PRODUCT INFORMATION PACKET

Model No: 213THFW7726
Catalog No: Y994
7 1/2,1800,TEFC,213TC,3/60/230/460
1000:1 Speed Ratio

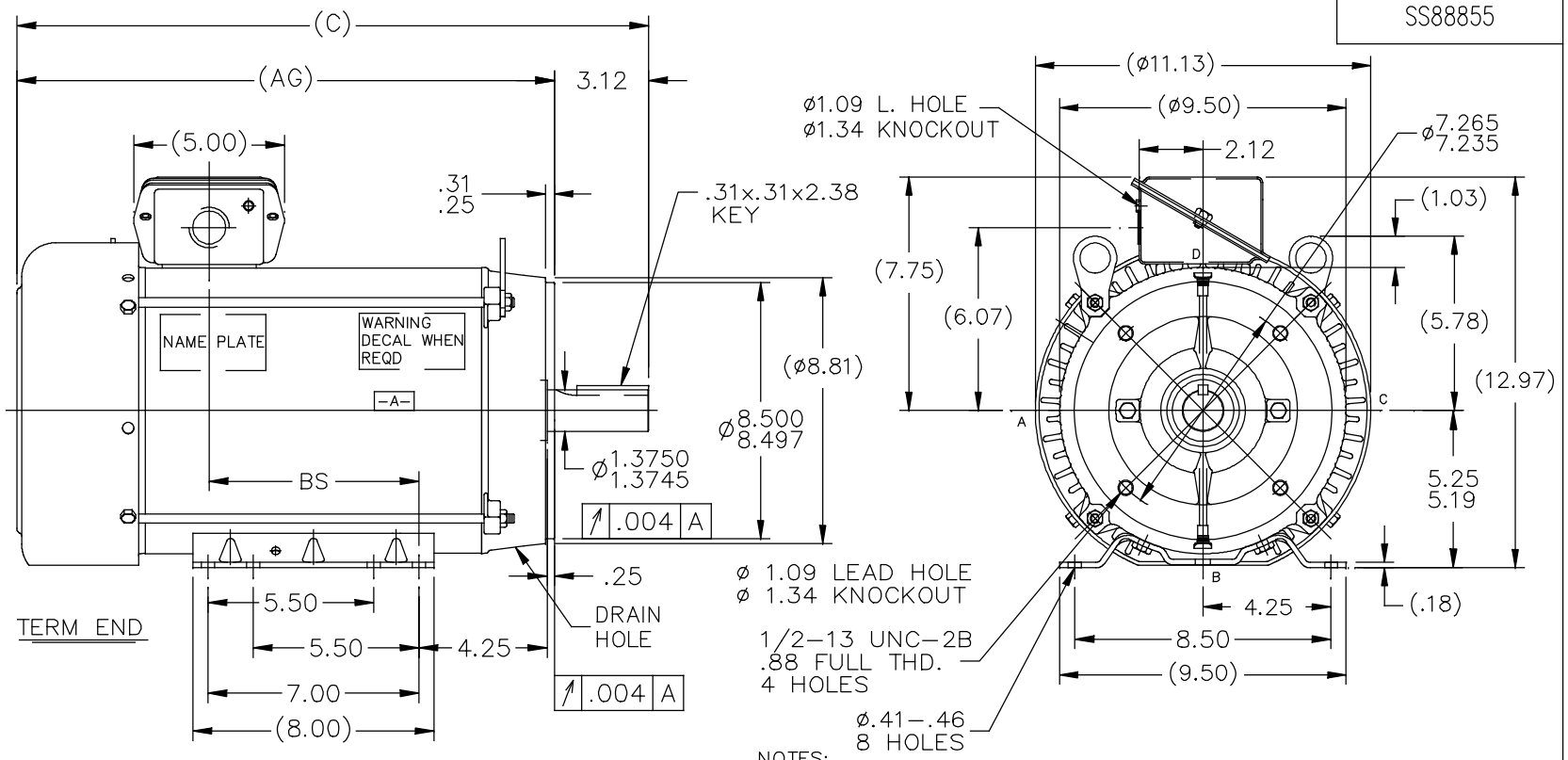
Nameplate Specifications

Output HP	**7.50 Hp**	Output KW	**5.6 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**21.4/10.7 A**	Speed	**1770 rpm**
Service Factor	**1**	Phase	**3**
Efficiency	**89.5 %**	Duty	**Continous**
Insulation Class	**H**	Design Code	**INV**
KVA Code	**K**	Frame	**213TC**
Enclosure	**Totally Enclosed Fan Cooled**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**		

Technical Specifications

Electrical Type	**Squirrel Cage Inverter Duty**	Starting Method	**Inverter Only**
Poles	**4**	Rotation	**Reversible**
Mounting	**Bolt-on Base**	Motor Orientation	**Horizontal Or Shaft Down**
Drive End Bearing	**Ball**	Opp Drive End Bearing	**Ball**
Frame Material	**Rolled Steel**	Shaft Type	**T**
Overall Length	**20.97 in**	Frame Length	**11.15 in**
Shaft Diameter	**1.375 in**	Shaft Extension	**3.12 in**
Assembly/Box Mounting	**F3**		
Outline Drawing	**A-SS88855-1115**	Connection Diagram	**A-EE7308**

SS88855



DASH	FR.	C	AG	BS	MOUNTING
965	213T	19.47	16.35	5.43	
1115	213/15T	20.97	17.85	6.93	
1240	213/15T	22.22	19.10	8.18	F1 ONLY

NOTES:
1. NAMEPLATE LOC. BETWEEN C & D READ FROM LOC. C
2. BOX CAN BE MOUNTED IN 90° STEPS.
3. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180° (EXCEPT AS NOTED.)
4. BASE IS REMOVABLE.
5. PROVISIONS ONLY FOR DRIP COVER.

NO.	REVISION	BY & DATE	CHK
2	ADDED WARNING DECAL	MVG 12/19/17	GR
1	NEW DRAWING	NJS 04-25-2003	TB

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Regal Beloit America, Inc.

DRAWN NJS 04-25-2003
CHK DRS 04-25-2003
APPD TB 04-25-2003
SCALE 1=5
REF
FMF
PREV

TITLE OUTLINE - TEFC
210T FR. - BB - TS - R/S - C'FACE

MAT'L.
FINISH
CAD FILE ss88855
RFP
DIST LB

SIZE A | DRAWING NO. SS88855 | PAGE OF | REV. 2

EE7308

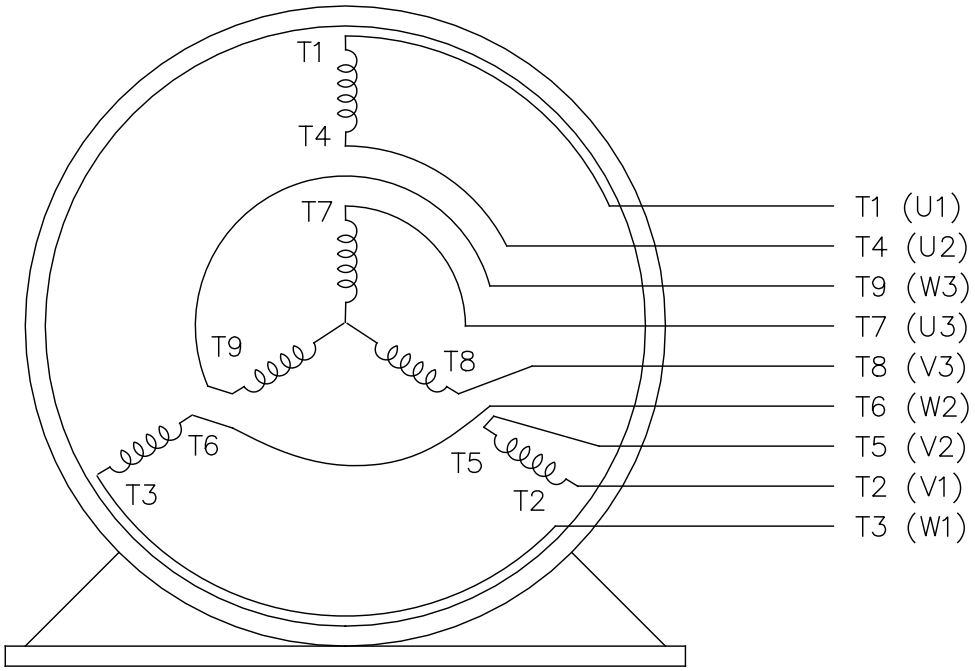
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

NO.	REVISION	BY & DATE	CHK
5	CHG TO REGAL LOGO	SL 09/10/2015	AB
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS
1	REDRAWN	RM 11/20/1990	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3ø – DUAL VOLTAGE MOTOR

MAT'L.
FINISH
CAD FILE ee7308
RFP
DIST WP

DRAWN RM	11/20/1990
CHK ML	11/21/1990
APPD SAS	04/24/2003
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. EE7308 | PAGE OF | REV. 5

CERTIFICATION DATA SHEET

Model#:	213THFW7726 BB	**WINDING#:**	K2134228 NONE 1
CONN. DIAGRAM:	A-EE7308	**ASSEMBLY:**	F3
OUTLINE:	A-SS88855-1115		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.6	1800	1770	213TC	TEFC	K	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	21.4/10.7	INVERTER ONLY	CONTINUOUS	H3	1.0	40	3300

FULL LOAD EFF: 89.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 87.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 72.5	3/4 LOAD PF: 65	1/2 LOAD PF: 52	87.5	SQ CAGE INV DUTY	12.4 / 6.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.3 LB-FT	152 / 76	61 LB-FT 274	80 LB-FT 359	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.75 LB-FT^2	0 LB-FT^2	0 SEC.	0	125 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.70686	0.48762	2.38518	3.20922	41.3532

RM	ZREF	XR	TD	TD0
3519.18	37.8	3.7	0.012	0.245

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	BOLT-ON	HORIZONTAL OR SHAFT DOWN	FALSE	NONE	PROVISIONS ONLY	NONE	BLACK (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6309	6206						

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

INVERTER TORQUE: CONSTANT 20:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE

* NOTES *

NONE	P/N NONE		
NONE	NONE		
- FT-LB	NONE V	NONE Hz	

DATE: 06/21/2017 11:02:02 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

marathon electric

213THFW7726

Submittal

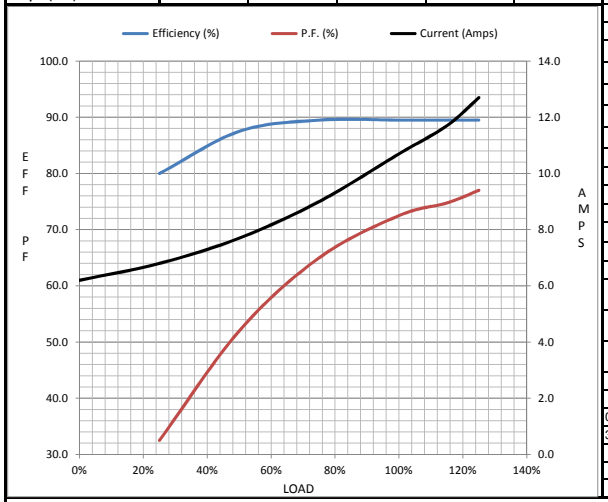
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.2	6.8	7.7	9.0	10.7	11.7	12.7	76.0	
Torque (ft-lb)	0.00	5.5	11.0	16.8	22.3	25.2	28.0	61.0	
RPM	1800	1792	1785	1778	1770	1,766	1760	0	
Efficiency (%)		80.0	87.5	89.5	89.5	89.5	89.5		
P.F. (%)	6.5	32.5	52.0	65.0	72.5	74.8	77.0	43.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	1600	1770	1800
Current (Amps)	76.0	68.0	45.0	10.7	6.2
Torque (ft-lb)	61.0	72.0	80.0	22.3	0.00



Information Block

HP	7.5
Sync. RPM	1800
Frame	213
Enclosure	TEFC
Construction	TFW
Voltage	230/460 V
Frequency	60 Hz
Design	A
LR Code letter	K
Service Factor	1.15
Temp Rise @ FL	45 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.75 Lb-Ft²
Ref Wdg	K2134228 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	CONSTANT 20:1
Outline Dwg	A-SS88855-1115
Conn. Diag	A-EE7308

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.7070	0.4880	2.3850	3.2090	41.3530

Speed -Torque Curve