

# PRODUCT INFORMATION PACKET

Model No: 215THTL7736

Catalog No: Y561

Black Max® Inverter Duty Speed Ratio Motor, 10 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 215TC Frame, TENV



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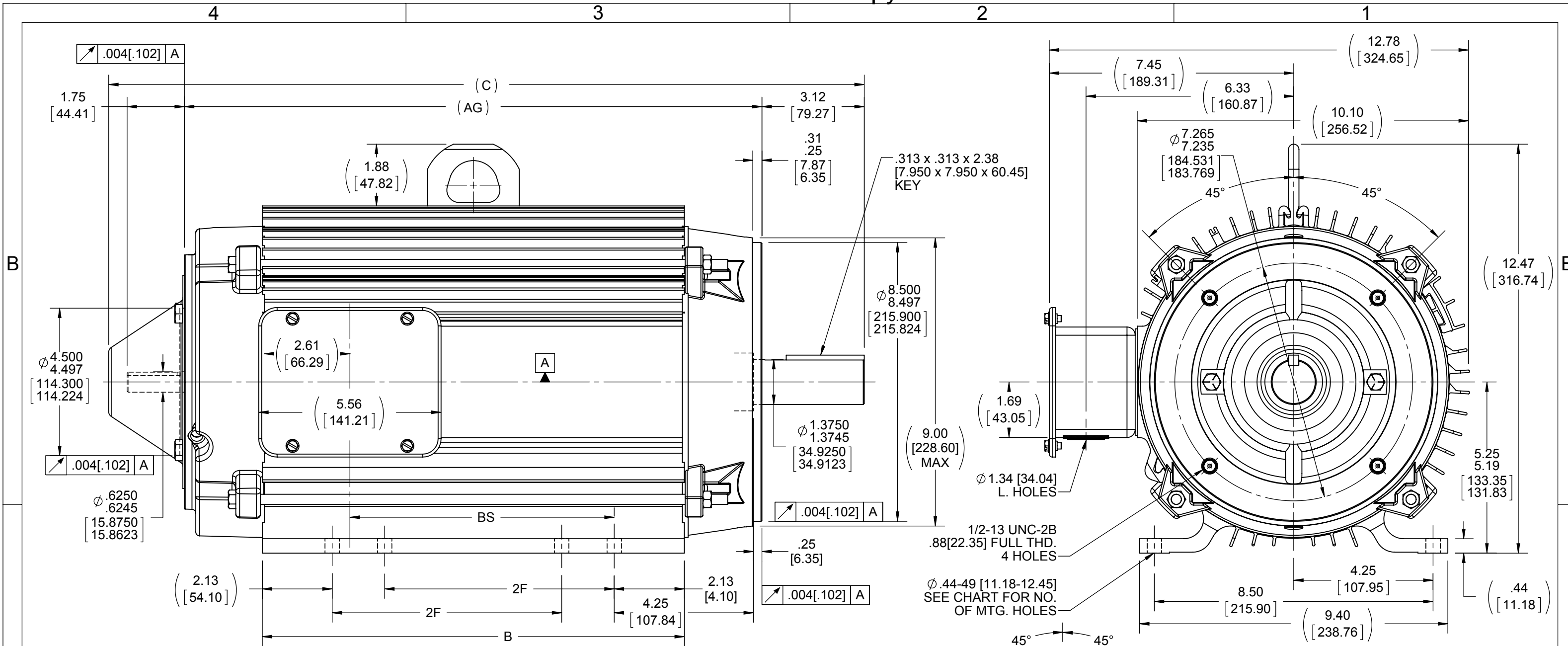
### Nameplate Specifications

Output HP	<b>10 Hp</b>	Output KW	<b>7.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>575 V</b>
Current	<b>10.8 A</b>	Speed	<b>1774 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>90.2 %</b>	Power Factor	<b>76</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>INV</b>	KVA Code	<b>M</b>
Frame	<b>215TC</b>	Enclosure	<b>Totally Enclosed Non Ventilated</b>
Thermal Protection	<b>Thermostat</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Duty</b>	Starting Method	<b>Inverter Only</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.59 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Aluminum</b>
Shaft Type	<b>T</b>	Overall Length	<b>23.04 in</b>
Frame Length	<b>12.75 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.12 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Inverter Load	<b>CONSTANT 1000:1</b>		
Outline Drawing	<b>B-SS330105-1275</b>	Connection Drawing	<b>A-EE7300T</b>





DASH	FR.	B	C	2F	AG	BS	F2 CAP.	# HOLES
875	213	8.87 [225.30]	19.04 [483.62]	5.50 [139.70]	13.61 [345.69]	4.05 [102.87]	YES	8
950	213	9.62 [244.35]	19.79 [502.67]	5.50 [139.70]	14.36 [364.74]	4.80 [121.92]	NO	4
1025	213	10.37 [263.40]	20.54 [521.72]	5.50 [139.70]	15.11 [383.79]	5.55 [140.97]	YES	8
1025	215	10.37 [263.40]	20.54 [521.72]	7.00 [177.80]	15.11 [383.79]	5.55 [140.97]	YES	8
1115	213/ 215	11.27 [286.26]	21.44 [544.58]	5.50[139.70] 7.00[177.80]	16.01 [406.65]	6.45 [163.83]	YES	8
1175	213	11.87 [301.50]	22.04 [559.82]	5.50 [139.70]	16.61 [421.89]	7.05 [179.07]	YES	8
1175	215	11.87 [301.50]	22.04 [559.82]	7.00 [177.80]	16.61 [421.89]	7.05 [179.07]	NO	4
1275	213	12.87 [326.90]	23.04 [585.22]	5.50 [139.70]	17.61 [447.29]	8.05 [204.47]	YES	8
1275	215	12.87 [326.90]	23.04 [585.22]	7.00 [177.80]	17.61 [447.29]	8.05 [204.47]	YES	8

- NOTES:  
 1. CONDUIT BOX CAN BE ROTATED IN 180° STEPS.  
 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.  
 3. SEE CHART FOR F2 CAPABILITY. IF YES, BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.

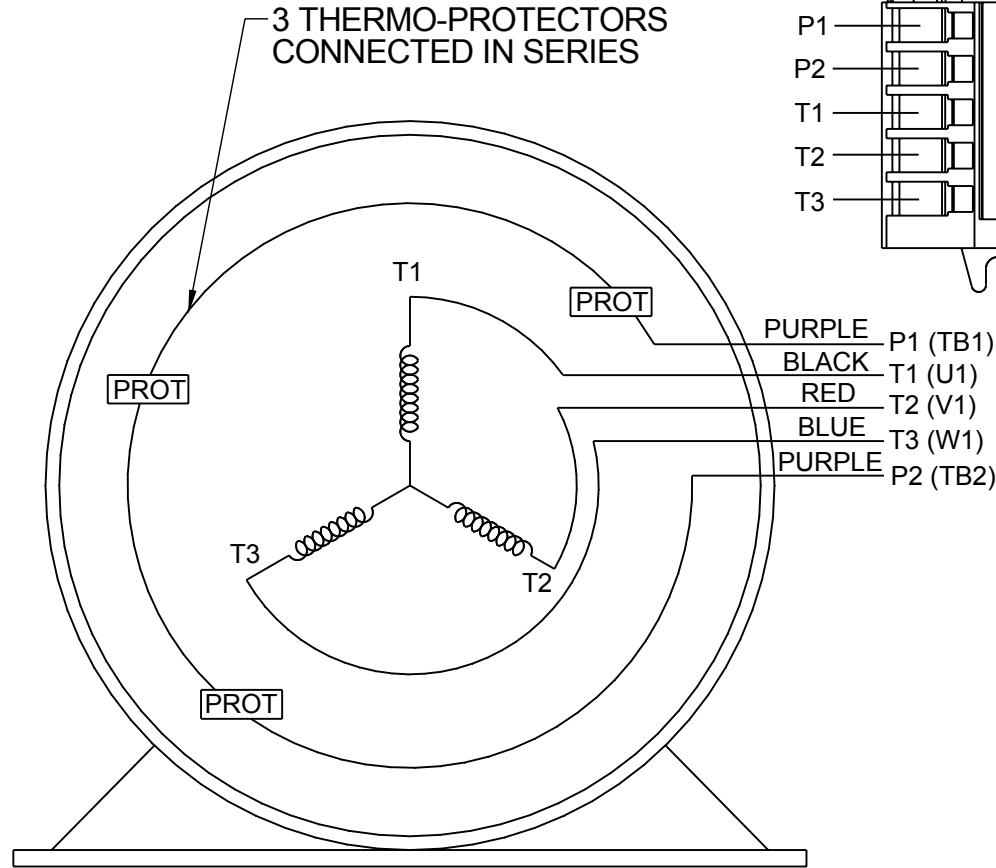
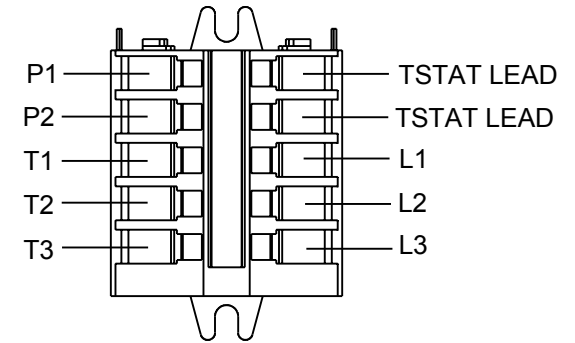
DRAWING REVISION A	REVISION BY JWO	DATE 09-29-2014	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. X ±0.1 [±2.5] ANGLE ±7° 30" .XX ±0.03 [±0.76] XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127]	DRAWN BY MKLEIST	Regal Beloit America, Inc.
ECO ECO-0060878	APPROVED BY TB	DATE 09-30-2014	REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [0.51] MACHINED SURFACES: 200 INCH/mm 5.1 mm SHOWN IN [BRACKETS]	DATE 02-22-2005	
ECO DESCRIPTION MU118296, NMR-0067007 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.				APPROVED BY CDG	DESCRIPTION <b>OUTLINE</b> 210 FR. - ALUMINUM FRAME - TENV - DBL. C' FACE
				DATE 09-29-2005	MATERIAL
				REFERENCE	PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE B
					DRAWING NUMBER SS330105
					SHEET 1 OF 1

**THREE PHASE - SINGLE VOLTAGE  
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:  
INTERCHANGE ANY TWO LINE  
LEAD CONNECTIONS**

**NOTE FOR FACTORY USE ONLY:  
TO SURGE TEST:  
FOR 3 LEAD COMMON CONNECT:  
CONNECT P1 TO T1 THEN P2 TO L1  
FOR 6 LEAD COMMON CONNECT:  
CONNECT P1 TO BOTH T1  
THEN P2 TO L1**

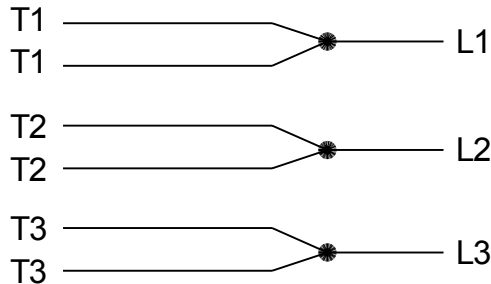
TERMINAL BLOCK WHEN SPECIFIED



PURPLE P1 (TB1)  
BLACK T1 (U1)  
RED T2 (V1)  
BLUE T3 (W1)  
PURPLE P2 (TB2)

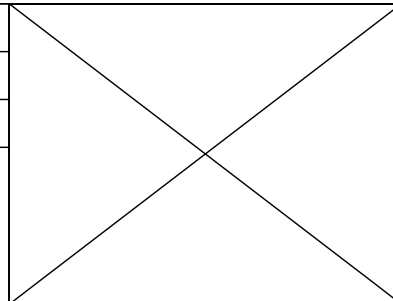
T2BM  
T6AW  
T6AL  
T6Z  
T4EG  
T4BF  
T8A  
T6H  
T6A  
T4AX  
T4A  
T2A  
T2F

**IF MOTOR HAS MULTIPLE  
T'S PER LEAD CONNECT  
TOGETHER LIKE T'S**



**A-9806 DECAL**

DRAWING REVISION AB	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
DATE 01-04-1994
APPROVED BY GK
DATE 01-20-1994
REFERENCE
THIRD ANGLE PROJECTION

<b>REGAL</b> ™ Regal Beloit America, Inc.	
<b>DESCRIPTION</b> <b>CONN DIAGRAM-EXTERNAL</b> 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR	
MATERIAL	PROCESS/FINISH
SIZE <b>A</b>	DRAWING NUMBER <b>EE7300T</b>
SHEET 1 OF 1	



NONE	NONE		
NONE FT-LB	NONE V	NONE Hz	

DATE: 06/22/2017 07:08:59 AM  
FORM 3531 REV.3 02/07/99  
\*\* Subject to change without notice.

Data Sheet

Date: 6/20/2017

215THTL7736

Customer: \_\_\_\_\_



Attention: \_\_\_\_\_

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 575 V

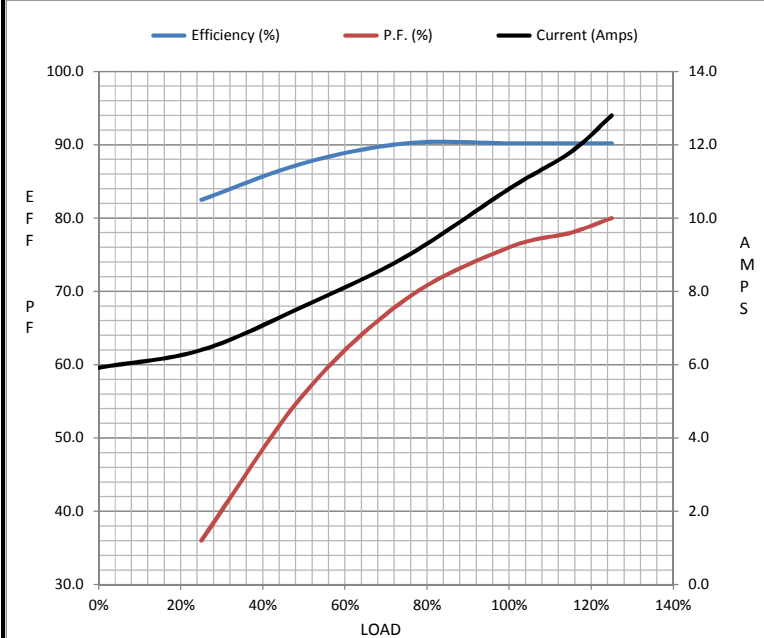
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	5.9	6.4	7.6	9.0	10.8	11.8	12.8	100
Torque (ft-lb)	0.00	7.5	14.7	22.2	29.6	33.4	37.2	110
RPM	1800	1792	1786	1780	1774	1,771	1766	0
Efficiency (%)		82.5	87.5	90.2	90.2	90.2	90.2	
P.F. (%)	7.0	36.0	56.0	69.0	76.0	78.0	80.0	43.0

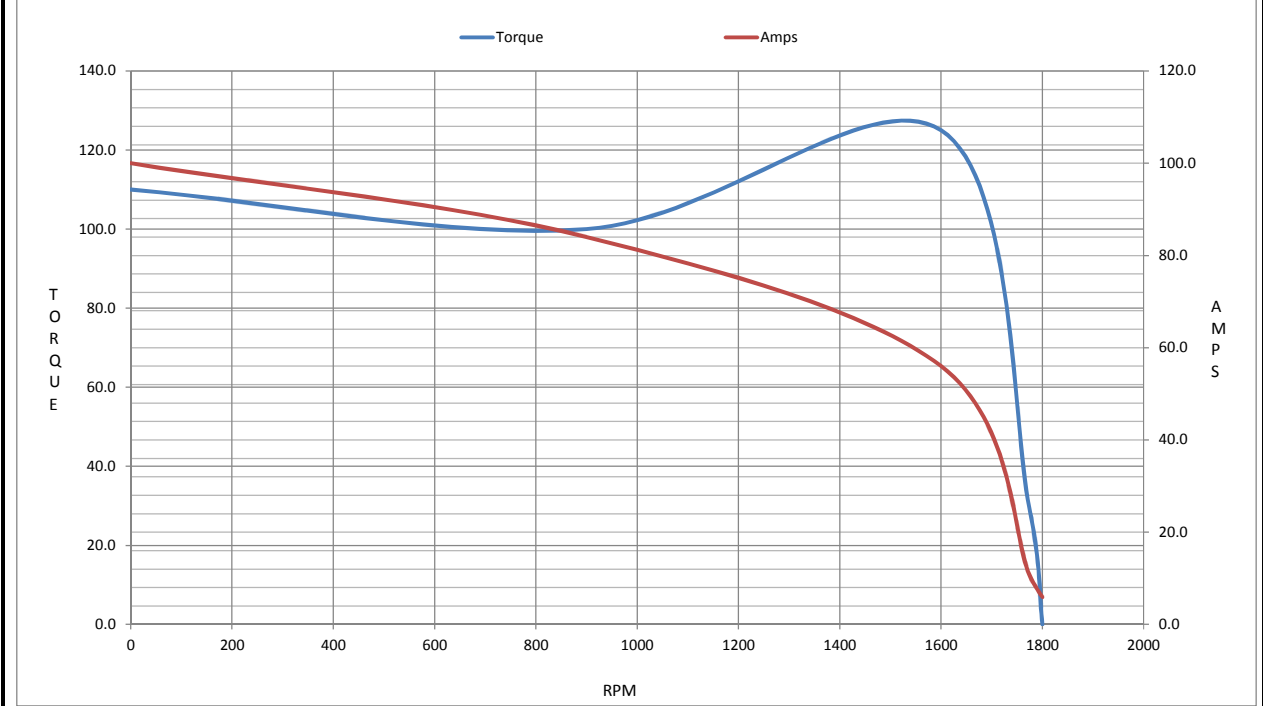
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1774	1800
Current (Amps)	100	84.0	56.0	10.8	5.9
Torque (ft-lb)	110	100	125	29.6	0.00

Information Block				
HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	TENV			
Construction	TTL			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	M			
Service Factor	1.0			
Temp Rise @ FL	90 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	1.30 Lb-Ft <sup>2</sup>			
Ref Wdg	K2154304 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	B-SS330105-1275			
Conn. Diag	A-EE7300T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.4440	0.4440	2.2190	3.5500	54.5810



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 : 215THTL7736

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

Catalog No : Y561

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**