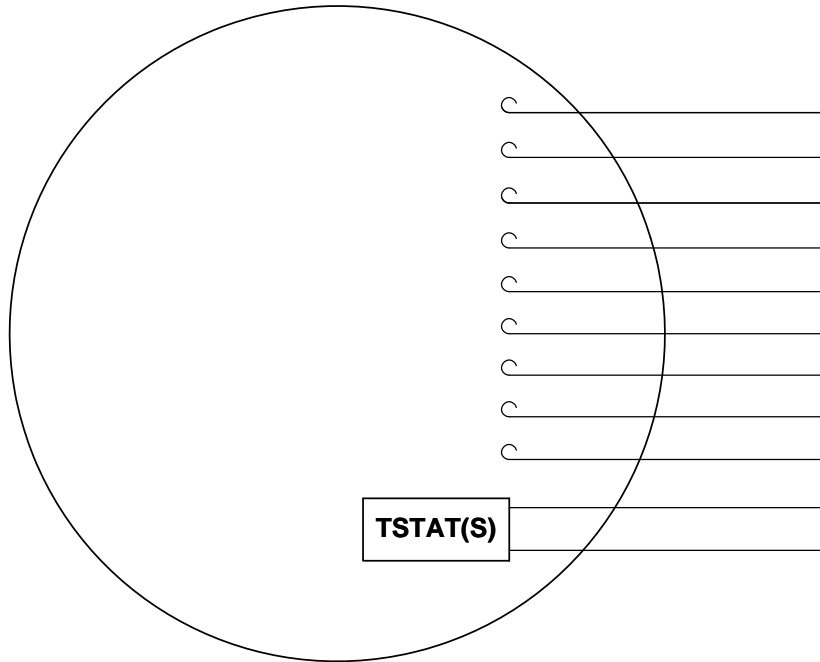




DASH NO.	"C"	"AD"
600	11.19	3.19
650	11.69	3.69
700	12.19	4.19
750	12.69	4.69
800	13.19	5.19
850	13.69	5.69
900	14.19	6.19

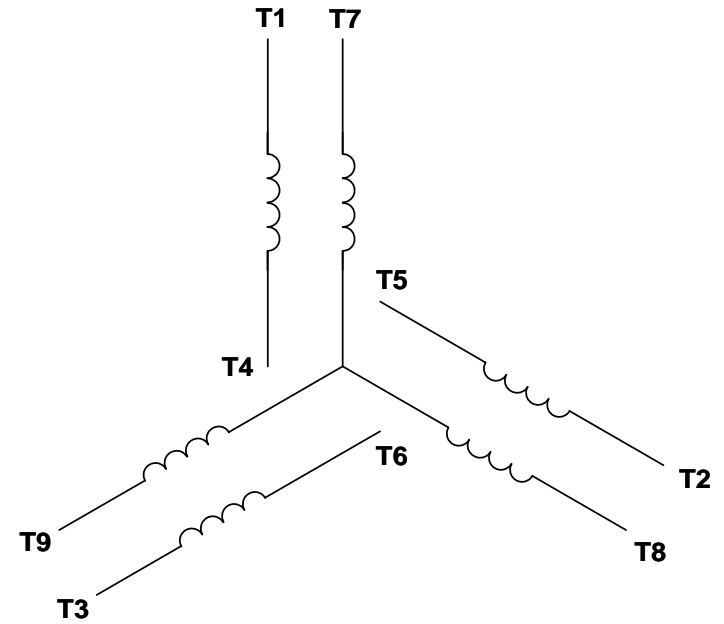
DRAWING REVISION A	REVISION BY PVR	DATE 01/23/15	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±0.5° .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] CORNER FILLETS: .02 [.51] MACHINED SURFACES: 125 INCH 3.2 mm mm SHOWN IN [BRACKETS]	DRAWN BY PVR	Regal Beloit America, Inc.  <b>OUTLINE</b> DRIP PROOF - RIGID
ECO ECO-0069871	APPROVED BY JD	DATE 01/23/15		DATE 01/23/15	
ECO DESCRIPTION NEW DRAWING			APPROVED BY JD	DESCRIPTION	
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			REFERENCE 029014	PROCESS/FINISH	SIZE B
			THIRD ANGLE PROJECTION	DRAWING NUMBER 607-0197	SHEET 1 OF 1

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END. Uncontrolled Copy



- T1
- T2
- T3
- T4
- T5
- T6
- T7
- T8
- T9
- RED(P1)
- RED(P2)

**LINE LEADS**



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

DRAWING REVISION **G** REVISION BY **MVG** DATE **04/05/2017**

ECO **ECO-0121253** APPROVED BY **SM** DATE **04/05/2017**

ECO DESCRIPTION **ADDED P1 & P2 FOR TSTAT**

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°  
CORNER FILLETS: R.02 [.51]  
MACHINED SURFACES: 125/3.2 INCH/mm  
mm SHOWN IN [BRACKETS]

DRAWN BY **DBT 12/16/97**

DATE

APPROVED BY **KH 12/17/97**

DATE

REFERENCE

THIRD ANGLE PROJECTION



DESCRIPTION **CONN DIAGRAM-EXTERNAL 3 PHASE WITH PROTECTOR**

MATERIAL **DECAL - 004014 (TSTAT) - 080582** PROCESS/FINISH **STOCK**

SIZE **A** DRAWING NUMBER **00501020** SHEET **1 OF 1**

P.O. BOX 8003  
 WAUSAU, WI 54401-8003  
 PH. 715-675-3311



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: 005010.20  
 OUTLINE: 607-0197-700  
 WINDING: T634342

CAT #: E115827.00

DR 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1	0.75	1800	1760	56HZ	DP	TDR	N	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	3.2/1.6&3/1.5	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	85.5	3/4 LD EFF	85.2	1/2 LD EFF	81.7	GTD EFF	84.0	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	68.5	3/4 LD PF	62.8	1/2 LD PF	48.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
2.98 LB-FT	14.5	12.0 LB-FT 403%	15.0 LB-FT 503%	21

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
0 dBA	9 dBA	0.12 LB-FT²	0.1 LB-FT²	10 SEC.	2	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	IN - LEESON WATTS

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	SGL SPL EXT	SPECIAL	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6205	6203						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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	0	0	0	0	0.080	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: 1.1 X BASE SPEED	
	ENCODER: NONE NONE NONE	
	NONE PPR	
	BRAKE: NONE NONE NONE	
	FT-LB: NA VOLTAGE: NONE HZ:	

DATE: 1/29/2018	UL: Y-(LEESON UL REC)
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Data Sheet

Date: 1/29/2018

E115827.00



Data @ 460 V

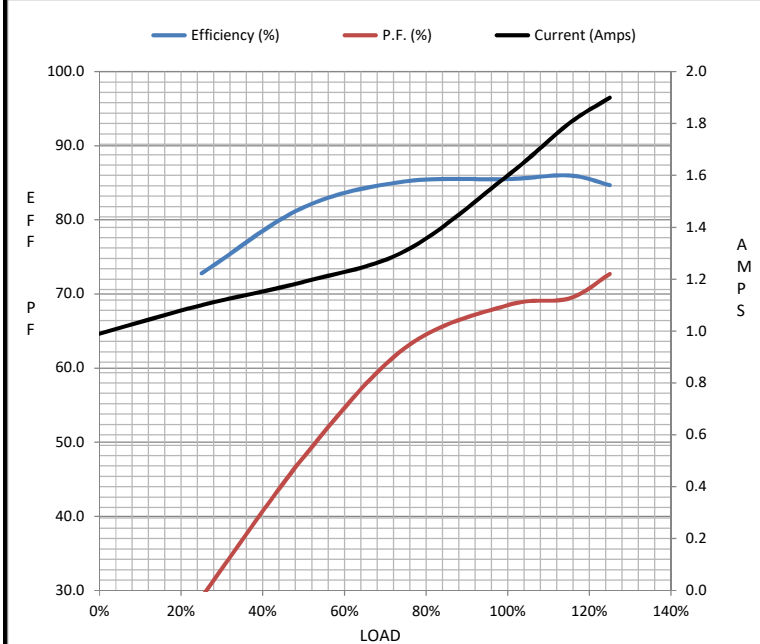
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.99	1.10	1.19	1.31	1.60	1.80	1.90	14.5
Torque (ft-lb)	0.00	0.73	1.47	2.22	2.98	3.4	3.8	12.0
RPM	1800	1791	1780	1770	1760	1.754	1749	0
Efficiency (%)		72.8	81.7	85.2	85.5	86.0	84.7	
P.F. (%)	8.2	29.1	48.0	62.8	68.5	69.4	72.7	0.0

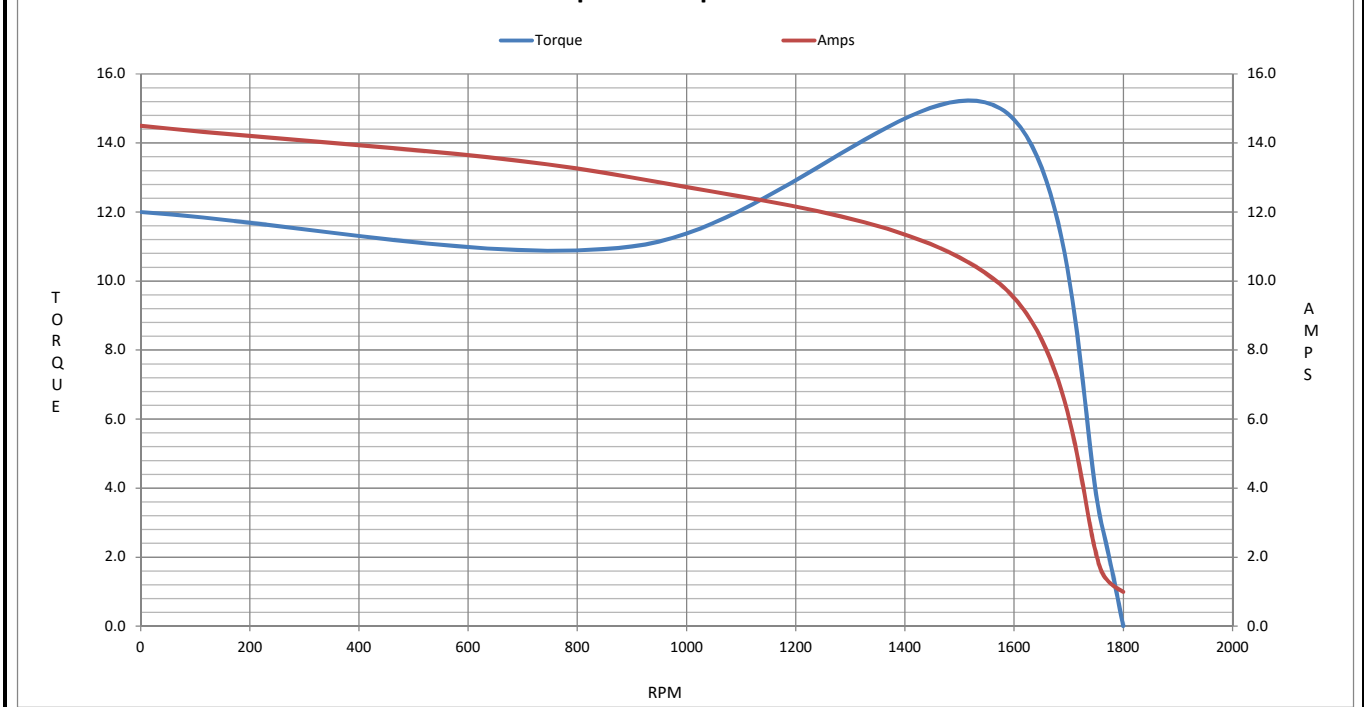
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1575	1760	1800
Current (Amps)	14.5	13.0	9.9	1.60	0.99
Torque (ft-lb)	12.0	11.0	15.0	2.98	0.00

Information Block				
HP	1.0			
Sync. RPM	1800			
Frame	140			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	21 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.12 Lb-Ft <sup>2</sup>			
Ref Wdg	T634342 DR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	607-0197-700			
Conn. Diag	005010.20			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : E115827.00

(Model No. may contain prefix and/or suffix characters)

Catalog No : E115827.00

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**