

PRODUCT INFORMATION PACKET

Model No: 215THTL7776

Catalog No: Y544

Black Max® Inverter Duty Speed Ratio Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 215TC Frame,
TENV



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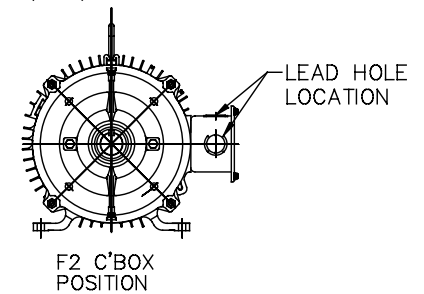
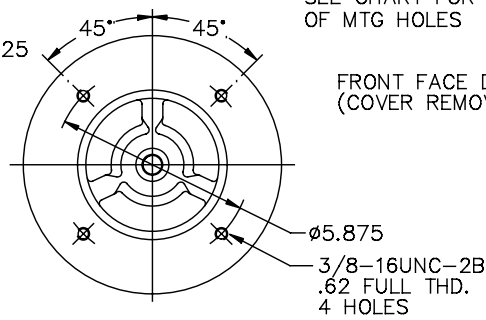
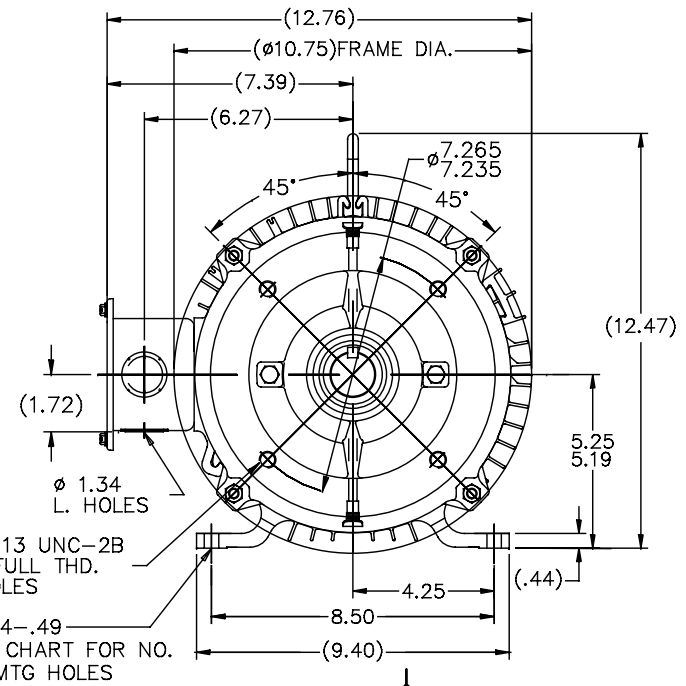
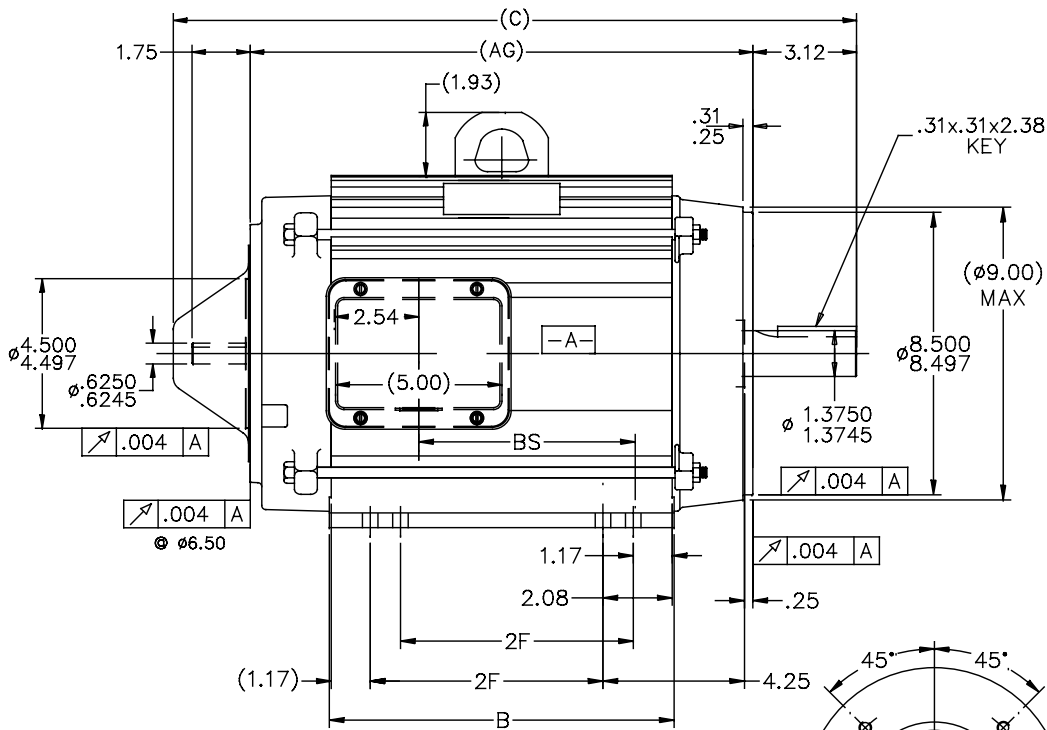
Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	15.4/7.7 A	Speed	1165 rpm
Service Factor	1	Phase	3
Efficiency	84 %	Power Factor	71
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	M
Frame	215TC	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	6	Rotation	Reversible
Resistance Main	1.68 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		
Outline Drawing	B-SS330203-1025	Connection Drawing	A-EE7308T

SS330203



- NOTES:
 1. 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°

DASH	FR.	B	C	2F	AG	BS	F2 CAPABLE	NO. OF MTO HOLES
1025	215	10.37	20.54	7.00	15.11	6.55	YES	8

		TOLERANCES UNLESS SPECIFIED		DRAWN DRS 07-19-2006	
		DEC.	INCHES	CHK	ML 07-19-2006
		.X	±.1		APPD GK 07-19-2006
3	UPDATED TO REGAL LOGO	SAJ 07-27-2015	ST .XX ±.03	TITLE OUTLINE	
2	UPDATED BS DIMENSION	ECO-0047490	JWO 04-30-2014	210 FR. - TENV - DBL. C' FACE	
1	UPDATED DRAWING	RJW 04-12-2007	.XXX ±.005	REF 215THL7776	
			.XXXX ±.0005	FMF DES. DEV.	
NO.	REVISION	BY & DATE	CHK ANG ±1/2°	PREV SS330105	
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	CAD FILE SS330203	
			DIST LB	SIZE B	DRAWING NO. SS330203
				PAGE OF	REV. 3

HIGH VOLTAGE



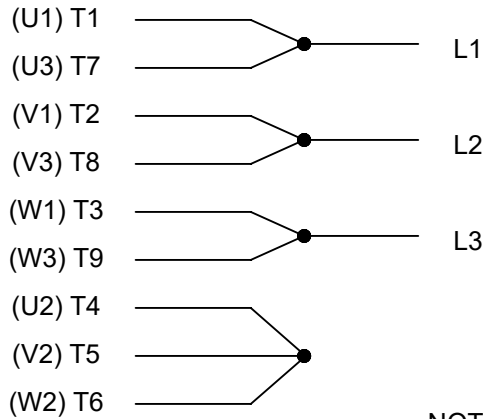
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992	
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T
			THIRD ANGLE PROJECTION		

CERTIFICATION DATA SHEET

Model#: 215HTL7776 CE WINDING#: K2156126 NONE 6
 CONN. DIAGRAM: A-EE7308T ASSEMBLY: F1/F2 CAPABLE
 OUTLINE: B-SS330203-1025

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN			
5	3.70	1200	1165	215TC	TENV	M	INV			
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION	
3	60	230/460	15.4/7.7	INVERTER ONLY	CONTINUOUS	F3	1.0	40	3300	
FULL LOAD EFF: 84		3/4 LOAD EFF: 84		1/2 LOAD EFF: 81.5		GTD. EFF		ELEC. TYPE		NO LOAD AMPS
FULL LOAD PF: 71		3/4 LOAD PF: 64		1/2 LOAD PF: 51		81.5		SQ CAGE INV DUTY		9.4 / 4.7
F.L. TORQUE		LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C		
22.5 LB-FT		125 / 62.5		69.5 LB-FT 309		87 LB-FT 387		85		
SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT				
60 dBA	70 dBA	0.95 LB-FT^2	0 LB-FT^2	0 SEC.	0	146 LBS.				

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
1.13032	1.2496	3.70904	2.57304	51.972
RM	ZREF	XR	TD	TD0
2743.44	56.8	2.8	0.0076	0.115

*** 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						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM
6309	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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
NONE NONE
NONE NONE PPR
BRAKE: PROVISIONS ONLY NONE
NONE P/N NONE

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NONE	NONE		
NONE FT-LB	NONE V	NONE Hz	

DATE: 06/22/2017 07:09:36 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 19-06-2017
Customer: _____
Attention: _____
Submitted by: FAREEDA DUDEKULA



215THTL7776

Submittal

Data @ **460 V**

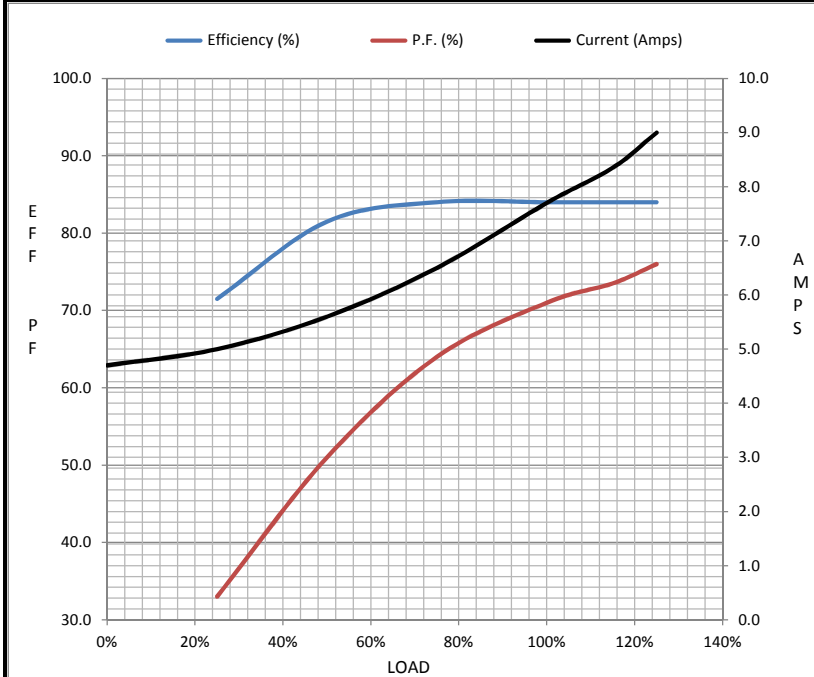
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	4.7	5.0	5.6	6.5	7.7	8.4	9.0	62.5
Torque (ft-lb)	0.00	5.5	11.0	17.0	22.5	25.5	28.5	69.5
RPM	1200	1190	1180	1172	1165	1,160	1152	0
Efficiency (%)		71.5	81.5	84.0	84.0	84.0	84.0	
P.F. (%)	9.0	33.0	51.0	64.0	71.0	73.5	76.0	47.0

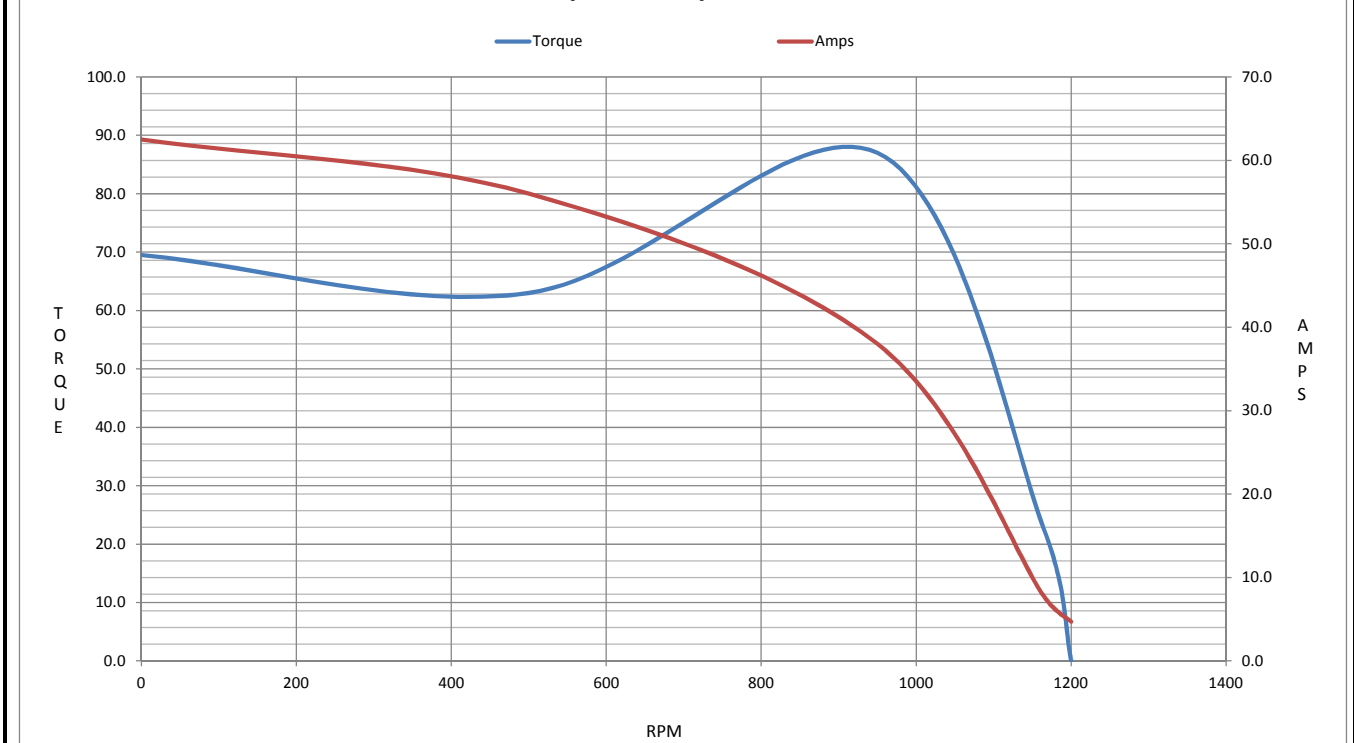
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	500	950	1165	1200
Current (Amps)	62.5	56.0	38.0	7.7	4.7
Torque (ft-lb)	69.5	63.0	87.0	22.5	0.00

Information Block				
HP	5.0			
Sync. RPM	1200			
Frame	215			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	M			
Service Factor	1.15			
Temp Rise @ FL	85 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.95 Lb-Ft ²			
Ref Wdg	K2156126 NONE			
Sound Pressure @ 1M	60 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	B-SS330203-1025			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.1300	1.2500	3.7090	2.5730	51.9720



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 : 215THTL7776

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

Catalog No : Y544

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