

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTWWD16003

Catalog No: N659B

PowerWash™ XT Wash Down Duty™ General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz,
230/460 & 190/380 V, 3600 & 3000 RPM, 213TC Frame, TEFC



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RegalRexnord

Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	3525 & 2945 rpm	Service Factor	1.15 & 1.0
Frame	213TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	18.6/9.3 & 16/8 A	Power Factor	84.6
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.1725 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	18.77 in
Frame Length	9.65 in	Shaft Diameter	1.375 in
Shaft Extension	3.37 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 10:1		
Connection Drawing	005010.01ME	Outline Drawing	038049-965

4

3

2

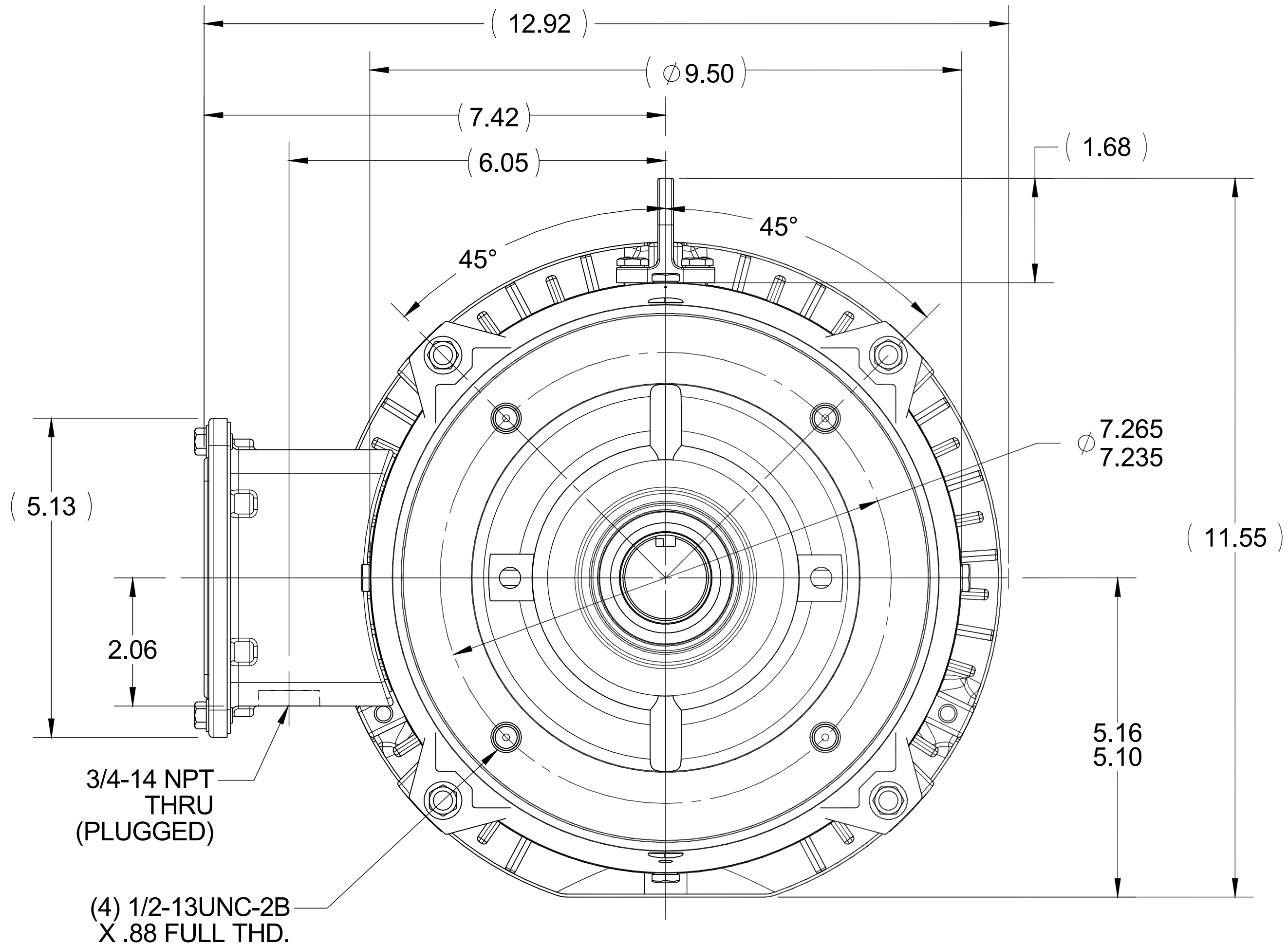
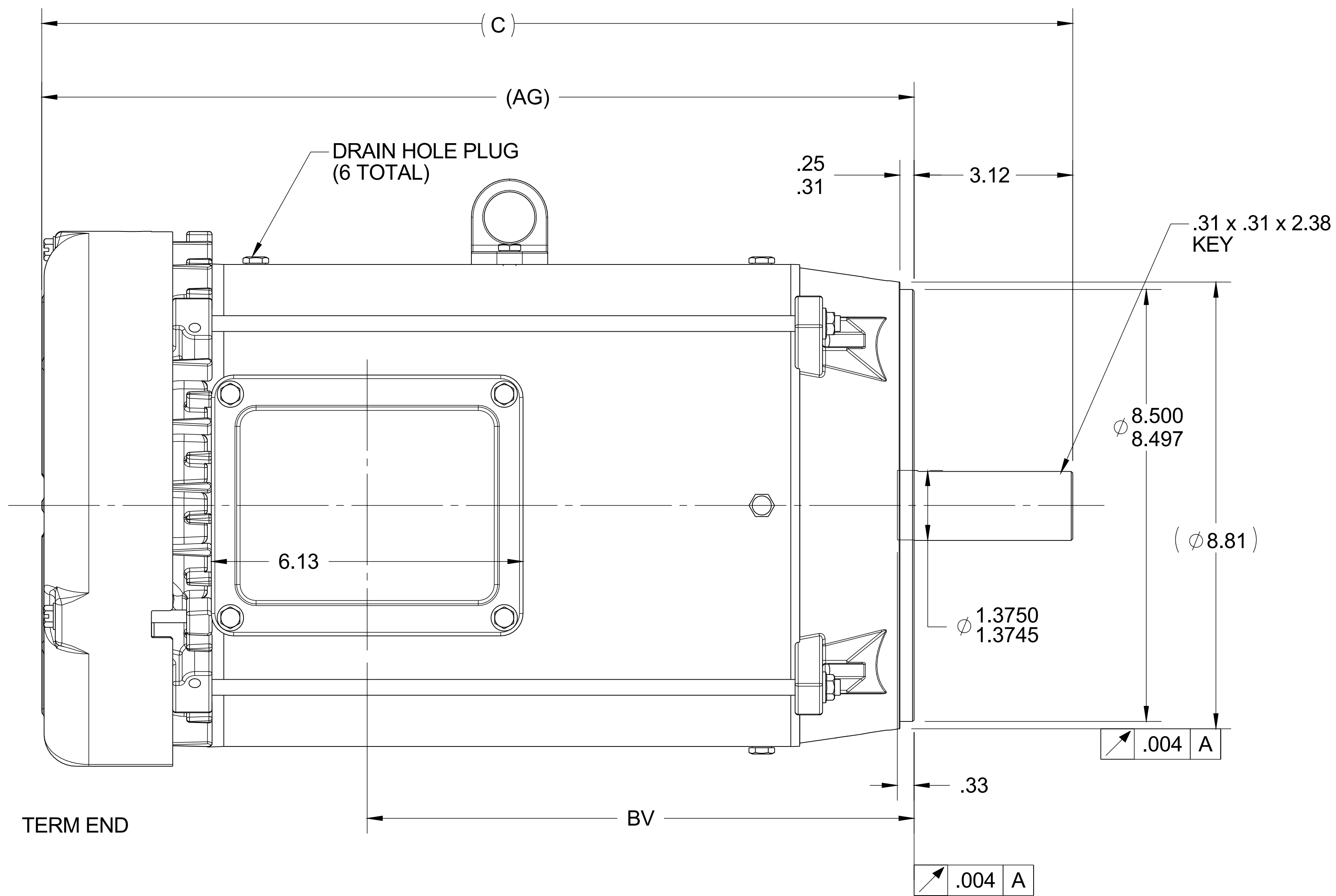
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B

B

A

A

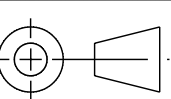


- NOTES:
- 1- NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
DASH 965 TO BE READ FROM OPPOSITE SHAFT END
 - 2- C'BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING
BRACKETS AND TURNING FRAME 180 DEGREES (EXCEPT AS NOTED).

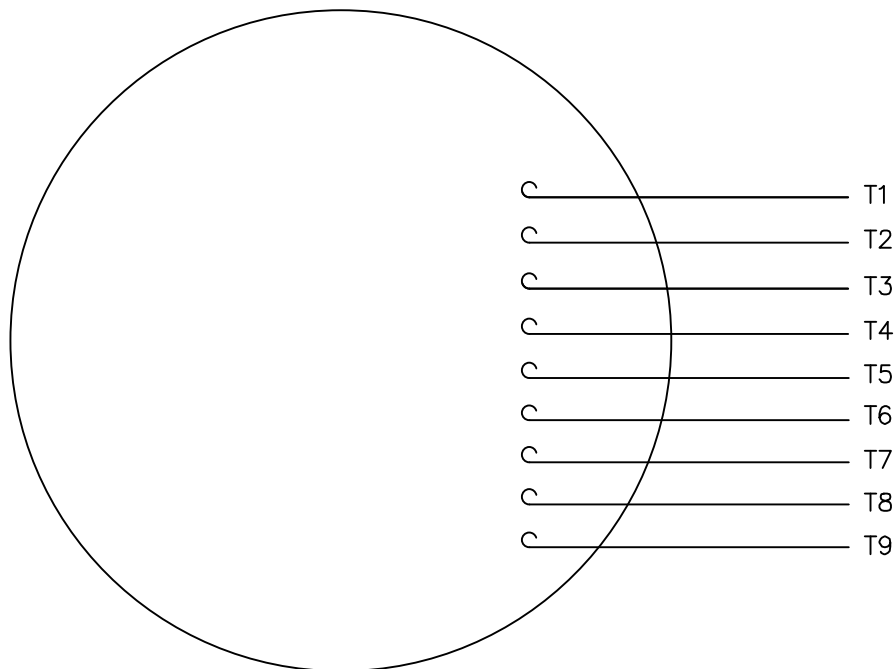
DASH	FRAME	C	BV	AG	MOUNTING
965	213T	18.77	9.26	15.65	
1115	213/15T	20.27	10.76	17.15	
1240	215T	21.52	12.01	18.40	F1 ONLY

DRAWING REVISION	REVISION BY	DATE
A	SL	11/05/2015
ECO	APPROVED BY	DATE
ECO-0086119	SR	11/05/2015
ECO DESCRIPTION		
NEW DRAWING		
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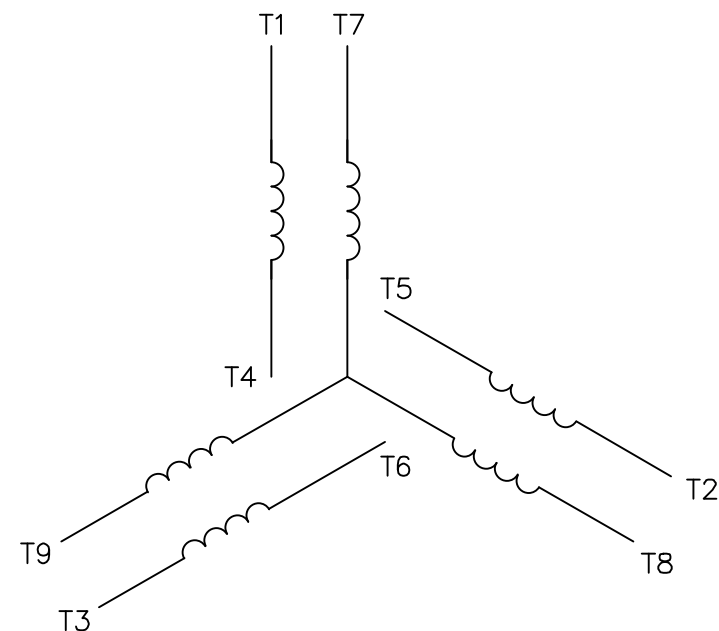
TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] MACHINED SURFACES: 125 INCH 3.2 mm SHOWN IN [BRACKETS]			

DRAWN BY						Regal Beloit America, Inc.	
SL							
DATE		11/05/2015					
APPROVED BY		SR		DESCRIPTION		OUTLINE	
DATE		11/05/2015		WASHDOWN 210FR-TEFC-C-FACE-3PH-ROUND			
REFERENCE				MATERIAL		PROCESS/FINISH	
THIRD ANGLE PROJECTION				SIZE		DRAWING NUMBER	
		B		038049		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

				TOLERANCES UNLESS SPECIFIED			DRAWN RDW 04/12/02			
				DEC.	INCHES		CHK			
				.X	±.1		APPD			
				.XX	±.01		SCALE 1=1			
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR		REF FIG.2—51		
				.XXXX	±.0005	MAT'L. DECAL — 004014		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH		PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE THIS PRINT			RFP	04/12/02		CAD FILE 00501001ME		SIZE	DRAWING NO.	REV.
			DIST				A	005010—01ME		



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
ORDER #: _____ REFERENCE MODEL #: 213TTWWD16003
CONN. DIAGRAM: 005010.01ME CAT #: N659B
OUTLINE: 038049-965 CUSTOMER PART #: _____
WINDING: K2132124 NONE 2 MOUNTING: F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	3600	3525	213TC	TEFC	TFW	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	18.6/9.3&16/8	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	88.9	1/2 LD EFF	88.1	GTD EFF	89.5	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	84.6	3/4 LD PF	79.7	1/2 LD PF	68.4				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
11.2 LB-FT	63.0	19.3 LB-FT 172%	33.0 LB-FT 295%	55	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA	0.55 LB-FT²	12 LB-FT²	20 SEC.	2	165 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	HITE - LEESON (EPO)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	303 STAINLESS (C-501)	ROLLED STEEL
6309 6206						

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
1.055	0.575	2.544	1.414	56.7	0.150	ODE

* N O T E s *		INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR
PREPARED BY: FAREEDA DUDEKULA DATE: 9/17/2018	BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE	NONE H2:
FORM: 3531 REV_4 2/27/06	UL: V-INS, CONST UL REC	

Data Sheet

Date: 12/5/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



213TTWWD16003

Submittal

Data @ 460 V

Motor Load Data

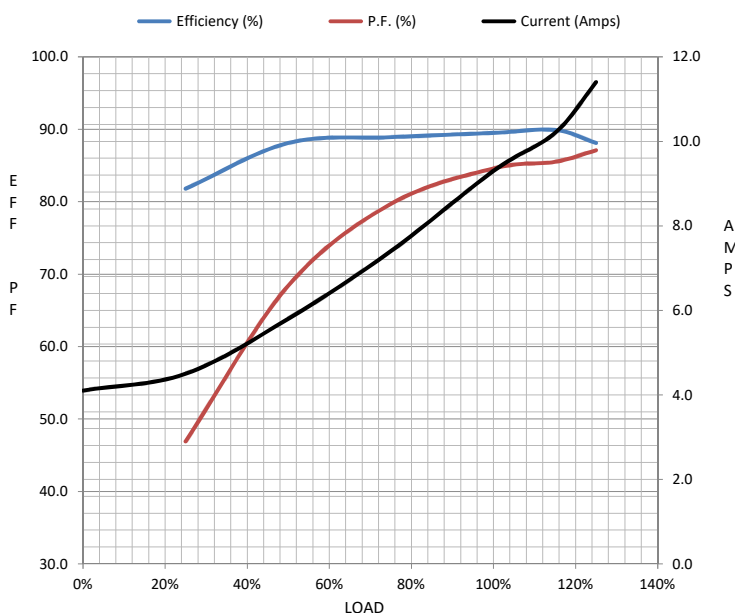
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.1	4.5	5.8	7.4	9.3	10.2	11.4	63.0	
Torque (ft-lb)	0.00	2.70	5.5	8.3	11.2	12.5	14.0	19.3	
RPM	3600	3585	3565	3545	3525	3,520	3505	0	
Efficiency (%)		81.8	88.1	88.9	89.5	89.9	88.1		
P.F. (%)	8.0	46.9	68.4	79.7	84.6	85.5	87.1	0.0	

Motor Speed Data

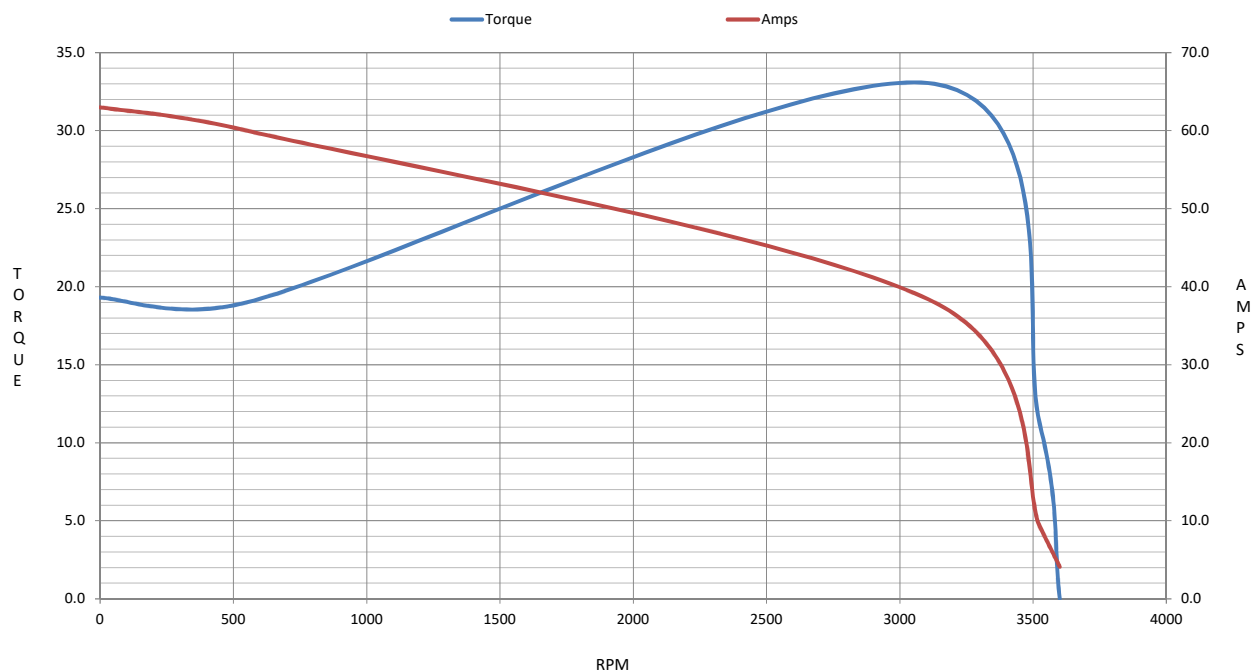
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	552	3130	3525	3600
Current (Amps)	63.0	60.0	38.0	9.3	4.1
Torque (ft-lb)	19.3	19.0	33.0	11.2	0.00

Information Block

HP	7.5			
Sync. RPM	3600			
Frame	213			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	55	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.55	Lb-Ft²		
Ref Wdg	K2132124 NONE			
Sound Pressure @ 1M	72	dBA		
VFD Rating	CONSTANT 10:1			
Outline Dwg	038049-965			
Conn. Diag	005010.01ME			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.0550	0.5750	2.5440	1.4140	56.7000



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 : 213TTWWD16003

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

Catalog No : N659B

Rework No : N/A

Directives :

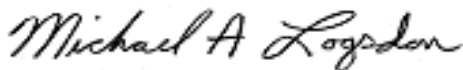
Low Voltage Directive 2014/35/EU

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