

PRODUCT INFORMATION PACKET



Model No: LM10340
Catalog No: LM10340

Encoder Motor, 1 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM, 56HC Frame, TEFC



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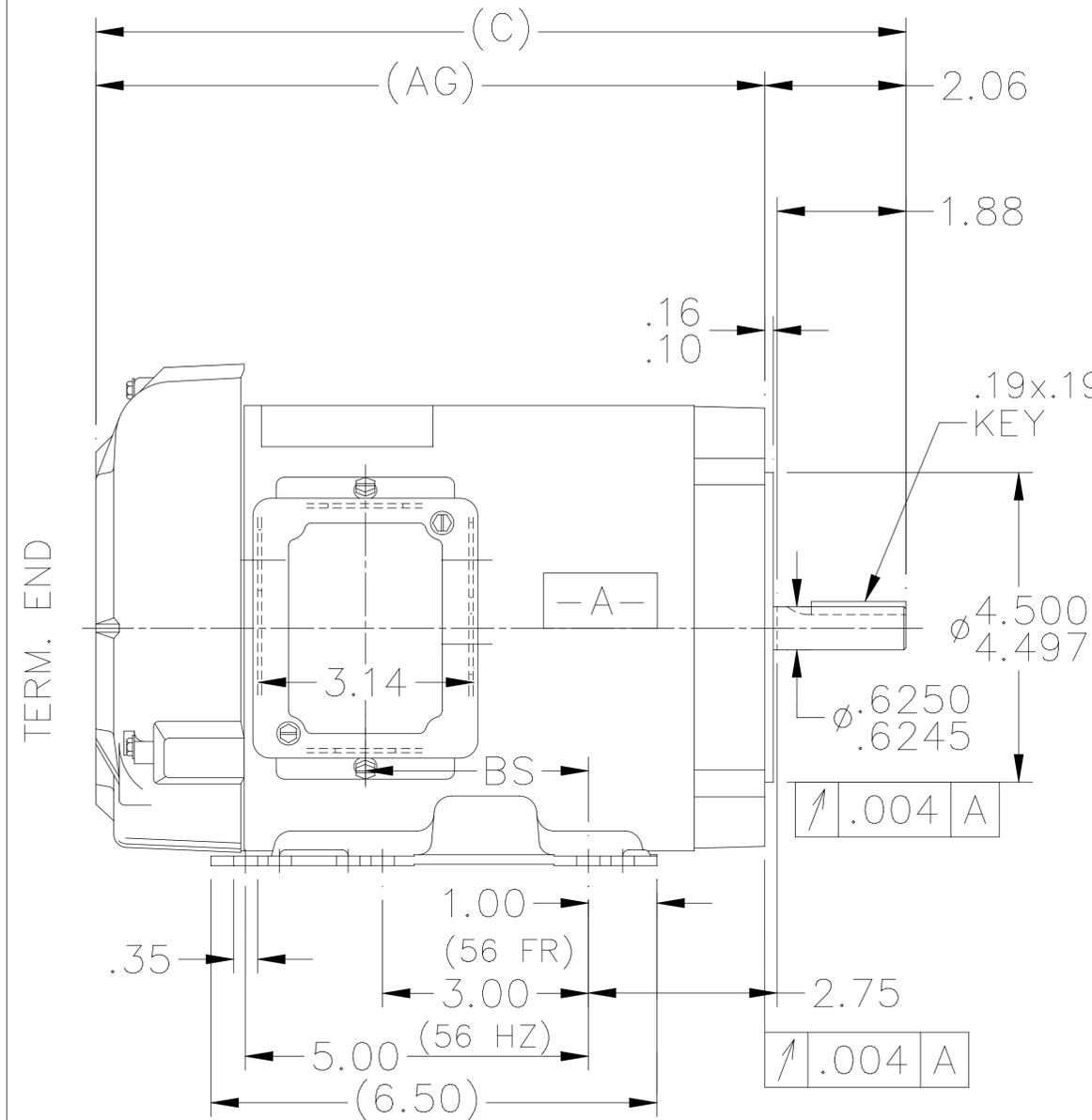
Nameplate Specifications

Phase	3	Output HP	1 & 1 Hp
Output KW	0.75 & 0.75 kW	Voltage	230/460 & 200/400 V
Speed	1730 & 1425 rpm	Service Factor	1.0 & 1.0
Frame	56HC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostat	Efficiency	77 & 77 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	3.6/1.8 & 3.8/1.9 A	Power Factor	68.4
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	L
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

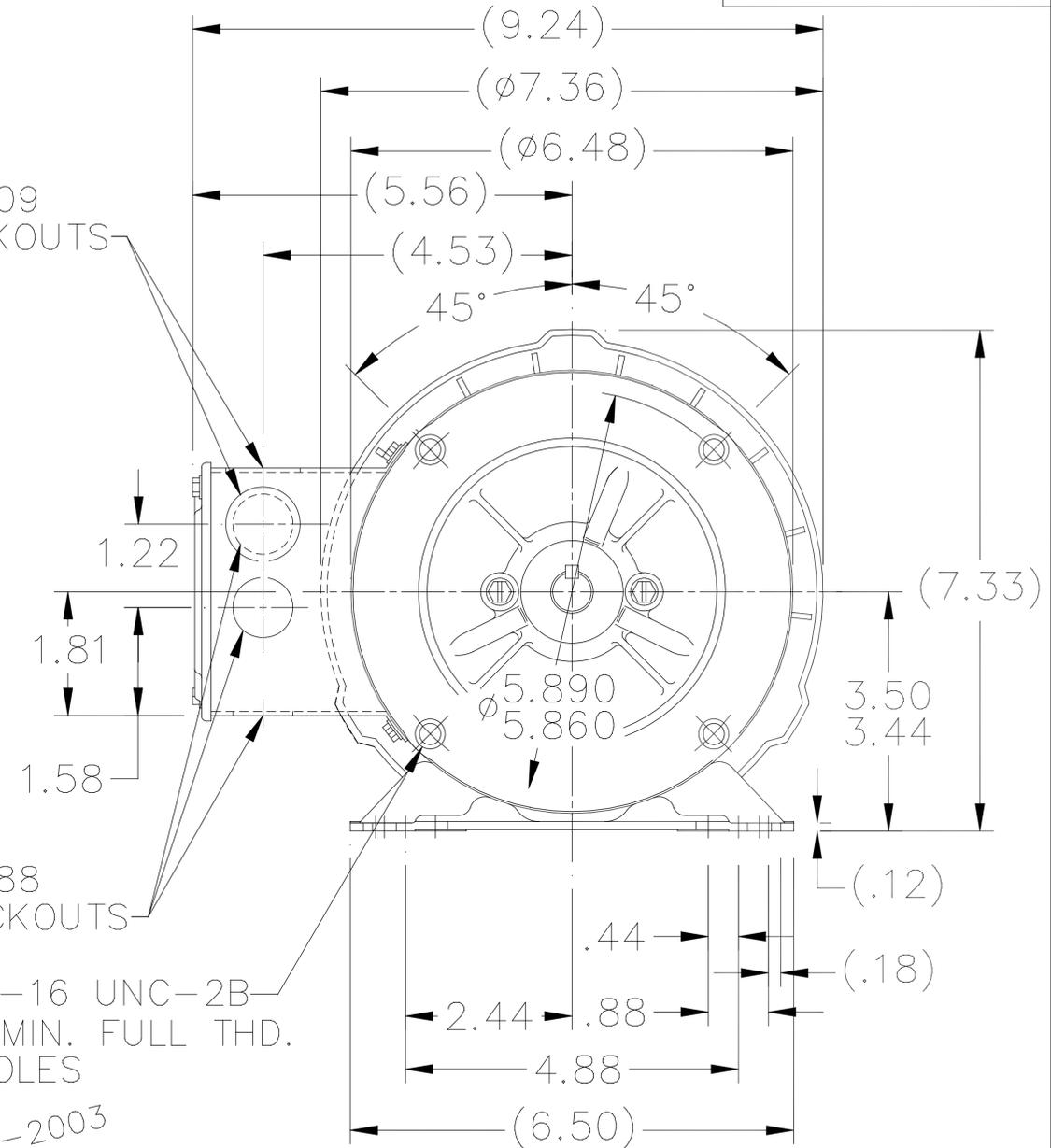
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	17.9 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	12.32 in
Frame Length	7.06 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Outline Drawing	100109-706	Connection Drawing	EE7308T

100109



2- ϕ 1.09
KNOCKOUTS



DASH	FR.	C	AG	BS	DASH	FR.	C	AG	BS
656	56-65	11.82	9.75	3.25	906	56-90	14.32	12.25	5.75
706	56-70	12.32	10.25	3.75	956	56-95	14.82	12.75	6.25
756	56-85	12.82	10.75	4.25					
856	56-85	13.82	11.75	5.25					

NOTES:

1. CONDUIT BOX CAN BE ROTATED 180°
2. NAMEPLATE READ FROM CONDUIT BOX SIDE OF MOTOR.

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	\pm .1
.XX	\pm .03
.XXX	\pm .005
.XXXX	\pm .0005
ANG	\pm 7'30"



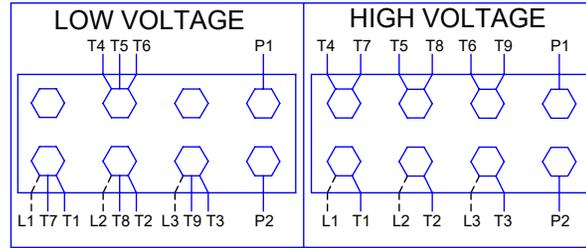
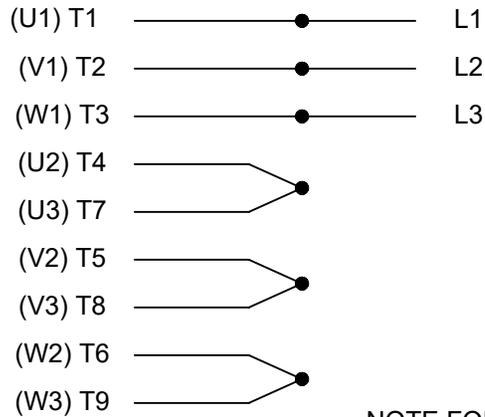
Regal Beloit America, Inc.

NO.	REVISION	BY & DATE	CHK	ANG	FINISH
5	ADDED DASH # 756 PER ECO-0045171	UD 02/11/14	PI	.XX	TITLE OUTLINE
4	AD'D NAMEPLATE LOC. CN 27400-296	BLR 08-05-1999		.XXX	56 FR. - TEFC - 3 - 'C' FACE
3	REDRAWN ON CADD - NO CHANGE	MRB 04-01-1998		.XXXX	MAT'L.

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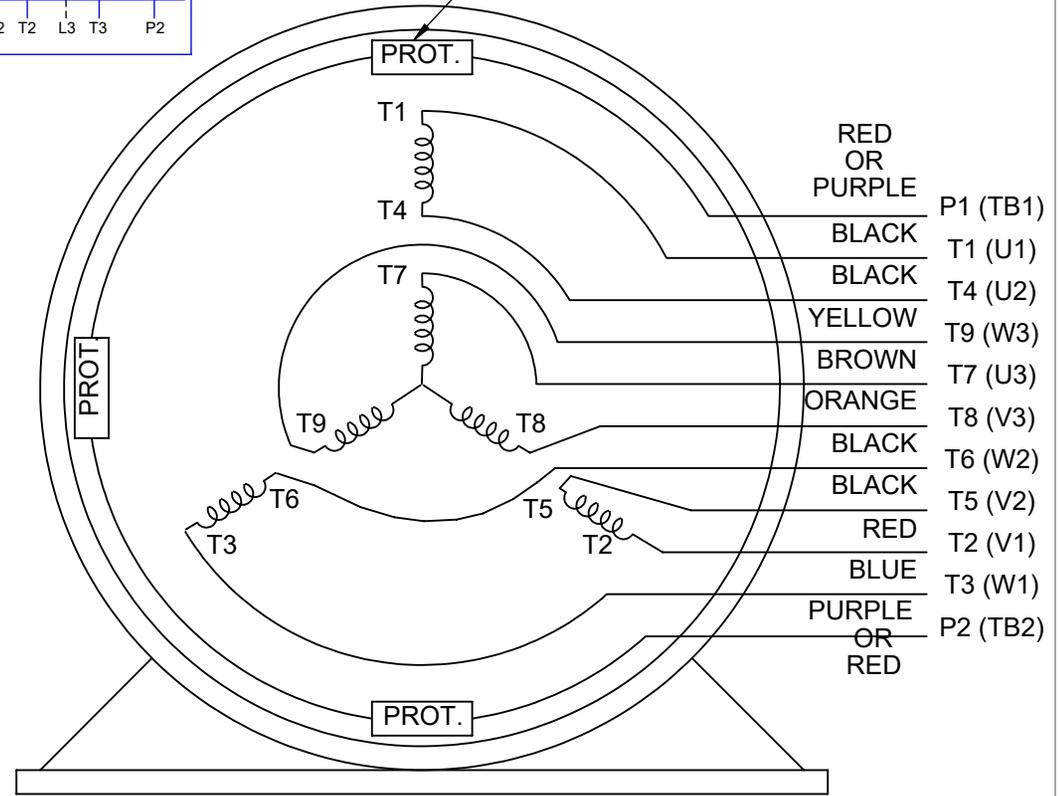
RFP	CAD FILE 100109	SIZE A	DRAWING NO. 100109	PAGE OF	REV. 5
DIST					

HIGH VOLTAGE



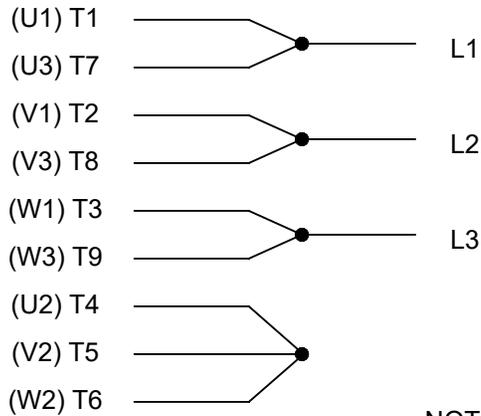
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992	
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR
<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>			DATE 05-13-1992	MATERIAL	PROCESS/FINISH
			REFERENCE EE7308/EE7300	THIRD ANGLE PROJECTION	SIZE A



**2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810**

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T-LN

OUTLINE: A-100109LN-706

CATALOG : LM10340

WINDING #: ZT406 R8 3

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1&1	0.75&0.75	1800	1730&1425	56HC	TEFC	L	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&200/400	3.6/1.8&3.8/1.9	INVERTER ONLY	CONTINUOUS	F3	1.0/1.0	40

FULL LOAD EFF:	77&77	3/4 LOAD EFF:	76.5	1/2 LOAD EFF:	74	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	68.4&73	3/4 LOAD PF:	60	1/2 LOAD PF:	47	74		SQ CAGE INV DUTY	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	25 / 12.5	10.2 LB-FT 340 %	12.7 LB-FT 423 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.056 LB-FT^2	- LB-FT^2	- SEC.	-	26 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	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
203	203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: CONSTANT 10:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE FT-LB V NONE Hz

Data Sheet

Date: 1/31/2018

LM10340



Data @ 460 V

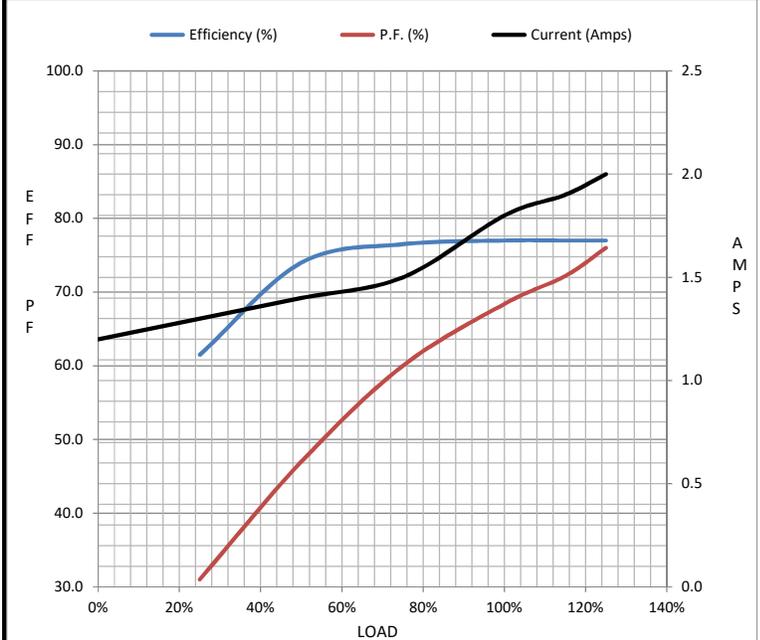
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.20	1.30	1.40	1.50	1.80	1.90	2.00	12.5
Torque (ft-lb)	0.00	0.75	1.50	2.20	3.0	3.4	3.8	10.2
RPM	1800	1785	1770	1755	1730	1.726	1720	0
Efficiency (%)		61.5	74.0	76.5	77.0	77.0	77.0	
P.F. (%)	12.5	31.0	47.0	60.0	68.4	72.2	76.0	73.0

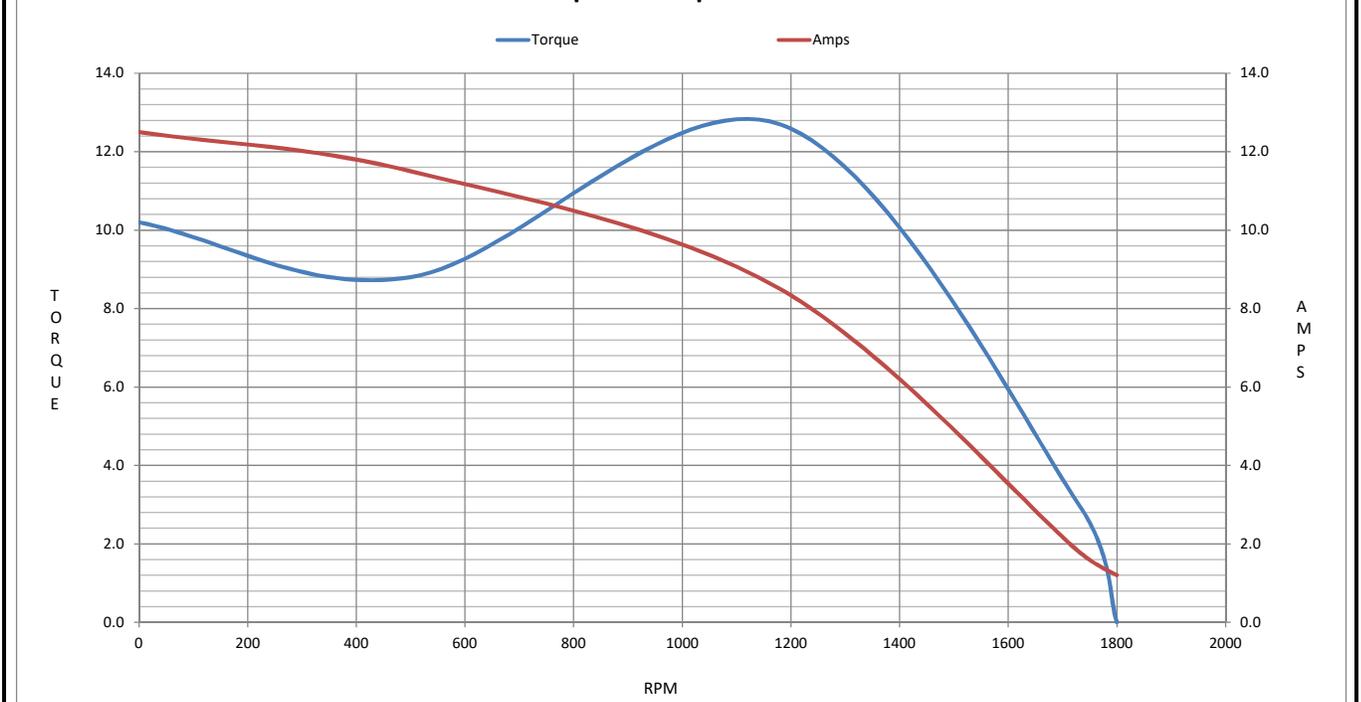
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	500	1180	1730	1800
Current (Amps)	12.5	11.5	8.5	1.80	1.20
Torque (ft-lb)	10.2	8.8	12.7	3.0	0.00

Information Block				
HP	1.0			
Sync. RPM	1800			
Frame	56			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#200/400 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.0			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.06 Lb-Ft ²			
Ref Wdg	ZT406 R8			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	A-100109LN-706			
Conn. Diag	A-EE7308T-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
10.5360	7.1570	11.9850	9.0600	211.5800



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 : LM10340

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

Catalog No : LM10340

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

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