PRODUCT INFORMATION PACKET

Model No: LM21886
Catalog No: LM21886
Automotive Duty Motor, 50 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 365USC Frame, TEFC

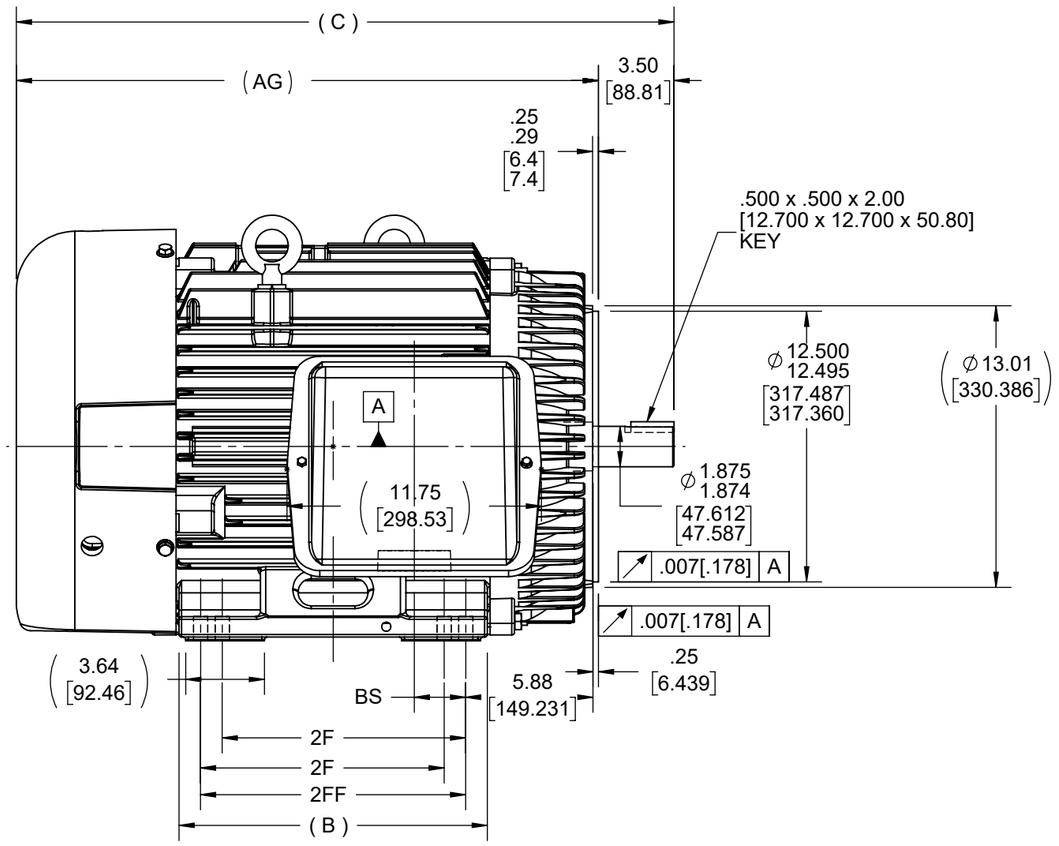
RegalRexnord

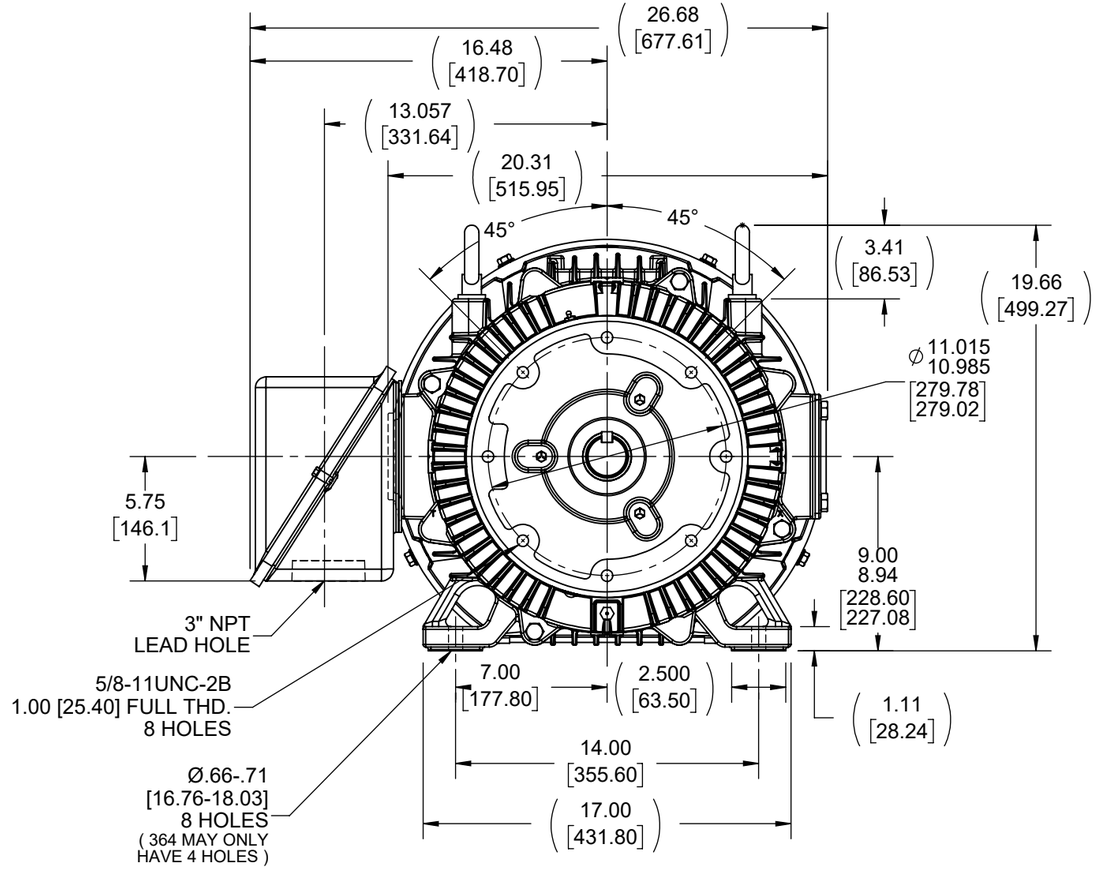
Nameplate Specifications

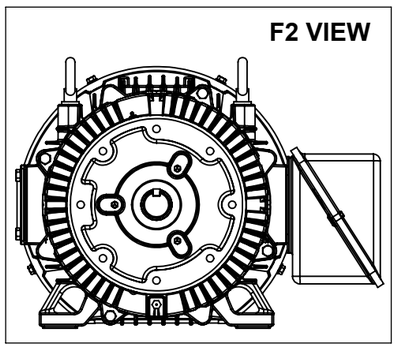
Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	460 V
Current	56.0 A	Speed	3560 rpm
Service Factor	1	Phase	3
Efficiency	94.1 %	Power Factor	89
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	365USC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	65 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	.105 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	US	Overall Length	30.38 in
Frame Length	14.50 in	Shaft Diameter	1.875 in
Shaft Extension	3.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS512357-1450	Connection Drawing	A-EE7300-LN

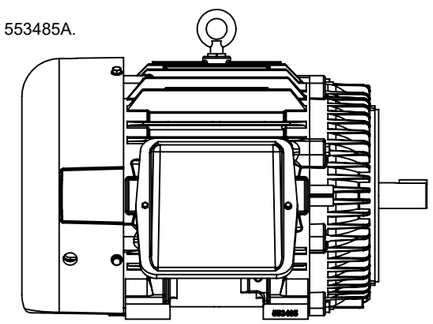


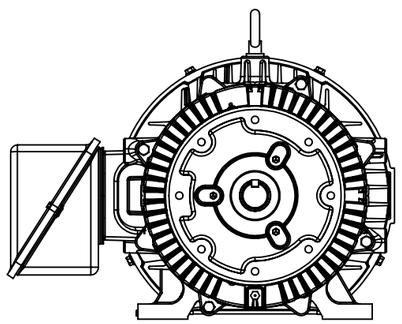




FRAME 364 - 1350

NOTE:
1. ALTERNATE FRAME DRAWING.
2. MODELS USING ALTERNATE FRAME 553485A.





NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.

DASH	FRAME	B	C	AG	2F	2FF	BS
1350	364TSC	13.25 [336.55]	29.38 [746.25]	25.88 [657.35]	11.25 [285.75]	- - -	5.62 [142.74]
1450	364/365TSC	14.25 [361.95]	30.38 [771.65]	26.88 [682.75]	11.25 [285.75]	12.25 [311.15]	2.38 [60.42]

DRAWING REVISION	REVISION BY	REV DATE/© DATE
F	MJ	5/23/2022
REQUEST NUMBER	APPROVED BY	DATE
CR-0007552	VJ	5/23/2022

REQUEST NUMBER DESCRIPTION
OUTLINE DRAWING IS UPDATED WITH NEW FRAME.

TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±0.5°
.XX	±0.01	[±0.3]	
.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	TLB
DATE	05-06-1998
APPROVED BY	ML
DATE	05-06-1998
REFERENCE	

Regal Rexnord — Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
36TSC FR. - TEFC - C'FACE - TAPPED LEAD HOLE

MATERIAL | PROCESS/FINISH

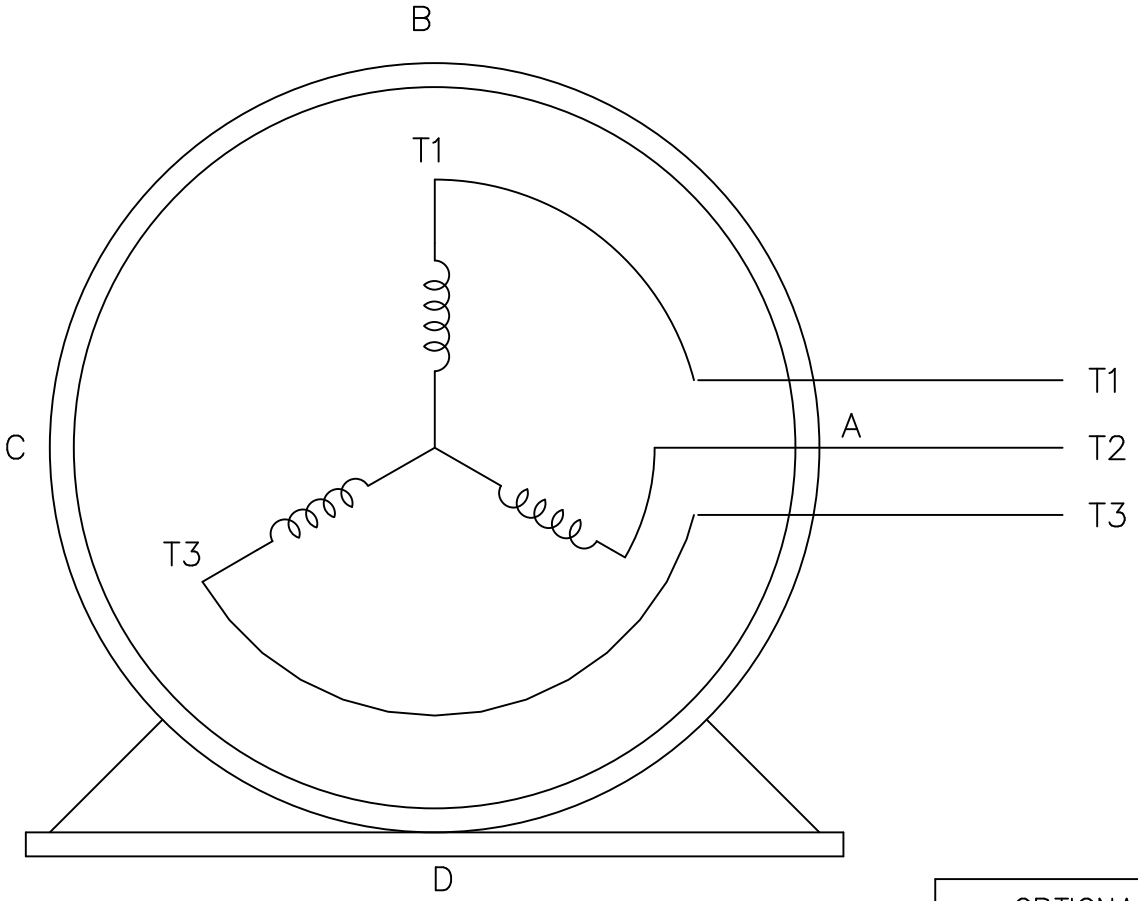
THIRD ANGLE PROJECTION

SIZE B | DRAWING NUMBER SS512357 | SHEET 1 OF 1

EE7300-LN

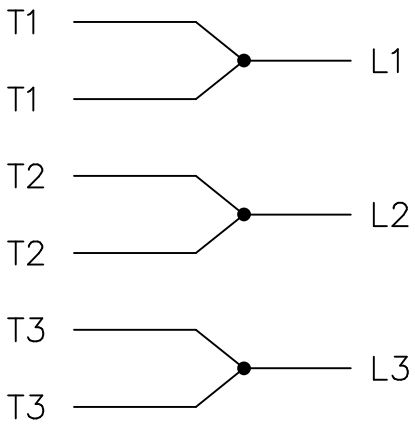
THREE PHASE – SINGLE VOLTAGE
MOTOR – CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

IF MOTOR HAS
6 LEADS



A–9806 DECAL

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

NO.	REVISION	BY & DATE	CHK
2	ADDED OPTIONAL CORD CONNECTION PER MU47226	CTO 03-31-2004	PJB
1	NEW DRAWING	CTO 08-13-1999	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Lincoln MOTORS

TITLE CONNECTION DIAGRAM
SINGLE VOLT – 3ø MOTOR

MAT'L.

FINISH

CAD FILE EE7300_LN

RFP

DIST WP

DRAWN BLR 08-13-1999
CHK ML 08-13-1999
APPD GK 08-13-1999
SCALE 1=1
REF
FMF
PREV

SIZE A

DRAWING NO. EE7300-LN

PAGE OF

REV. 2

7/19/2007 9:06:19 AM -

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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300-LN
OUTLINE: B-SS512357-1450
WINDING #: T365265 1

CATALOG : LM21886

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50	37.0	3600	3560	365USC	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	56	ACROSS THE LINE	CONTINUOUS	F1	1.0	65

FULL LOAD EFF:	94.1	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	93.6	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	89	3/4 LOAD PF:	87	1/2 LOAD PF:	82	93.6	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74 LB-FT	360	110 LB-FT 149 %	200 LB-FT 270 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	7.8 LB-FT^2	- LB-FT^2	20 SEC.	-	900 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	US	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6312						

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

NOTES

* AUTOMOTIVE DUTY PER GM7EH
RIGID BASE C-FACE, US SHAFT

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: 1/31/2018

LEESON

LM21886

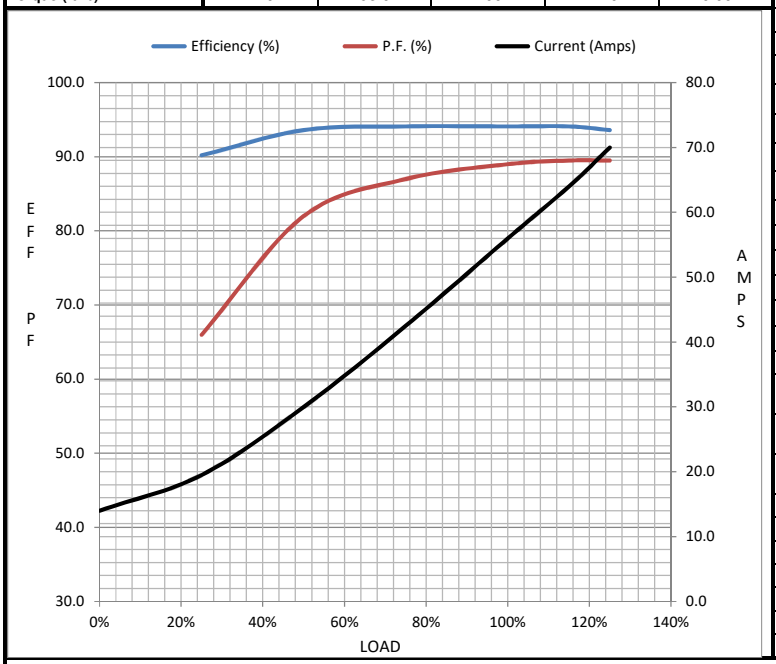
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	14.0	19.5	30.0	42.5	56.0	64.0	70.0	360	
Torque (ft-lb)	0.00	18.5	37.0	55.5	74.0	85.0	92.5	110	
RPM	3600	3590	3580	3570	3560	3,552	3545	0	
Efficiency (%)		90.2	93.6	94.1	94.1	94.1	93.6		
P.F. (%)	7.0	66.0	82.0	87.0	89.0	89.5	89.5	26.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3560	3600
Current (Amps)	360	325	225	56.0	14.0
Torque (ft-lb)	110	95.0	200	74.0	0.00



Information Block

HP	50.0	
Sync. RPM	3600	
Frame	365	
Enclosure	TEFC	
Construction	TFS	
Voltage	460	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	7.8	Lb-Ft²
Ref Wdg	T365265 NONE	
Sound Pressure @ 1M	75	dBA
VFD Rating	NONE	
Outline Dwg	B-SS512357-1450	
Conn. Diag	A-EE7300-LN	

Additional Specifications:

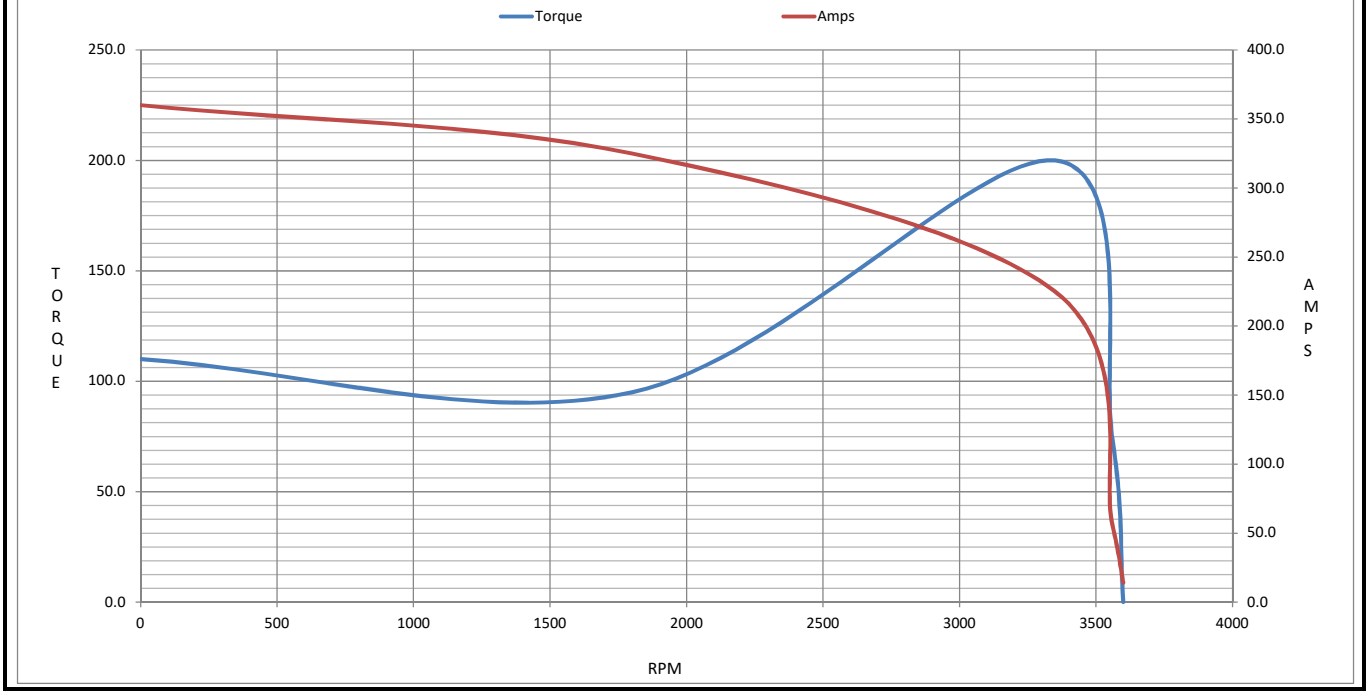
0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0670	0.0560	0.4930	0.4390	18.7000

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 : LM21886

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

Catalog No : LM21886

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