

PRODUCT INFORMATION PACKET



Model No: 121910.00

Catalog No: 121910.00

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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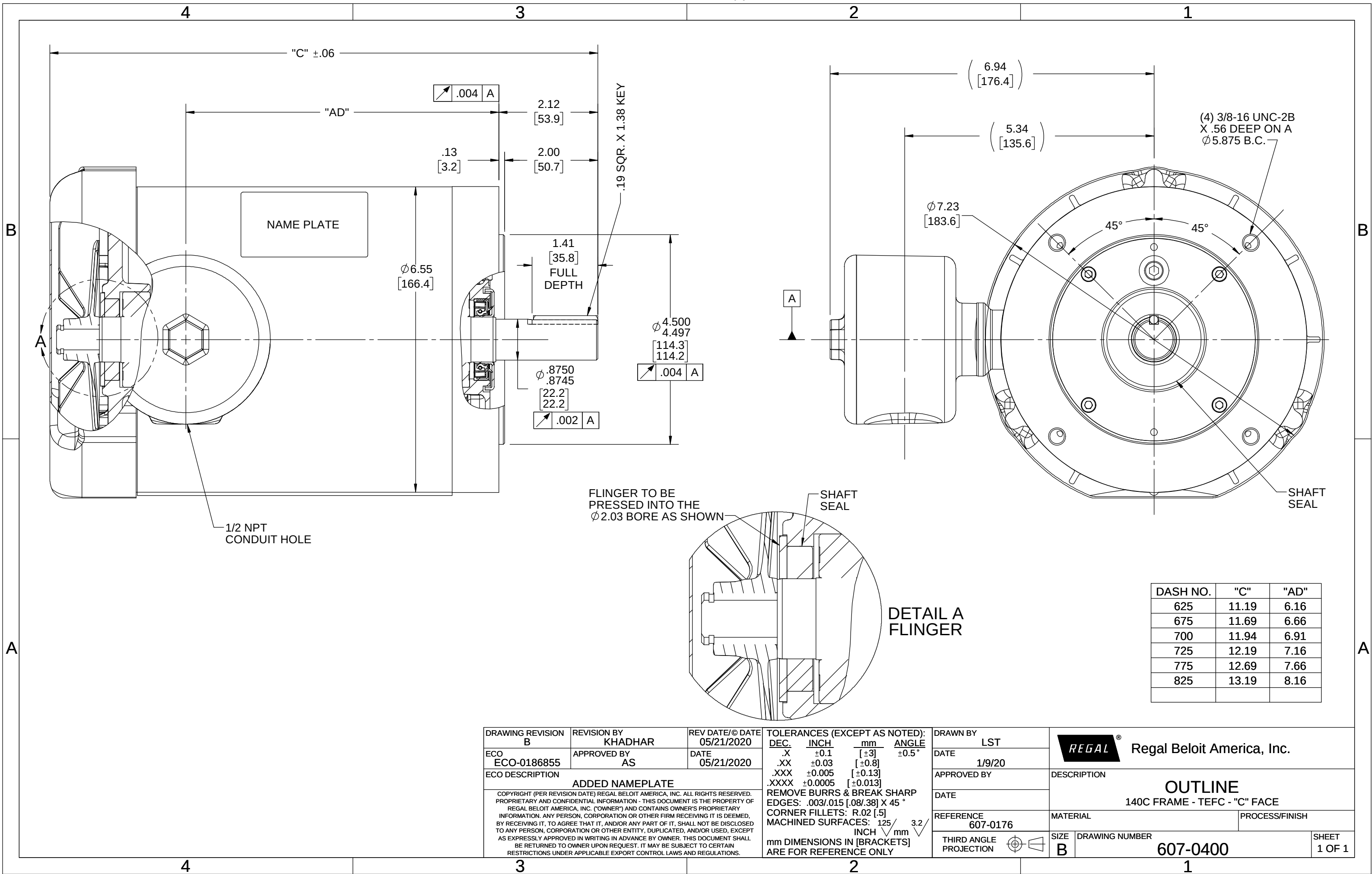


Nameplate Specifications

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		

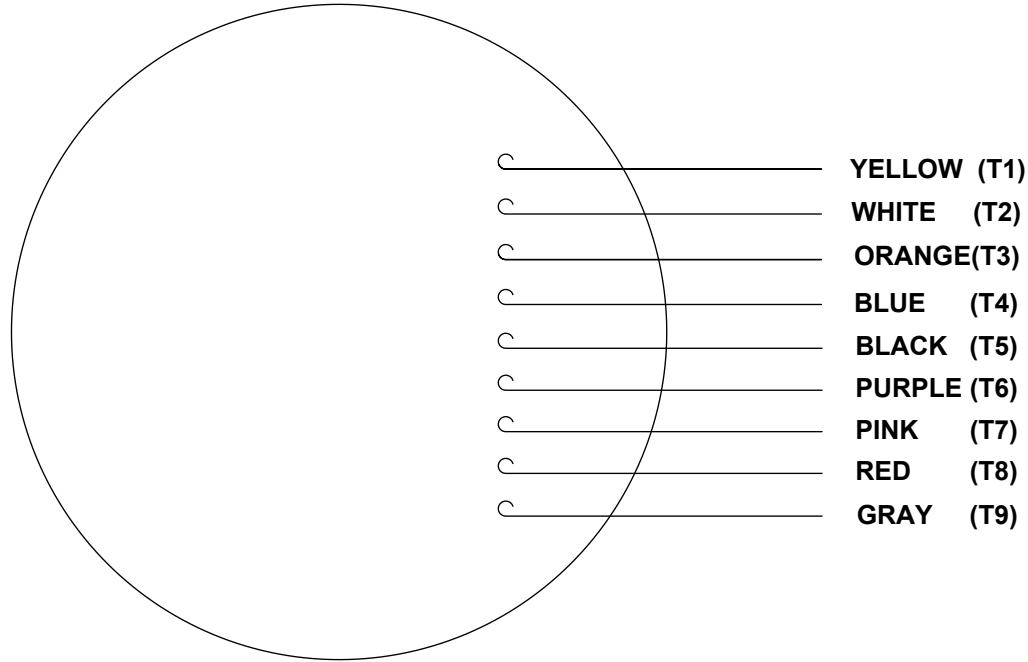
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	6.4 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Stainless Steel
Shaft Type	T	Overall Length	12.69 in
Frame Length	7.75 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	607-0400-775	Connection Drawing	005010.52

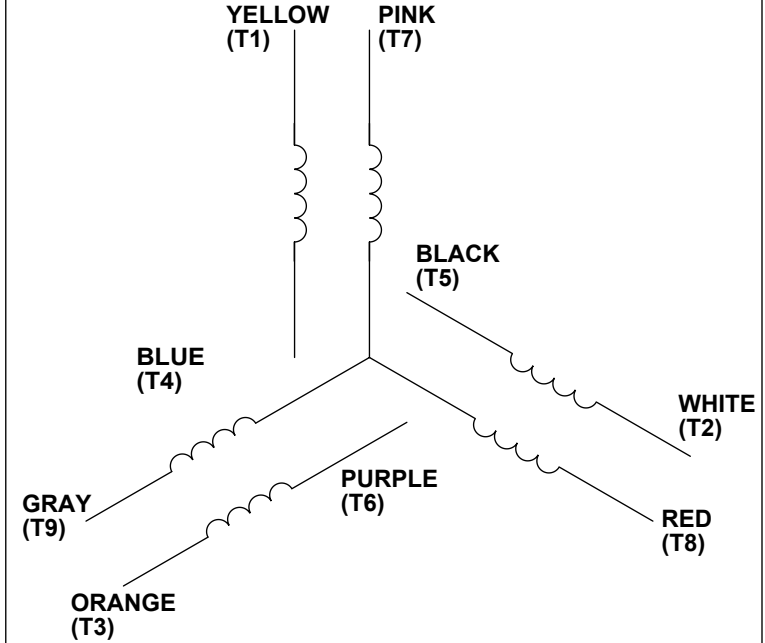


DRAWING REVISION B	REVISION BY KHADHAR	REV DATE/© DATE 05/21/2020	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ± 0.1 [± 3] $\pm 0.5^\circ$.XX ± 0.03 [± 0.8] .XXX ± 0.005 [± 0.13] .XXXX ± 0.0005 [± 0.013] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 125/ INCH 3.2/ mm mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY				DRAWN BY LST	REGAL[®] Regal Beloit America, Inc.		
ECO ECO-0186855	APPROVED BY AS	DATE 05/21/2020					DATE 1/9/20			
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			THIRD ANGLE PROJECTION				DATE	MATERIAL	PROCESS/FINISH	
							SIZE B	DRAWING NUMBER 607-0400	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 C	REVISION BY PVR	DATE 04/23/14	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] CORNER FILLETS: .02 [.51] MACHINED SURFACES: 125/ 3.2/ INCH mm mm SHOWN IN [BRACKETS]		DRAWN BY LST	 Regal ™ Regal Beloit America, Inc.		
ECO ECO-0049985	APPROVED BY JD	DATE 04/23/14			DATE 4/3/14			
ECO DESCRIPTION UPDATED PER ECO-0049985			APPROVED BY			DESCRIPTION LEAD ASSY EXT. WIRING DIA. 3 PH. W/O PROT.		
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			PROCESS/FINISH			SIZE A		
			THIRD ANGLE PROJECTION 			DRAWING NUMBER 00501052		
						SHEET 1 OF 1		



CERTIFICATION DATA SHEET

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

CATALOG #: 121910.00

CONN. DIAGRAM: 005010.52

OUTLINE: 607-0176-775

MOUNTING: F1 ONLY

WINDING #: T632174 FR 3 D

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	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	WHITE - LEESON (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL						
6205	6205	POLYREX EM	T	NONE	NONE	303 STAINLESS	ROLLED STEEL

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

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

Data Sheet

Date: 1/23/2018

121910.00



Data @ 460 V

Motor Load Data

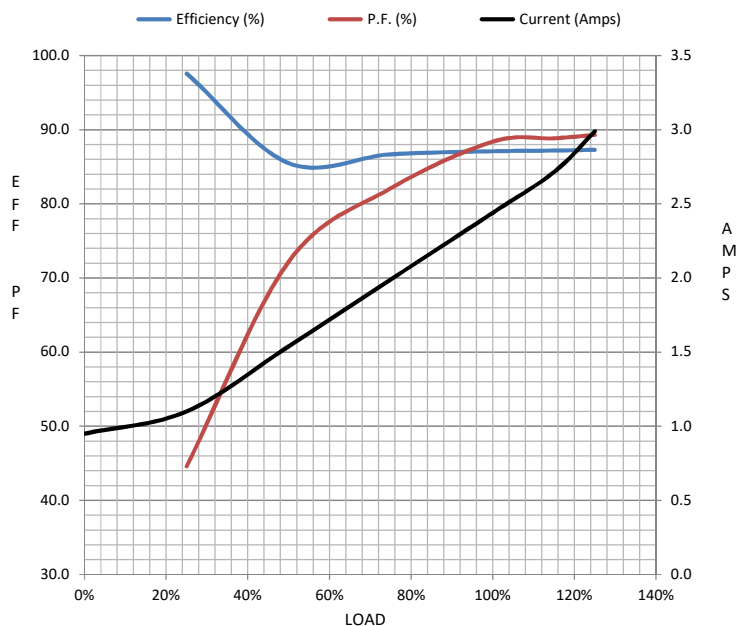
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	0.95	1.10	1.54	1.99	2.44	2.72	2.99	26.0	
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.4	3.8	10.8	
RPM	3600	3581	3555	3533	3511	3,501	3487	0	
Efficiency (%)		97.6	85.5	86.7	87.1	87.2	87.3		
P.F. (%)	16.8	44.6	72.2	82.1	88.4	88.9	89.3	0.0	

Motor Speed Data

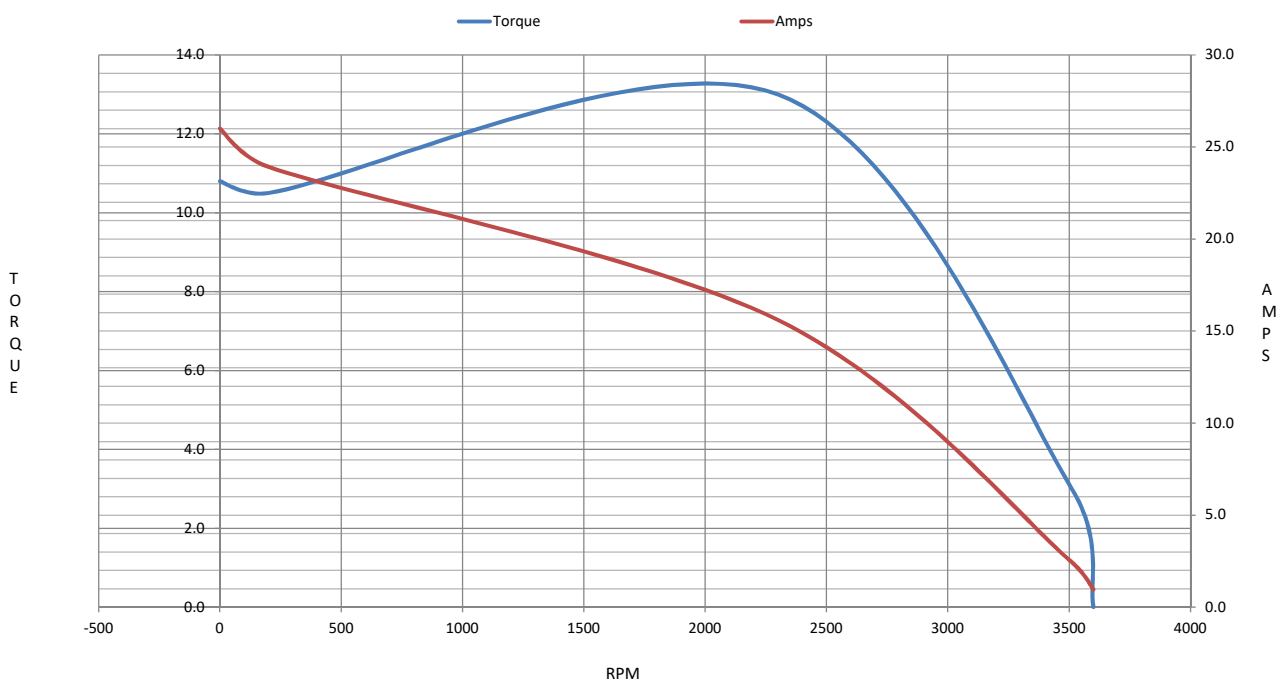
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	200	2300	3511	3600
Current (Amps)	26.0	23.9	15.6	2.44	0.95
Torque (ft-lb)	10.8	10.5	13.0	3.0	0.00

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 ²	0.08	Lb-Ft ²		
Ref Wdg	T632174 FR			
Sound Pressure @ 1M	0	dBA		
VFD Rating	NONE			
Outline Dwg	607-0176-775			
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 : 121910.00

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

Catalog No : 121910.00

Rework No : N/A

Directives :

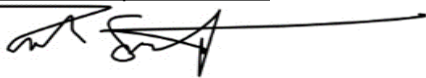
Low Voltage Directive 2014/35/EU

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