

PRODUCT INFORMATION PACKET



Model No: 117281.00

Catalog No: 117281.00

Premium Duck™ General Purpose Motor, 1 & 0.75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 56C Frame, TENV

Operational at 208-230/460 V @60HZ



Regal and LEESON are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2025 Regal Rexnord Corporation, All Rights Reserved. MC017097E





Nameplate Specifications

Phase	3	Output HP	1 & 0.75 Hp
Output KW	0.75 & 0.56 kW	Voltage	230/460 & 190/380 V
Speed	3450 & 2850 rpm	Service Factor	1.15 & 1.15
Frame	56C	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Efficiency	85.5 & 82.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	2.6/1.3 & 2.4/1.2 A	Power Factor	85
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	56
Number of Speeds	1		

Technical Specifications

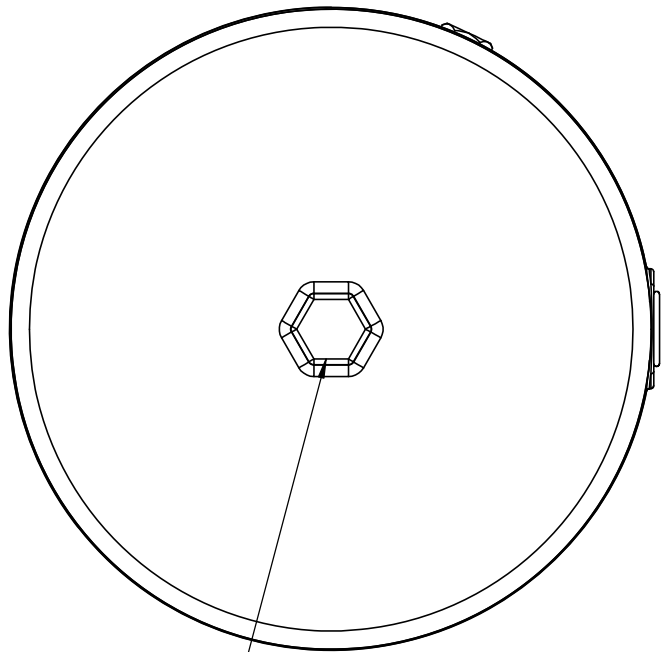
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	13.15 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Stainless Steel
Shaft Type	NEMA 56	Overall Length	12.22 in
Frame Length	7.00 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 6:1		
Outline Drawing	028942-700	Connection Drawing	005010.01

B

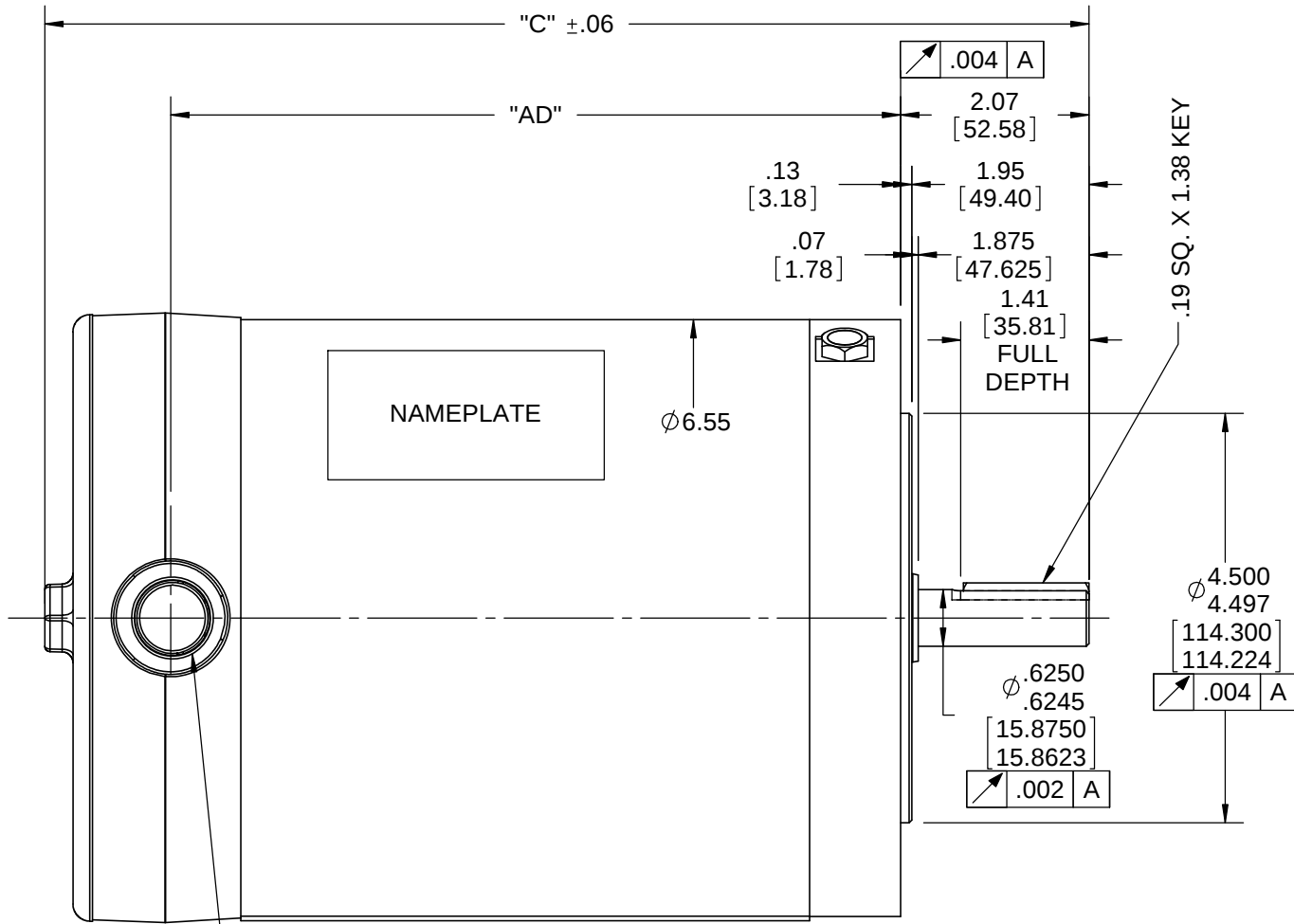
B

A

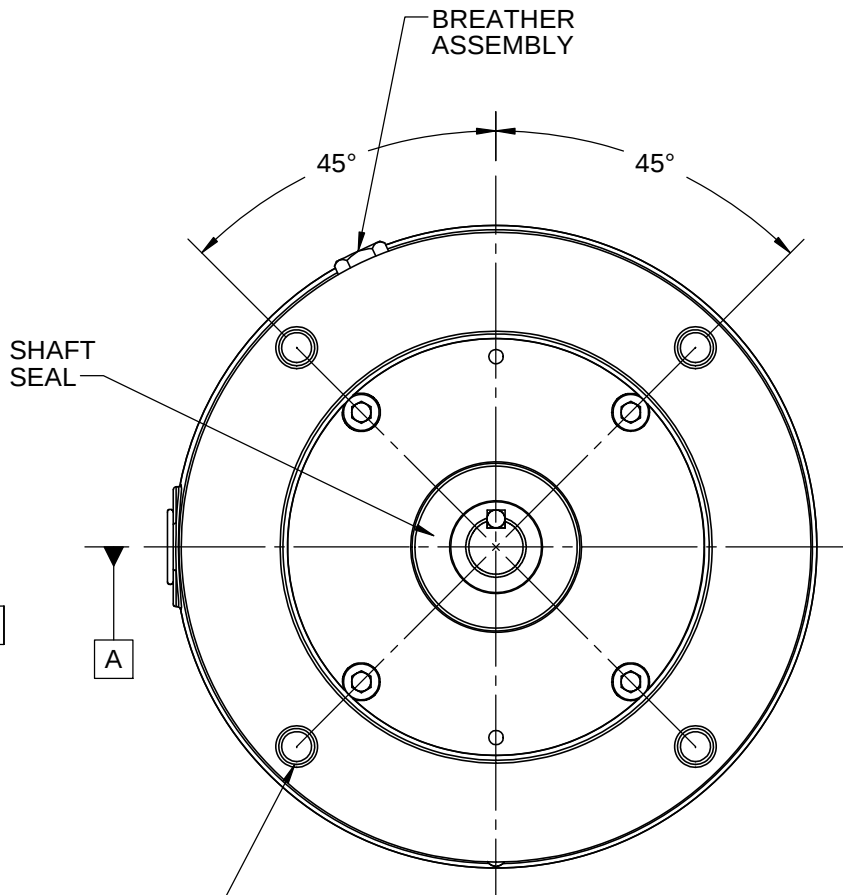
A



3/4" HEX DRIVER
FOR COVER REMOVAL



1/2-14 NPT CONDUIT
HOLE (PLUGGED)

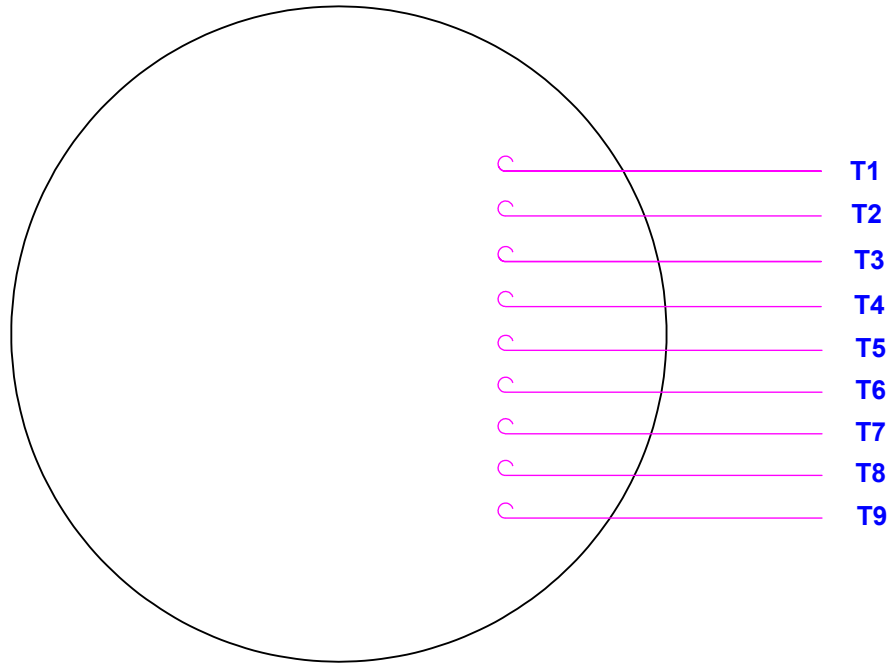


(4) 3/8-16 UNC-2B X .56
DEEP ON A Ø5.875 B.C.

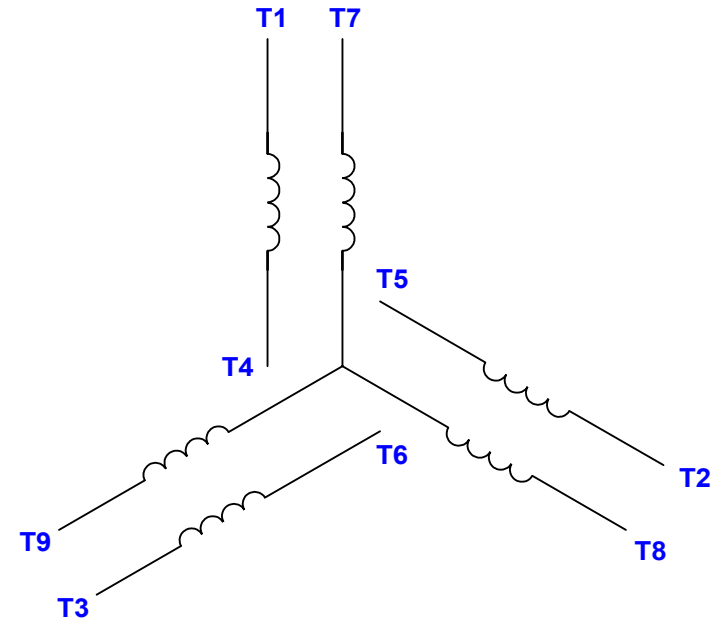
DASH NO.	"C"	"AD"
525	10.47	7.00
550	10.72	7.25
575	10.97	7.50
600	11.22	7.75
625	11.47	8.00
650	11.72	8.25
675	11.97	8.50
700	12.22	8.75
750	12.72	9.25
800	13.22	9.75

DRAWING REVISION D	REVISION BY AS	DATE 05/04/2017	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±7° 30" .XX ±0.03 [±0.76] .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: 200 INCH 5.1 mm mm SHOWN IN [BRACKETS]	DRAWN BY LST 1/9/09		 Regal Beloit America, Inc.			
ECO ECO-0123079	APPROVED BY JD	DATE 05/04/2017		DATE	DESCRIPTION OUTLINE TENV ROUND "C" FACE				
ECO DESCRIPTION ADDED ITEM # 800 & PLUGGED CONDUIT HOLE 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.				APPROVED BY					
				DATE					
				REFERENCE	MATERIAL		PROCESS/FINISH		
			THIRD ANGLE PROJECTION		SIZE B	DRAWING NUMBER 028942		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

RBC PROPRIETARY AND CONFIDENTIAL INFORMATION
This document is the property of REGAL BELOIT CORPORATION ("RBC") including its subsidiaries and divisions and contains proprietary information of RBC. This document is loaned on the express condition that neither it nor the information contained therein shall be disclosed to others without the express written consent of RBC, and that the information shall be used by the recipient only as approved expressly by RBC. This document shall be returned to RBC upon its request. This document may be subject to certain restrictions under U.S. export control laws and regulations.

				TOLERANCES UNLESS SPECIFIED			DRAWN RDW 04/12/02	
				DEC	INCHES		CHK	
				.X	±.1		APPR	
12	CHG FROM LEESON TO RRX TEMPLATE AS PER ECR-0237142	KVDG 09/19/24	DS	.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR MAT'L DECAL - 004014	SCALE 1:1	
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11		.XXX	±.005		REF FIG. 2-51	
11	ADD REV TO MATCH ORACLE	KJH 06/08/09	MDN	.XXXX	±.0005		FMF	
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PAGE OF	
THIRD ANGLE PROJECTION			RFP	04/12/02	PREV	SIZE A	DRAWING NO 005010-01	
			NETWORK FILE NAME 00501001				REV 12	



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.01

CAT #: 117281.00

OUTLINE: 028942-700

WINDING: T632233

NR 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1	0.75	3600	3503	56C	TENV	NA	L	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	2.55/1.3&2.4/1.2	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	84.5	3/4 LD EFF	83.0	1/2 LD EFF	79.5	GTD EFF		ELECT. TYPE	
F.L. PF	86.6	3/4 LD PF	81.9	1/2 LD PF	73.8		0.0	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
384 LB-FT	12.2	1,253 LB-FT 326%	1,783 LB-FT 464%	98	

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	0.07 LB-FT²	0 LB-FT²	10 SEC.	0	0 LB.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	STANDARD 56	NONE	NONE	303 STAINLESS (C-501)	STAINLESS STEEL
6205 6205						

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	0	0	0	0	0.150	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 6:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 1/24/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA VOLTAGE: NONE	HZ:
	UL: Y-(LEESON UL REC)	

Data Sheet

Date: 1/24/2018

117281.00



Data @ 460 V

Motor Load Data

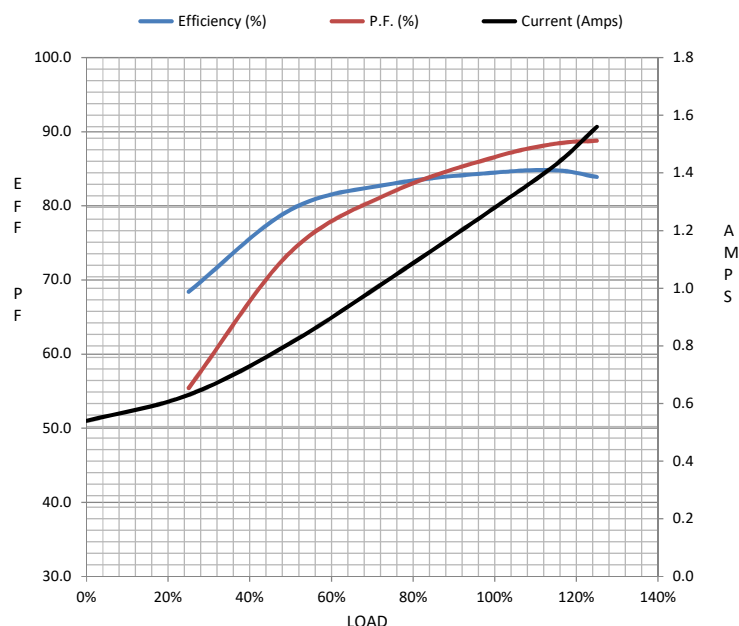
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	0.54	0.63	0.81	1.04	1.28	1.43	1.56	12.2	
Torque (ft-lb)	0.00	96.0	192	288	384	442	480	1,253	
RPM	3600	3571	3550	3528	3503	3,486	3478	0	
Efficiency (%)		68.4	79.5	83.0	84.5	84.8	83.9		
P.F. (%)	30.4	55.4	73.8	81.9	86.6	88.4	88.8	0.0	

Motor Speed Data

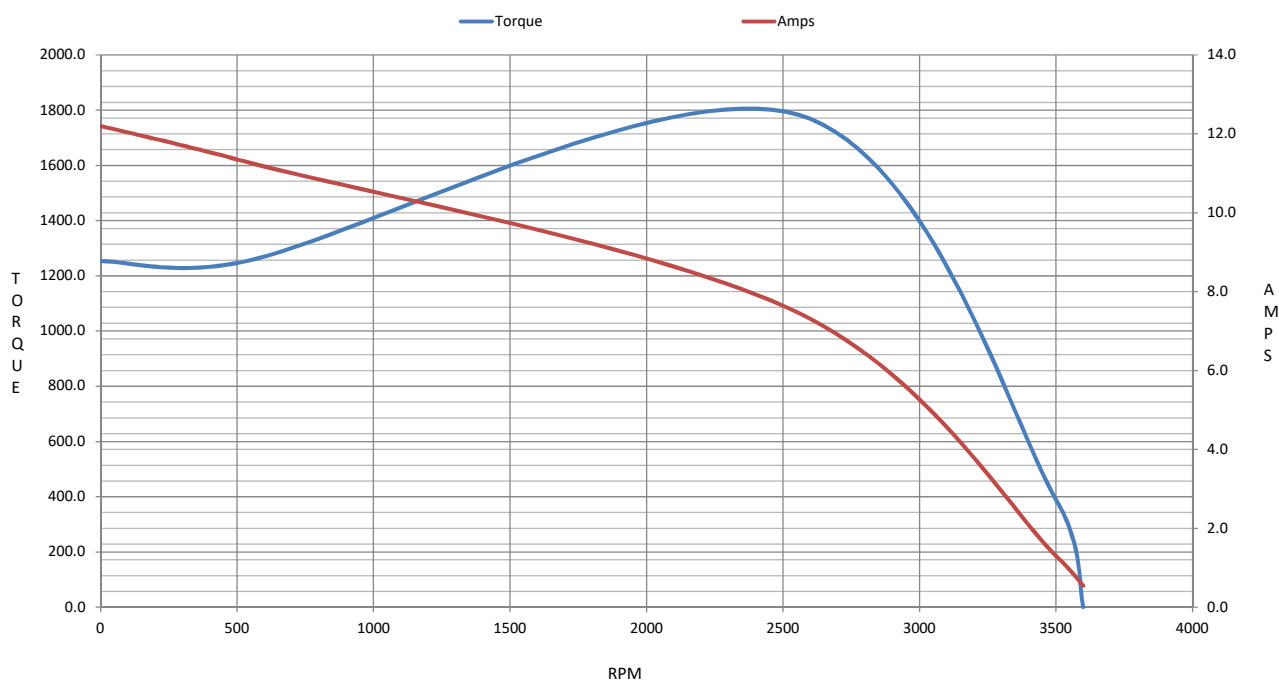
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	528	2557	3503	3600
Current (Amps)	12.2	11.3	7.5	1.28	0.54
Torque (ft-lb)	1,253	1,252	1,783	384	0.00

Information Block

HP	1.0			
Sync. RPM	3600			
Frame	140			
Enclosure	TENV			
Construction	NA			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	L			
Service Factor	1.0			
Temp Rise @ FL	98	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.07	Lb-Ft²		
Ref Wdg	T632233 NR			
Sound Pressure @ 1M	999	dBA		
VFD Rating	CONSTANT 6:1			
Outline Dwg	028942-700			
Conn. Diag	005010.01			
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 : 117281.00

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

Catalog No : 117281.00

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