

PRODUCT INFORMATION PACKET

Model No: LM32836

Catalog No: LM32836

General Purpose Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 900 RPM, 254TC Frame, TEFC



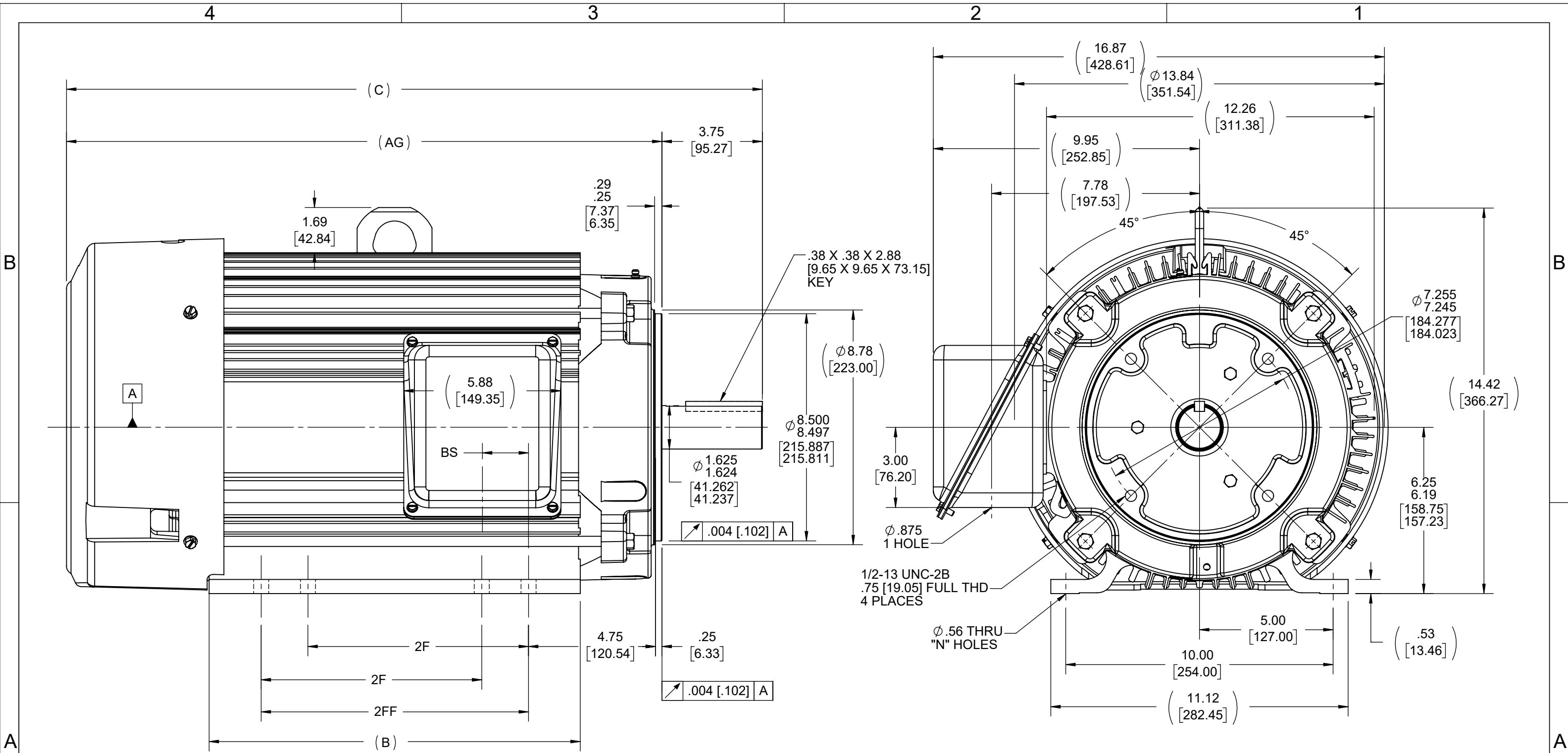
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Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	15.0/7.5 A	Speed	875 rpm
Service Factor	1.15	Phase	3
Efficiency	87.5 %	Power Factor	73
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	254TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	8	Rotation	Reversible
Resistance Main	2.65 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	24.00 in
Frame Length	12.00 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	VARIABLE 10:1		
Outline Drawing	SS321103LN-1200	Connection Drawing	EE7308-LN



NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

DASH	FRAME	C	B	BS	2F	2FF	AG	N
1200	254TC	24.28 [616.71]	12.13 [308.10]	1.73 [43.94]	8.25 [209.55]	-----	20.53 [521.46]	4
1375	254/6TC	26.03 [661.16]	13.88 [352.55]	1.73 [43.94]	8.25 [209.55]	10.00 [254.00]	22.28 [565.91]	8

DRAWING REVISION B	REVISION BY JVD	DATE 05/27/2021
ECO CR-0002792	APPROVED BY AS	DATE 05/27/2021
ECO DESCRIPTION REPLACED FAN GUARD 3C223-E3 TO 205016B		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	± 0.1	[± 2.5]	$\pm 7' 30''$
.XX	± 0.03	[± 0.76]	
.XXX	± 0.005	[± 0.127]	
.XXXX	± 0.0005	[± 0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°
 CORNER FILLETS: R.02 [51]
 MACHINED SURFACES: 200 INCH 5.1 mm
 mm SHOWN IN [BRACKETS]

DRAWN BY
CTO

DATE
05-11-2004

APPROVED BY
TB

DATE
05-11-2004

REFERENCE

THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
250TC FR - ALUM FR - TEFC

MATERIAL
PROCESS/FINISH

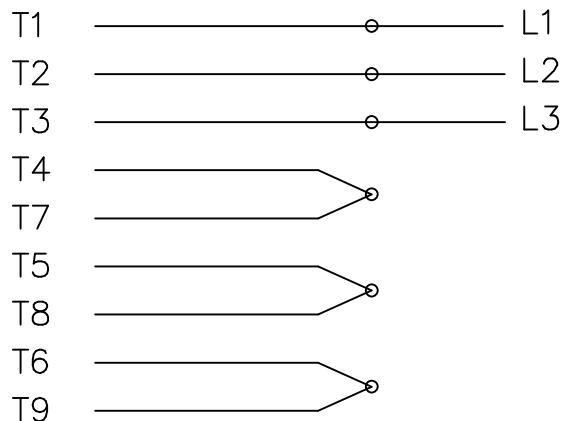
SIZE
B

DRAWING NUMBER
SS321103LN

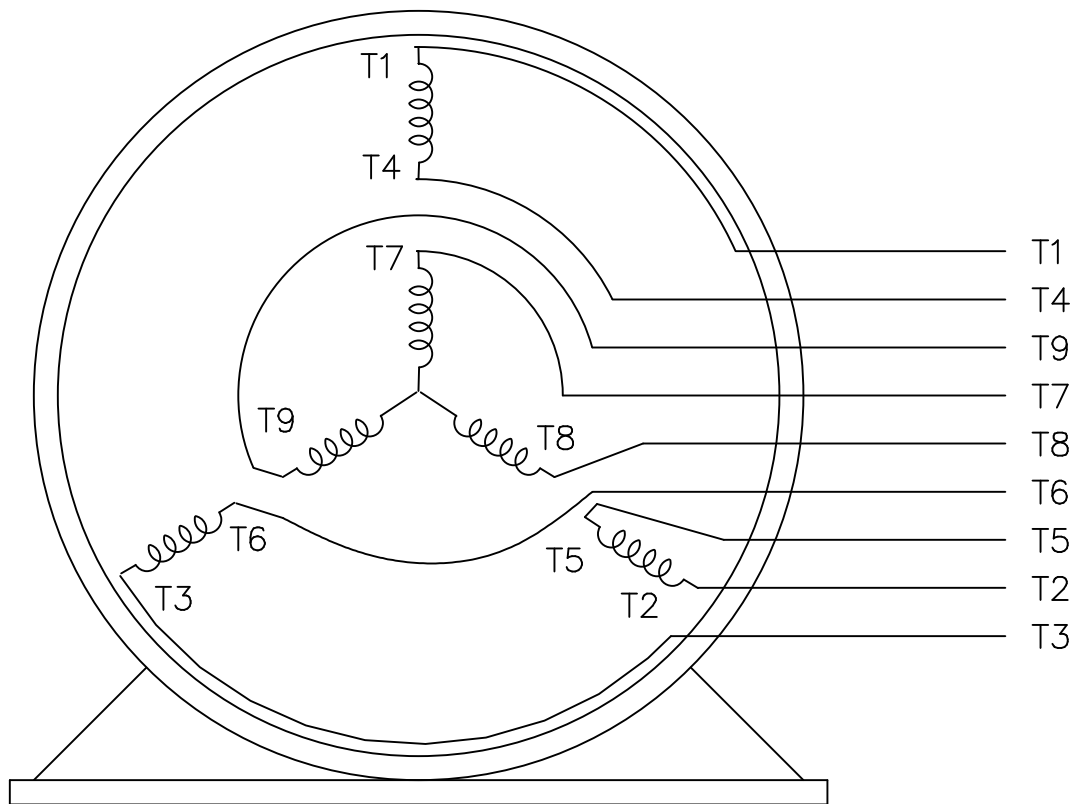
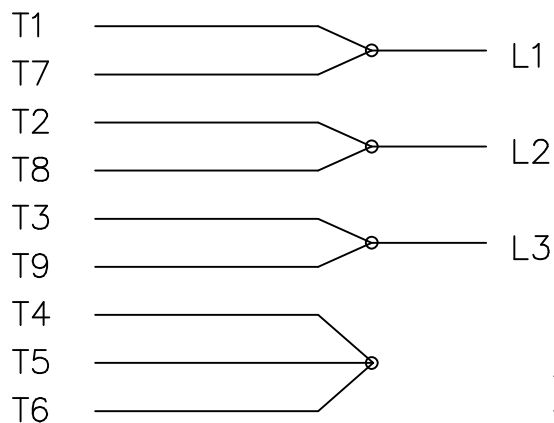
SHEET
1 OF 1

THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN	DATE				
				DEC.	INCHES							
				.X	±.1		BLR	06/11/1999				
							ML	06/18/1999				
							GK	06/18/1999				
3	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XX	±.02	TITLE CONNECTION DIAGRAM		SCALE 1=1				
2	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR 08/09/1999	GK	.XXX	±.005	3∅ - DUAL VOLTAGE MOTOR		REF				
1	NEW DRAWING	BLR 06/18/1999	GK	.XXXX	±.0005	MAT'L.		FMF				
				ANG	±7'30"			PREV				
				RFP	CAD FILE EE7308LN			SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WP	A			EE7308-LN			3





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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308-LN

CATALOG #: LM32836

OUTLINE: B-SS321103LN-1200

WINDING #: K254828 R4 1

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.70	900	875	254TC	TEFC	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	15/7.5	LINE OR INVERTER	CONTINUOUS	F3	1.15	40

FULL LOAD EFF:	87.5	3/4 LOAD EFF:	85.5	1/2 LOAD EFF:	84	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	73	3/4 LOAD PF:	66	1/2 LOAD PF:	54	85.5		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
30 LB-FT	64 / 32	41.5 LB-FT 138 %	64 LB-FT 213 %	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	2.4 LB-FT^2	- LB-FT^2	20 SEC.	-	325 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 - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	VERIFY	ALUMINUM
6309	6208						

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: VARIABLE 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 NONE V NONE Hz

Data Sheet

Date: 1/24/2018

LM32836



Data @ **460 V**

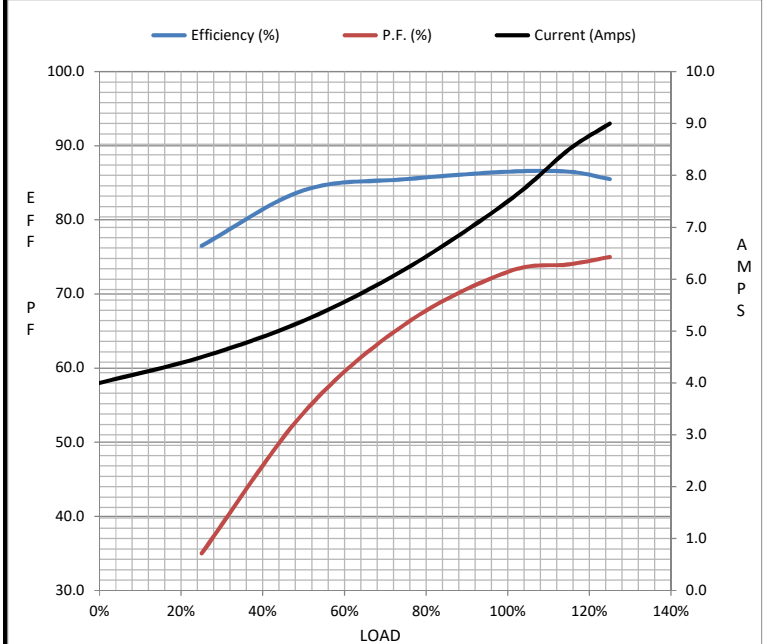
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	4.0	4.5	5.2	6.2	7.5	8.5	9.0	32.0
Torque (ft-lb)	0.00	7.5	15.0	22.5	30.0	35.0	38.0	41.5
RPM	900	895	885	880	875	870	865	0
Efficiency (%)		76.5	84.0	85.5	86.5	86.5	85.5	
P.F. (%)	8.5	35.0	54.0	66.0	73.0	74.0	75.0	0.0

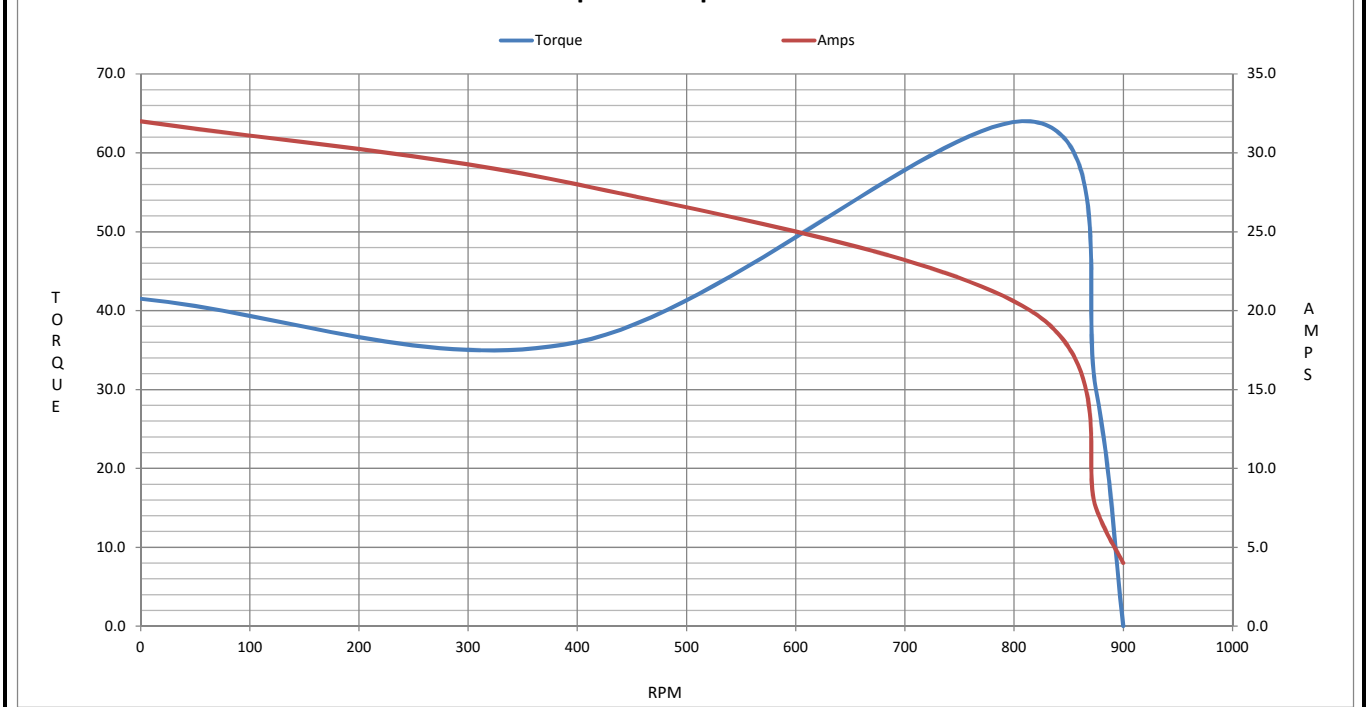
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	815	875	900
Current (Amps)	32.0	28.0	20.0	7.5	4.0
Torque (ft-lb)	41.5	36.0	64.0	30.0	0.00

Information Block				
HP	5.0			
Sync. RPM	900			
Frame	254			
Enclosure	TEFC			
Construction	TFY			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	40 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	2.40 Lb-Ft ²			
Ref Wdg	K254828 R4			
Sound Pressure @ 1M	55 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS321103LN-1200			
Conn. Diag	A-EE7308-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.4710	1.1420	5.2820	5.7370	61.9120



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 : LM32836

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

Catalog No : LM32836

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