

PRODUCT INFORMATION PACKET

Model No: 213THTL7736

Catalog No: Y560

Black Max® Inverter Duty Speed Ratio Motor, 7.50 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 213TC Frame, TENV



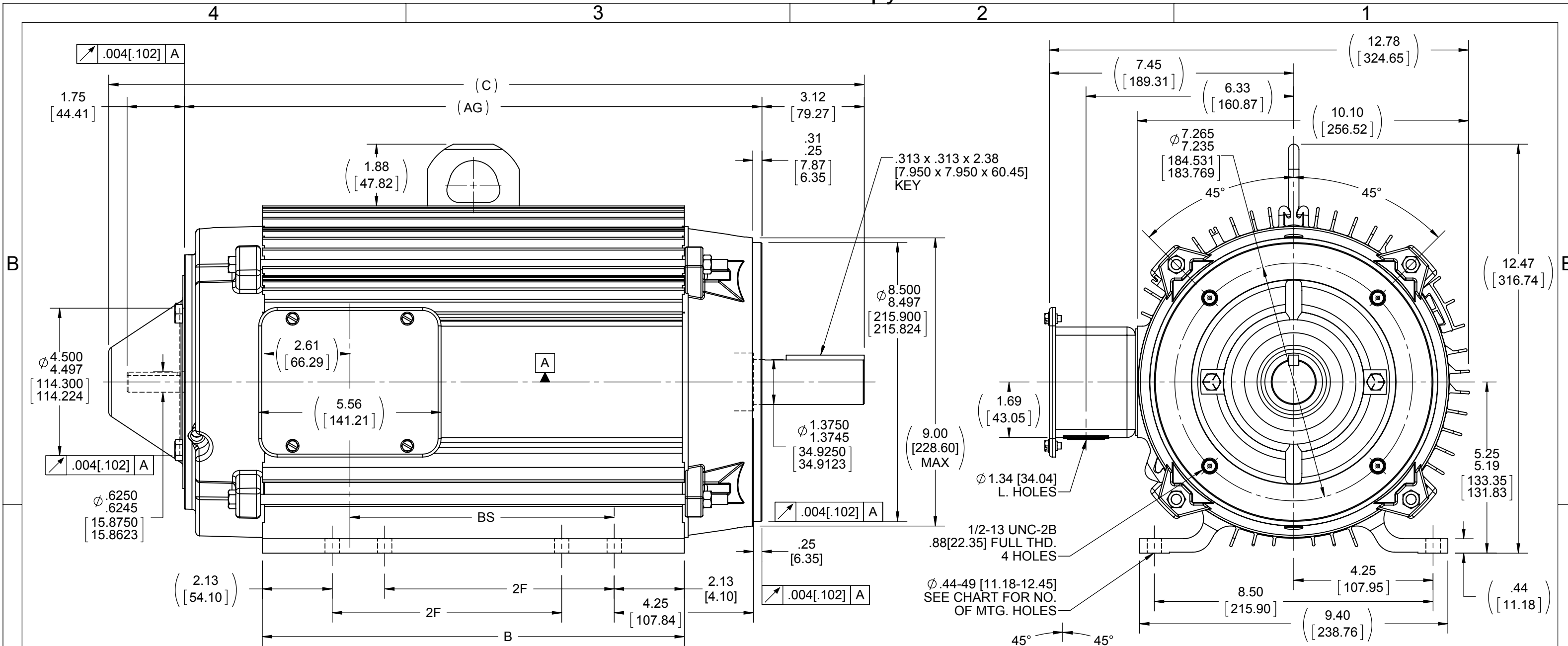
Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E

Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	575 V
Current	8.4 A	Speed	1765 rpm
Service Factor	1	Phase	3
Efficiency	90.2 %	Power Factor	76
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	L
Frame	213TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	1.02 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	20.54 in
Frame Length	10.25 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 1000:1		
Connection Drawing	A-EE7300T	Outline Drawing	B-SS330105-1025



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°.

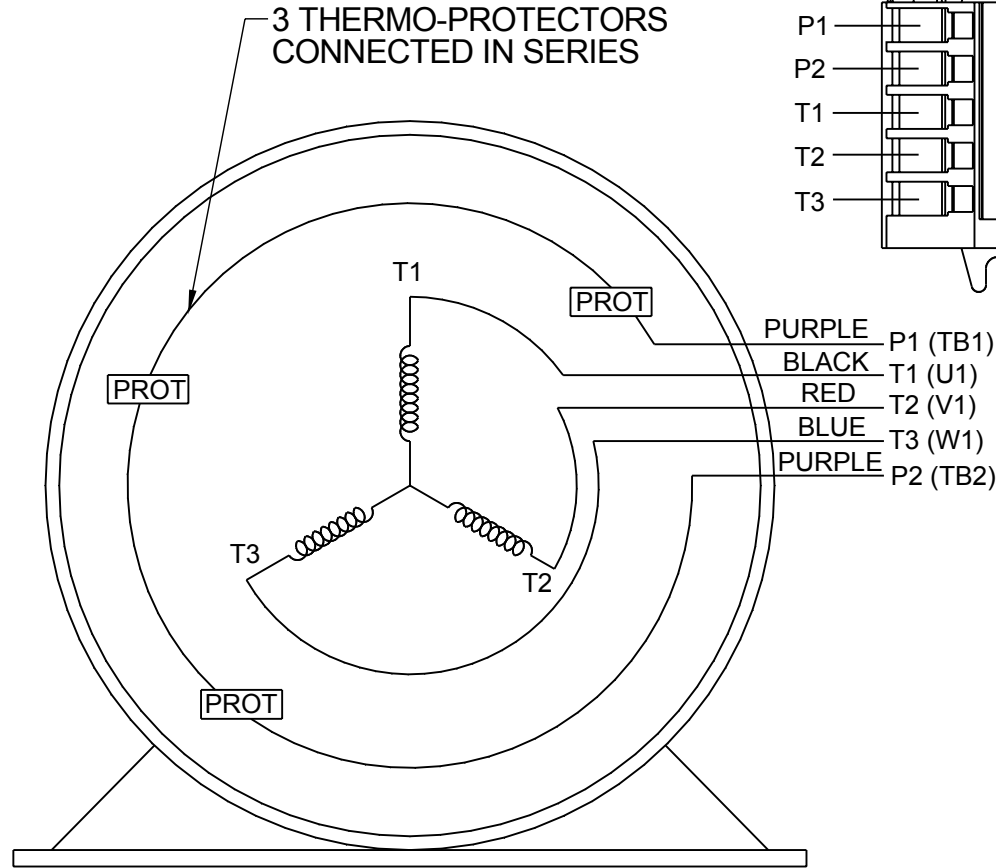
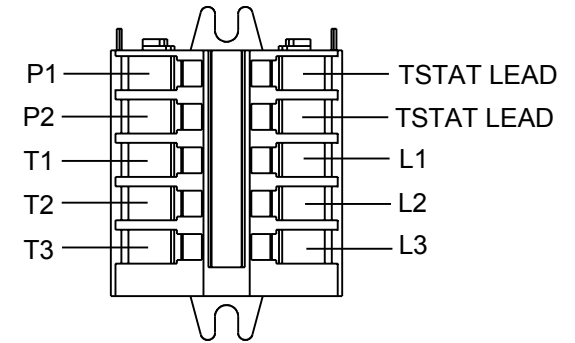
DRAWING REVISION A	REVISION BY JWO	DATE 09-29-2014	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE ±7° 30"	DRAWN BY MKLEIST	Regal Beloit America, Inc.
ECO ECO-0060878	APPROVED BY TB	DATE 09-30-2014	.X ±0.1 [±2.5] .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127]	DATE 02-22-2005	
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.			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]	APPROVED BY CDG	DESCRIPTION 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**

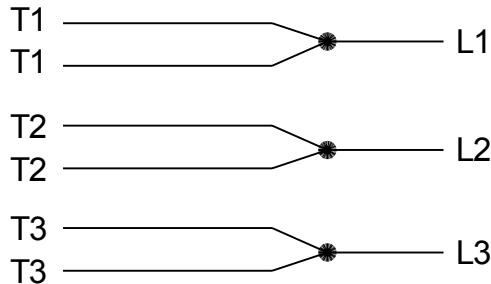
TERMINAL BLOCK WHEN SPECIFIED



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

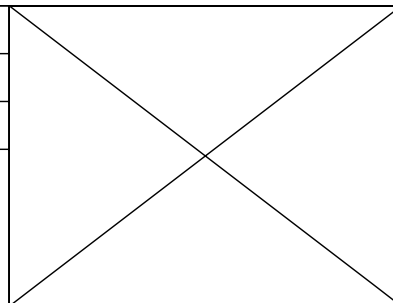
T2BM
T6AW
T6AL
T6Z
T4EG
T4BF
T8A
T6H
T6A
T4AX
T4A
T2A
T2F

**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		
<small>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.</small>		



DRAWN BY LZ	Regal Beloit America, Inc.	
DATE 01-04-1994		
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR	
DATE 01-20-1994	MATERIAL	
REFERENCE	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7300T
		SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 213THTL7736 AC
 CONN. DIAGRAM: A-EE7300T
 OUTLINE: B-SS330105-1025

WINDING#: K2134177 NONE 5
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN			
7 1/2	5.60	1800	1765	213TC	TENV	L	INV			
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION	
3	60	575	8.4	INVERTER ONLY	CONTINUOUS	F3	1.0	40	3300	
FULL LOAD EFF: 90.2		3/4 LOAD EFF: 89.5		1/2 LOAD EFF: 87.5		GTD. EFF		ELEC. TYPE		NO LOAD AMPS
FULL LOAD PF: 76		3/4 LOAD PF: 69		1/2 LOAD PF: 56.5		88.5		SQ CAGE INV DUTY		4.4
F.L. TORQUE		LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C		
22.3 LB-FT		72		59.5 LB-FT 267		95.5 LB-FT 428		80		
SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT				
62 dBA	72 dBA	0.9 LB-FT^2	0 LB-FT^2	0 SEC.	0	150 LBS.				

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.6993	0.567	1.76526	2.26044	38.178
RM	ZREF	XR	TD	TD0
1946.7	37.8	3.2	0.0108	0.189

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLACK (ENAMEL)
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL	
DE	OPE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM	
BALL	BALL							
6309	6206							
THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS		
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	NONE	FALSE	NONE VOLTS		
TSTATS (N/C)	NOT	NONE	NONE					

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED
ENCODER: PROVISIONS ONLY NORTHSTAR ST56 NONE NONE PPR
BRAKE: PROVISIONS ONLY NONE NONE P/N NONE

*
N
O
T
E
S
*

NONE	NONE		
NONE FT-LB	NONE V	NONE Hz	

DATE: 06/21/2017 11:15:01 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 6/19/2017

213THTL7736

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 575 V

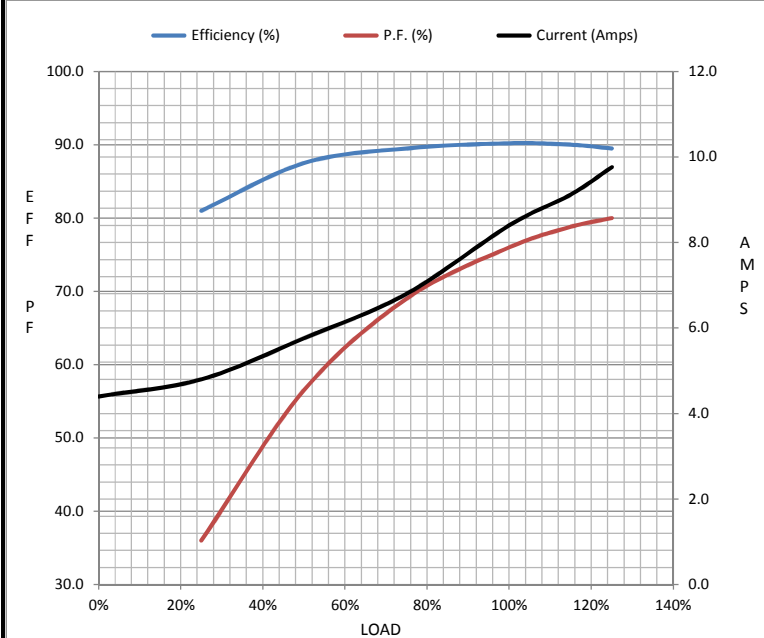
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	4.4	4.8	5.8	6.8	8.4	9.1	9.8	72.0
Torque (ft-lb)	0.00	5.5	11.0	16.8	22.3	25.7	28.0	59.5
RPM	1800	1792	1782	1772	1765	1,760	1755	0
Efficiency (%)		81.0	87.5	89.5	90.2	90.0	89.5	
P.F. (%)	6.5	36.0	56.5	69.0	76.0	78.8	80.0	41.5

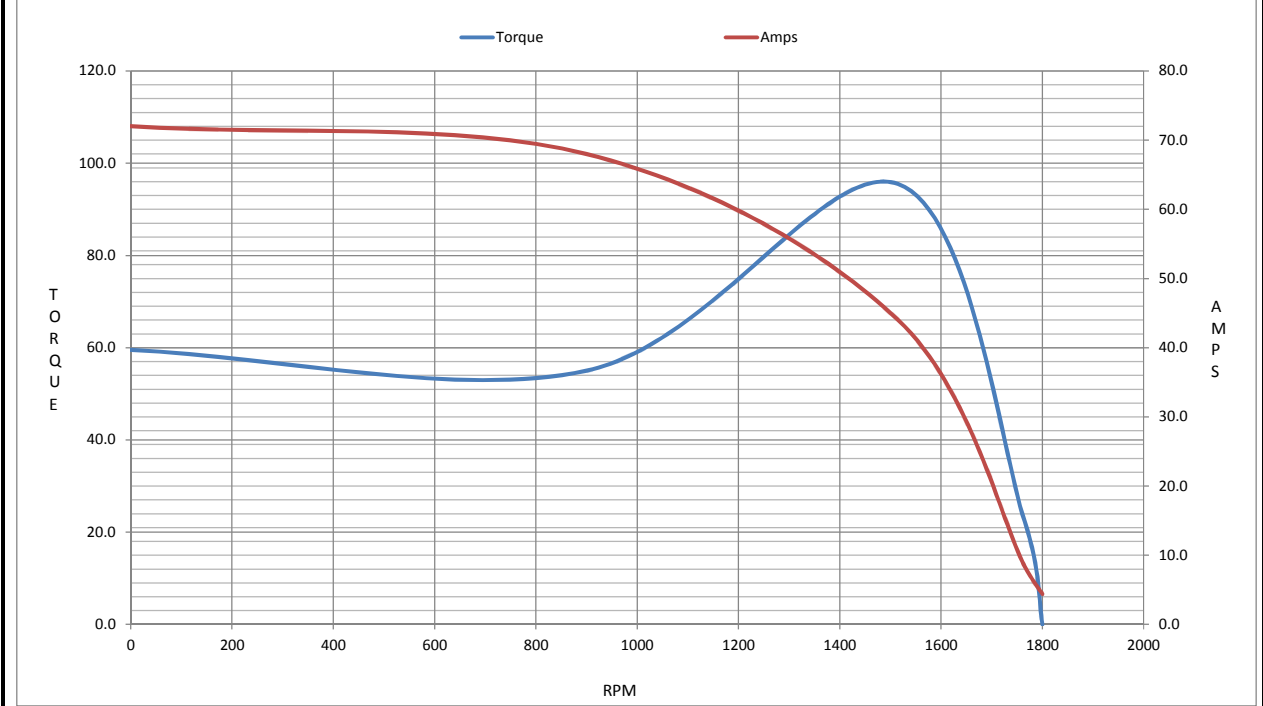
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1515	1765	1800
Current (Amps)	72.0	68.0	44.0	8.4	4.4
Torque (ft-lb)	59.5	55.0	95.5	22.3	0.00

Information Block				
HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	TENV			
Construction	TTL			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	80 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.90 Lb-Ft ²			
Ref Wdg	K2134177 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	B-SS330105-1025			
Conn. Diag	A-EE7300T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.0930	0.8860	2.7580	3.5320	59.6530



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 : 213THTL7736

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

Catalog No : Y560

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