

PRODUCT INFORMATION PACKET

Model No: 324TSTDBD6001

Catalog No: GT0076

General Purpose Motor, 50 HP, 3 Ph, 60 Hz, 208-230/460 V, 3600 RPM, 324TS Frame, DP



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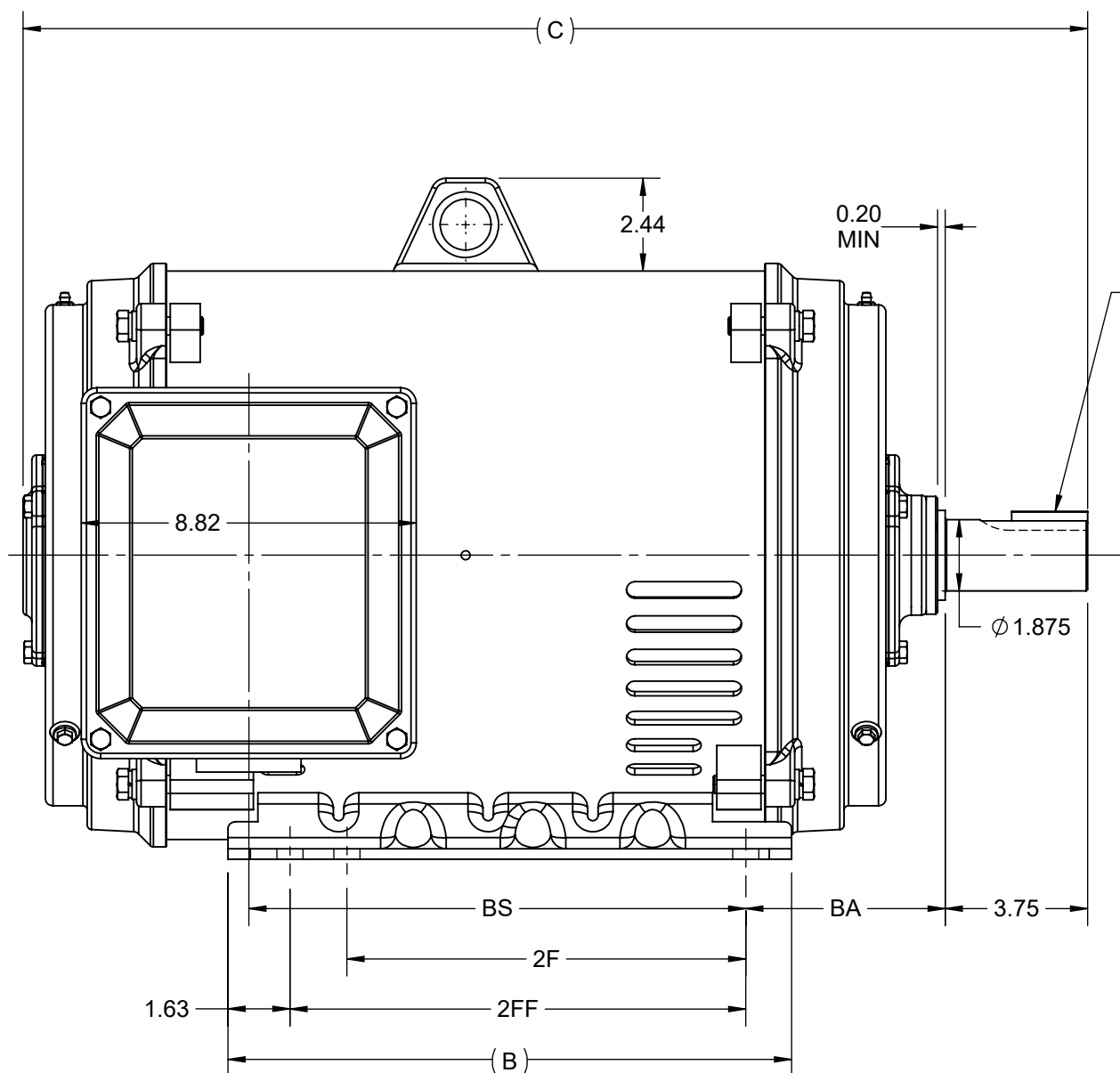
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	127.0-115.0/57.5 A	Speed	3565 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	87.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	324TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6212	Opp Drive End Bearing Size	6212
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

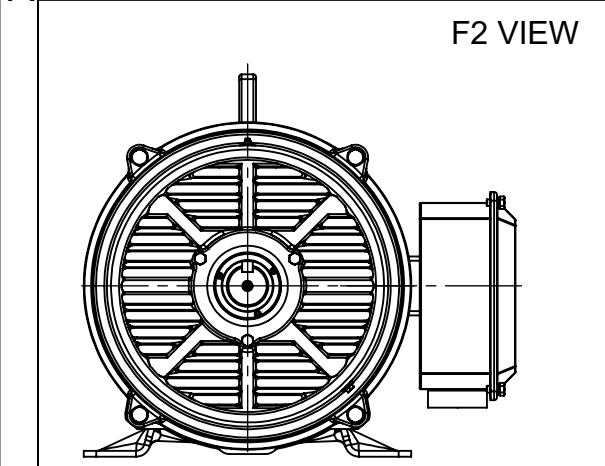
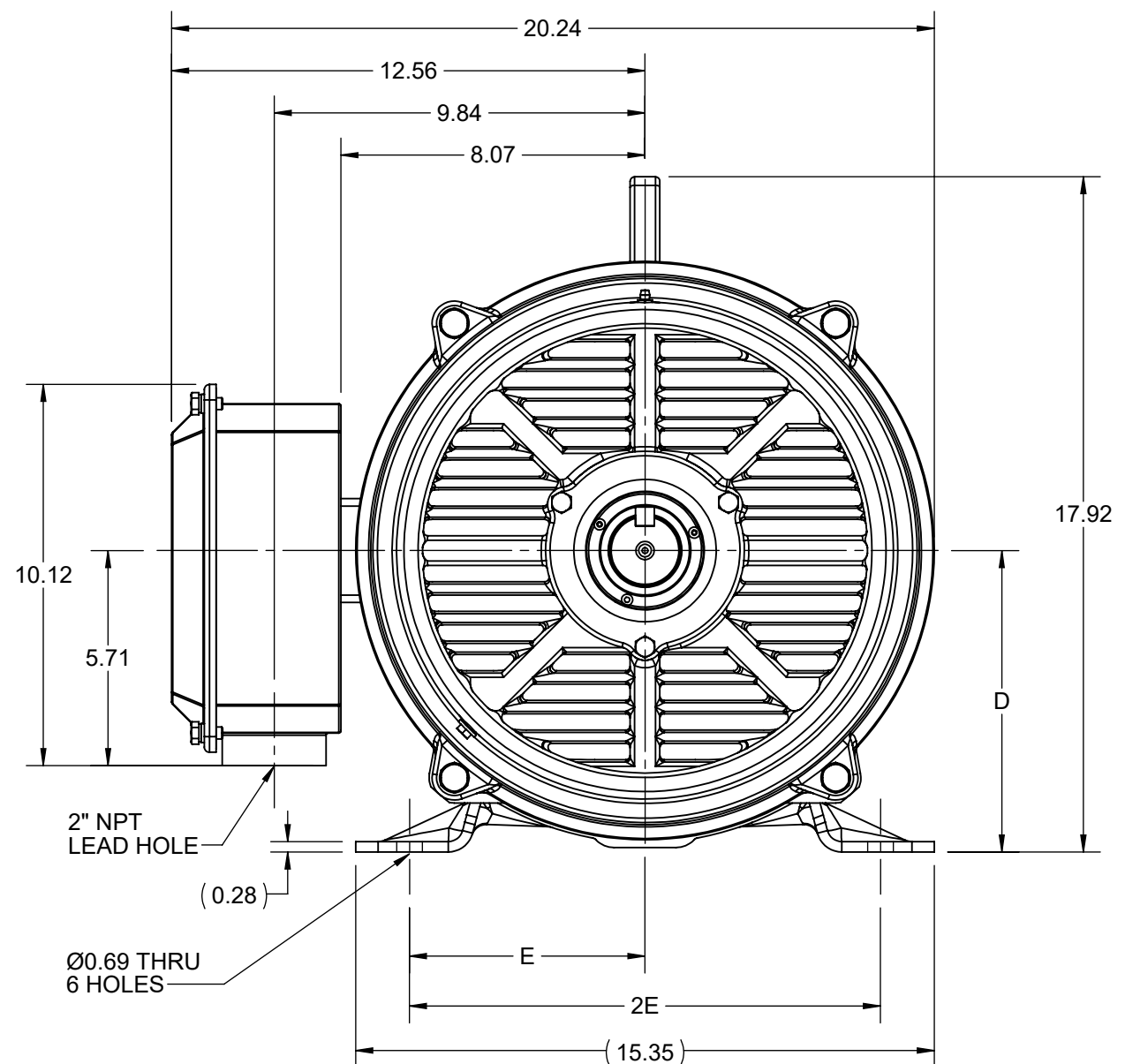
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.1708 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	TS	Overall Length	27.05 in
Shaft Diameter	1.875 in	Shaft Extension	3.75 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS620744-100	Connection Drawing	EE7308AA

	4			3				2			1
DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	14.85	26.85	8.00	6.25	12.50	10.50	12.00	5.25	11.90	F1 OR F2	324TS
200		28.03							13.08		326TS



1/2 X 1/2 X 2.00 KEY

Ø 1.875



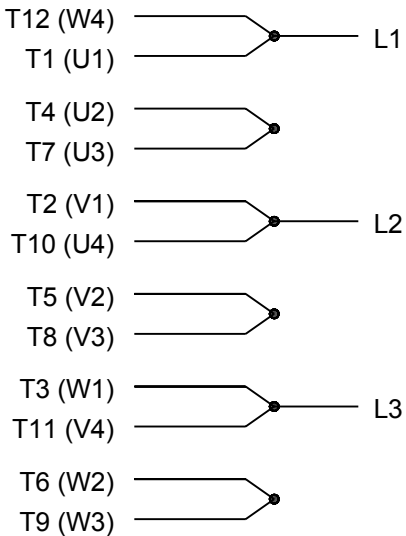
DRAWING REVISION C	REVISION BY RAM	REV DATE/© DATE 27/01/2022
REQUEST NUMBER CR-0006568	APPROVED BY SBD	DATE 27/01/2022
REQUEST NUMBER DESCRIPTION VIEWS UPDATED AS PER 3D		
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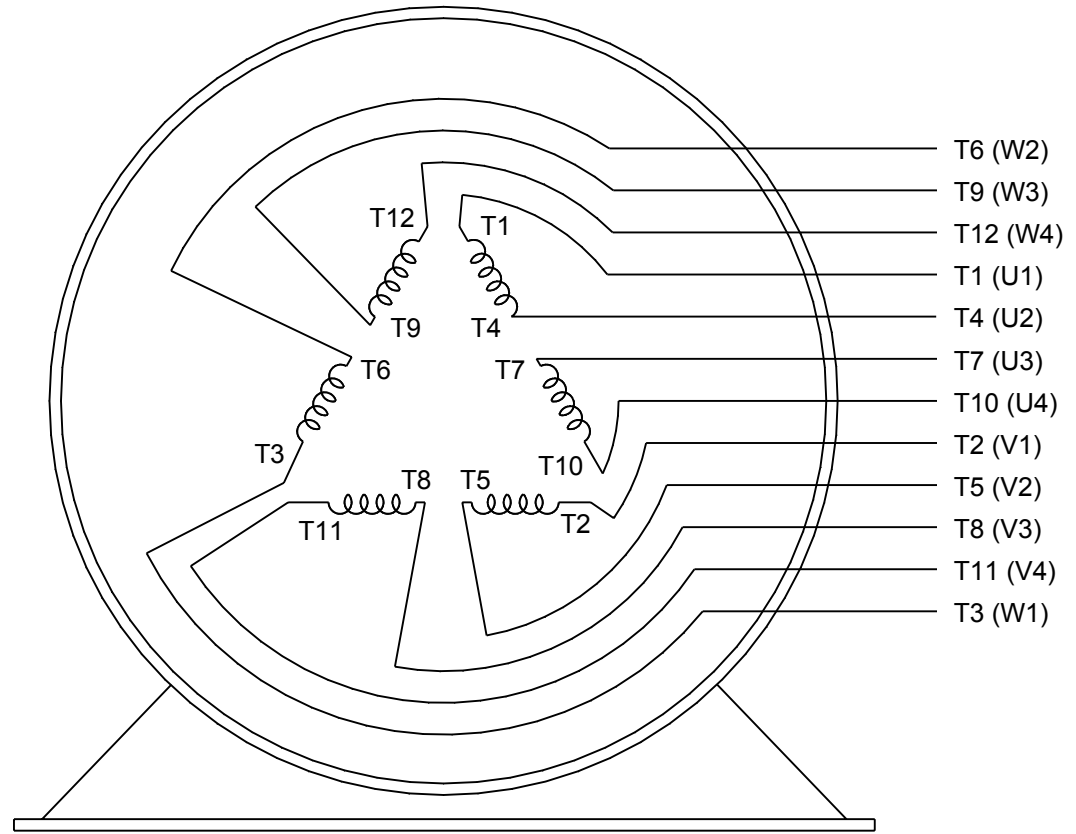
DRAWN BY XZ	Regal Rexnord Regal Beloit America, Inc.	
DATE 25/02/2016	DESCRIPTION OUTLINE 324/326TS FR NEMA ODP RS	
APPROVED BY	MATERIAL	PROCESS/FINISH
DATE	SIZE B	DRAWING NUMBER SS620744
REFERENCE	THIRD ANGLE PROJECTION	SHEET 1 OF 1



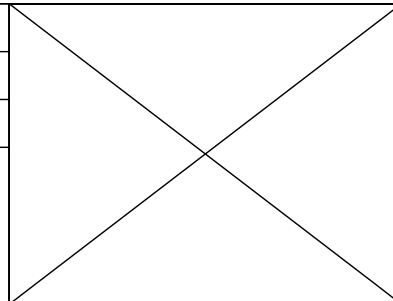
LOW VOLTAGE



HIGH VOLTAGE



DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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DRAWN BY LZ	Regal Beloit America, Inc.	
DATE 01-12-1994		
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS	
DATE 01-14-1994		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308AA
		SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 324TSTDBD6001 AA **WINDING#:** HE32002009 NONE 2
CONN. DIAGRAM: EE7308AA **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: SS620744

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&40	37&30	3600	3565&2965	324TS	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	115/57.5&112/ 56	PWS & YDRUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 93&92.7	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87.5&88	3/4 LOAD PF: 85	1/2 LOAD PF: 78	92.4	SQ CAGE INV RATED	36.4 / 18.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
73.8 LB-FT	680 / 340	126 LB-FT 170	178 LB-FT 240	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	4.8 LB-FT^2	- LB-FT^2	15 SEC.	2	450 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6212	6212						

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

If Inverter equals NONE, contact factory for further information

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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 NONE FT-LB NONE V NONE Hz

DATE: 07/03/2017 03:50:49 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 12/2/2021
 Customer: _____
 Attention: _____
 Submitted by: _____



324TSTDBD6001

Submittal

Data @ **460** V

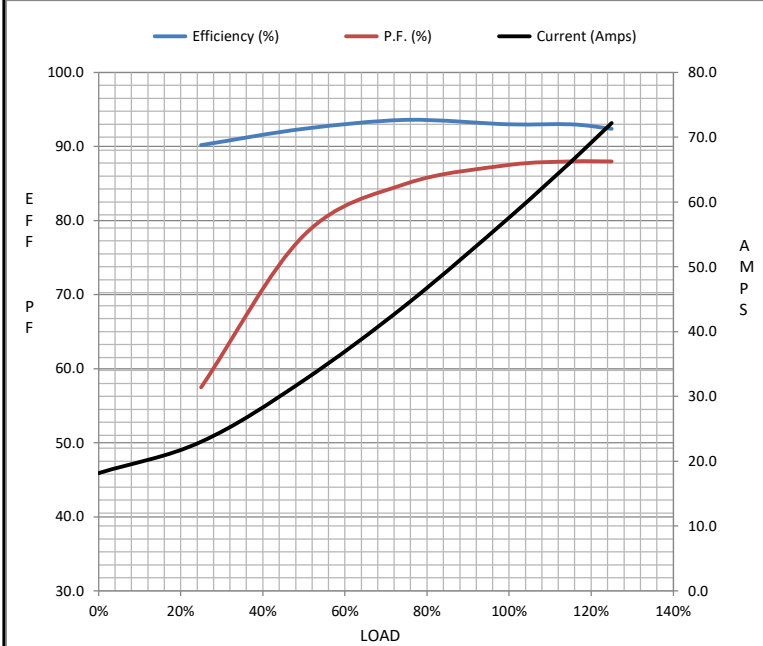
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	18.2	23.0	32.5	44.2	57.6	66.2	72.2	340
Torque (ft-lb)	0.00	18.3	36.7	55.0	73.8	85.0	92.5	126
RPM	3600	3592	3584	3575	3565	3,560	3555	0
Efficiency (%)		90.2	92.4	93.6	93.0	93.0	92.4	
P.F. (%)	7.5	57.5	78.0	85.0	87.5	88.0	88.0	33.0

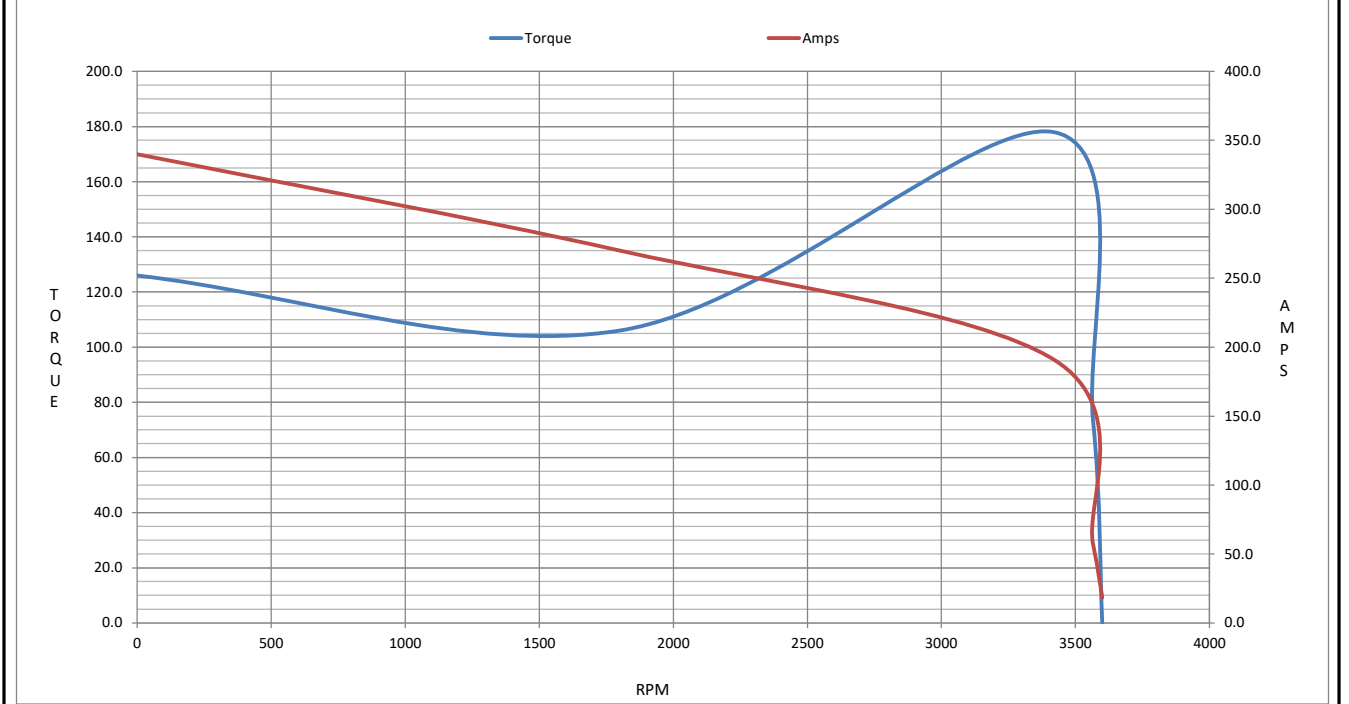
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3420	3565	3600
Current (Amps)	340	270	191	57.6	18.2
Torque (ft-lb)	126	106	178	73.8	0.00

Information Block				
HP	50.0			
Sync. RPM	3600			
Frame	324			
Enclosure	DP			
Construction	TDB			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	35 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	4.8 Lb-F ²			
Ref Wdg	HA32002009 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	CONSTANT 4:1/VARIABLE 20:1			
Outline Dwg	SS620744-100			
Conn. Diag	EE7308AA			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0960	0.0450	0.4820	0.5330	14.8410



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 : 324TSTDBD6001

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

Catalog No : GT0076

Rework No : N/A

Directives :

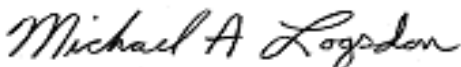
Low Voltage Directive 2014/35/EU

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