

# PRODUCT INFORMATION PACKET



Model No: 121881.00

Catalog No: 121881.00

Extreme Duck® Ultra General Purpose Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
3600 & 3000 RPM, 145TC Frame, TEFC

**Operational at 208-230/460 V @60HZ**



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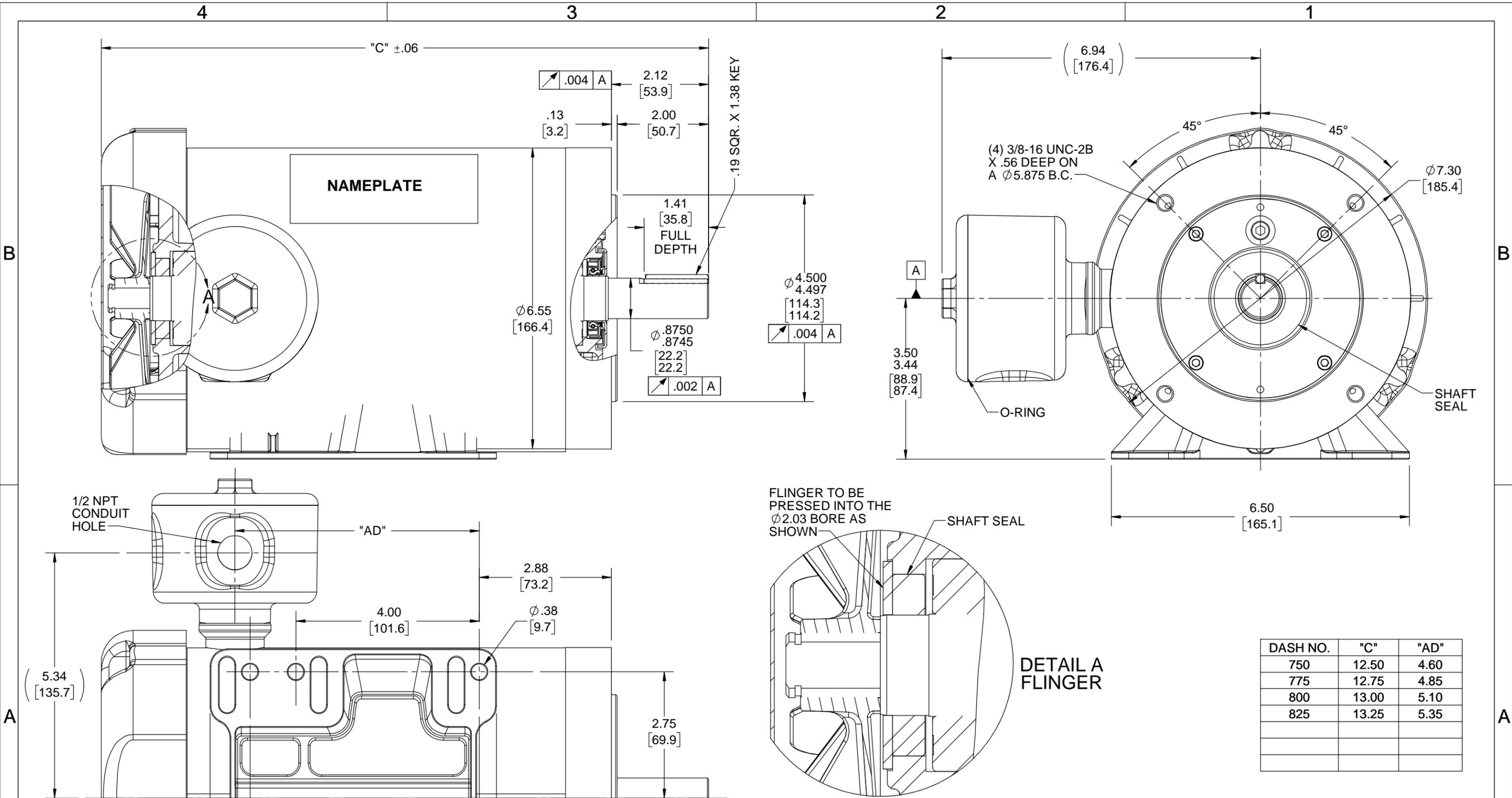


### Nameplate Specifications

Phase	3	Output HP	2 & 1.50 Hp
Output KW	1.5 & 1.1 kW	Voltage	230/460 & 190/380 V
Speed	3490 & 2900 rpm	Service Factor	1.15 & 1.15
Frame	145TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	85.5 & 85.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	4.8/2.4 & 5.8/2.9 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	69
Number of Speeds	1		

### Technical Specifications

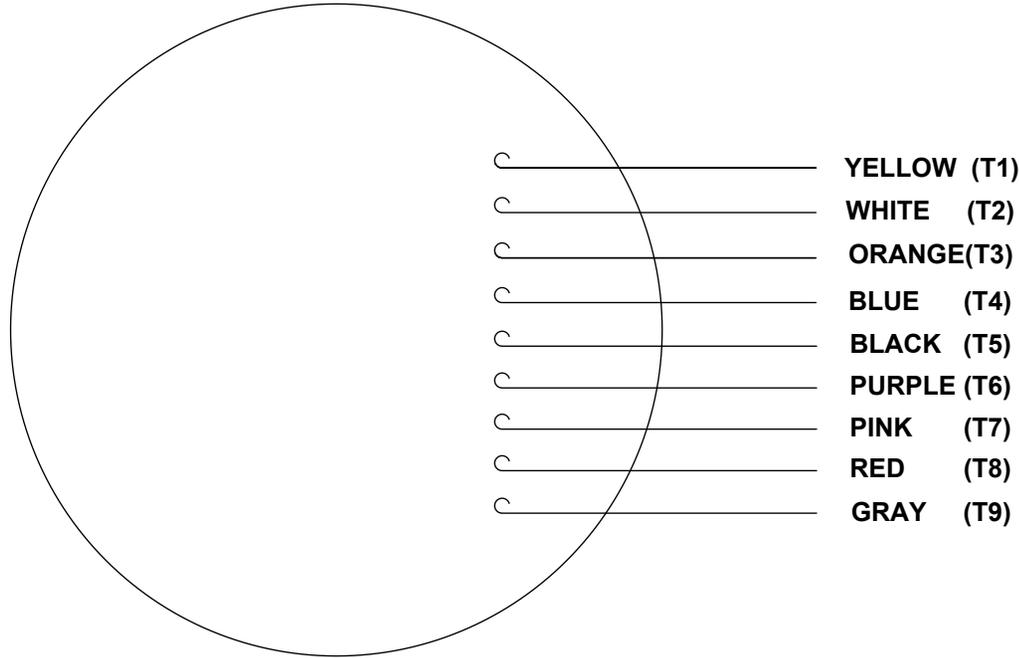
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	6.4 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Stainless Steel
Shaft Type	T	Overall Length	12.75 in
Frame Length	7.75 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	607-0401-775	Connection Drawing	005010.52



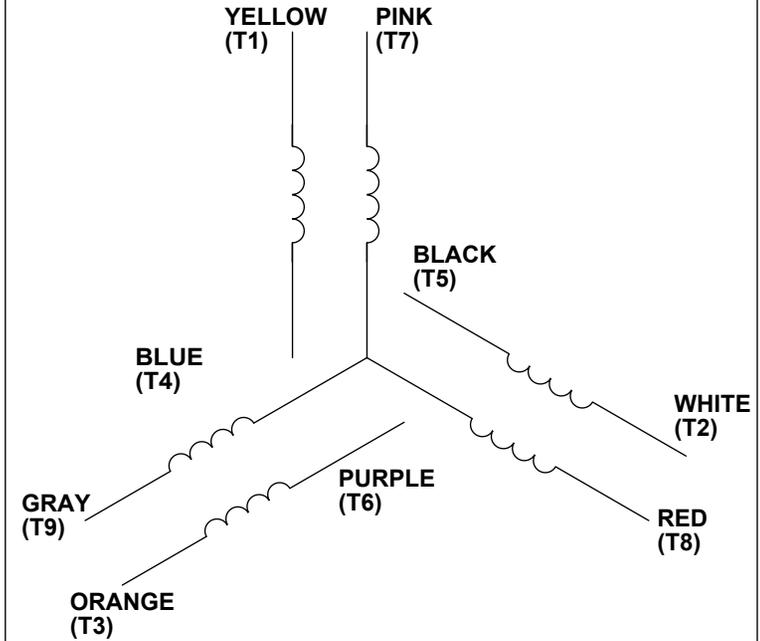
DASH NO.	"C"	"AD"
750	12.50	4.60
775	12.75	4.85
800	13.00	5.10
825	13.25	5.35

DRAWING REVISION A	REVISION BY	REV DATE/© DATE	TOLERANCES (EXCEPT AS NOTED):	DRAWN BY LST	Regal Beloit America, Inc.
ECO ECO-0179751	APPROVED BY	DATE	DEC. INCH mm ANGLE	DATE 1/9/20	
ECO DESCRIPTION			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°	APPROVED BY	DESCRIPTION
RELEASED			CORNER FILLETS: R.02 [.5]	DATE	OUTLINE
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			mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	THIRD ANGLE PROJECTION	MATERIAL
				SIZE B	PROCESS/FINISH
				DRAWING NUMBER 607-0401	
				SHEET 1 OF 1	

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



## 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

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DRAWING REVISION <b>C</b>	REVISION BY <b>PVR</b>	DATE <b>04/23/14</b>	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY <b>LST</b>	<b>Regal Beloit America, Inc.</b>
ECO <b>ECO-0049985</b>	APPROVED BY <b>JD</b>	DATE <b>04/23/14</b>	DEC. $\pm 0.1$ [±2.5]	INCH $\pm 0.01$ [±0.25]	DATE <b>4/3/14</b>	
ECO DESCRIPTION <b>UPDATED PER ECO-0049985</b>			ANGLE $\pm 0.5^\circ$	XXX $\pm 0.005$ [±0.127]	APPROVED BY	DESCRIPTION <b>LEAD ASSY EXT. WIRING DIA. 3 PH. W/O PROT.</b>
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>			.XXXX $\pm 0.0005$ [±0.0127]	REMOVE BURRS & BREAK SHARP	DATE	MATERIAL
			EDGES: .003/.015 [.076/.381]	CORNER FILLETS: .02 [.51]	MACHINED SURFACES: $\frac{125}{\text{INCH}} \sqrt{\frac{3.2}{\text{mm}}}$	PROCESS/FINISH
			mm SHOWN IN [BRACKETS]			SHEET <b>1 OF 1</b>



**1051 CHEYENNE AVE.  
GRAFTON, WI 53024  
PH. 262-377-8810**

**CERTIFICATION DATA SHEET**

CATALOG #: 121881.00

CONN. DIAGRAM: 005010.52

OUTLINE: 029048-775

MOUNTING: F1 ONLY

WINDING #: T632174 FR 3 P

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2&1 1/2	1.49&1.12	3600	3490&2900	145TC	TEFC	L	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	4.8/2.4&5.8/2.9	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40

FULL LOAD EFF:	85.5&85.5	3/4 LOAD EFF:	86.7	1/2 LOAD EFF:	85.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	88&86	3/4 LOAD PF:	82.1	1/2 LOAD PF:	72.2	0	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	52 / 26	10.8 LB-FT 360 %	13 LB-FT 433 %	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.08 LB-FT^2	0.1 LB-FT^2	10 SEC.	0	0 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	303 STAINLESS (C-501)	ROLLED STEEL
6205	6205						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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<b>INVERTER TORQUE:</b> NONE
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE
NONE NONE
NONE NONE PPR
<b>BRAKE:</b> NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/24/2018

121881.00



Data @ 460 V

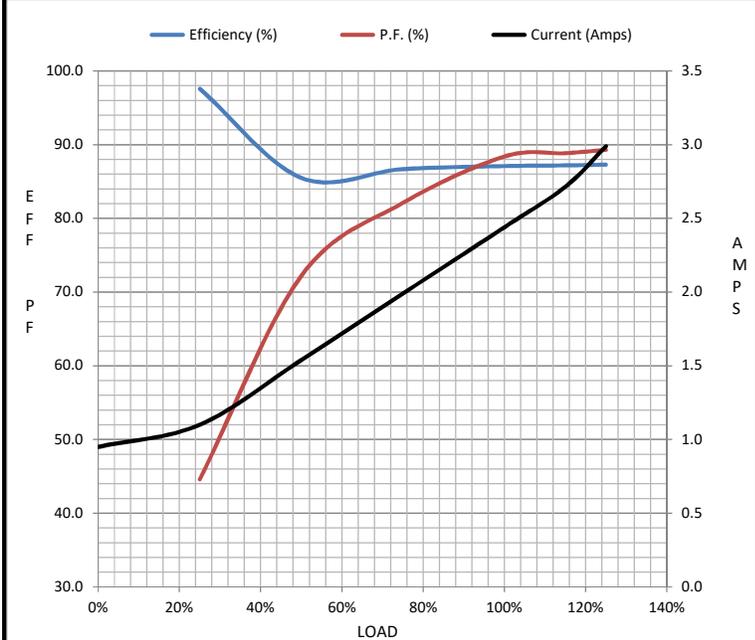
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.95	1.10	1.54	1.99	2.44	2.72	2.99	26.0
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.4	3.8	10.8
RPM	3600	3581	3555	3533	3511	3,501	3487	0
Efficiency (%)		97.6	85.5	86.7	87.1	87.2	87.3	
P.F. (%)	16.8	44.6	72.2	82.1	88.4	88.9	89.3	0.0

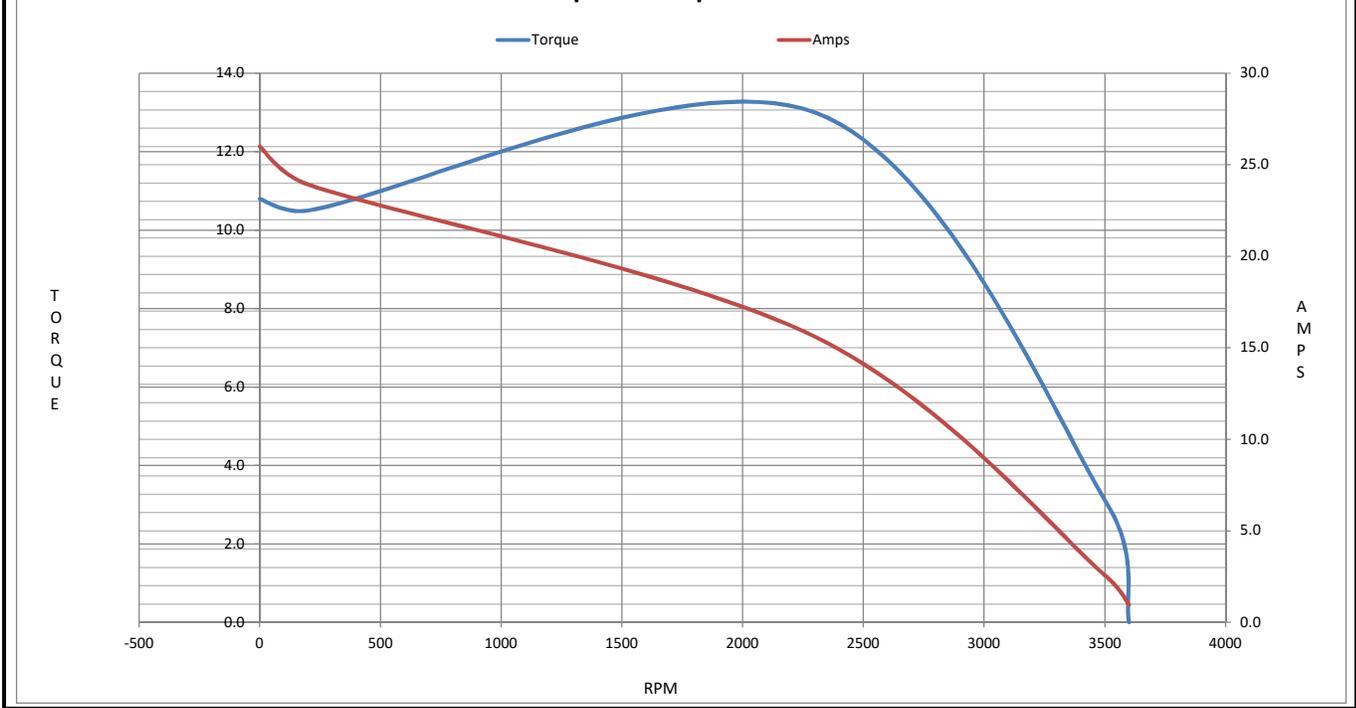
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	200	2300	3511	3600
Current (Amps)	26.0	23.9	15.6	2.44	0.95
Torque (ft-lb)	10.8	10.5	13.0	3.0	0.00

Information Block				
HP	2.0			
Sync. RPM	3600			
Frame	140			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	46 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.08 Lb-Ft <sup>2</sup>			
Ref Wdg	T632174 FR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	NONE			
Outline Dwg	029048-775			
Conn. Diag	005010.52			
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  
1946 West Cook Road  
Fort Wayne, IN 46818

and the authorized representative  
established within the Community:

Regal Beloit Italy  
Via Modena, 18  
24040 Ciserano(BG) - Italy

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 : 121881.00

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

Catalog No : 121881.00

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:



Zach Stauffer  
Vice President, Engineering

Authorized Representative in the Community:



Stefano Casiraghi  
Technology Director, Engineering

Created on 07/08/2025

**CE 25**