PRODUCT INFORMATION PACKET

Model No: 213TPFRB10230
Catalog No: SY068
7.5,1800,TEFC,213TC,3/90/230/460
SyMAX - Permanent Magnet AC Motors

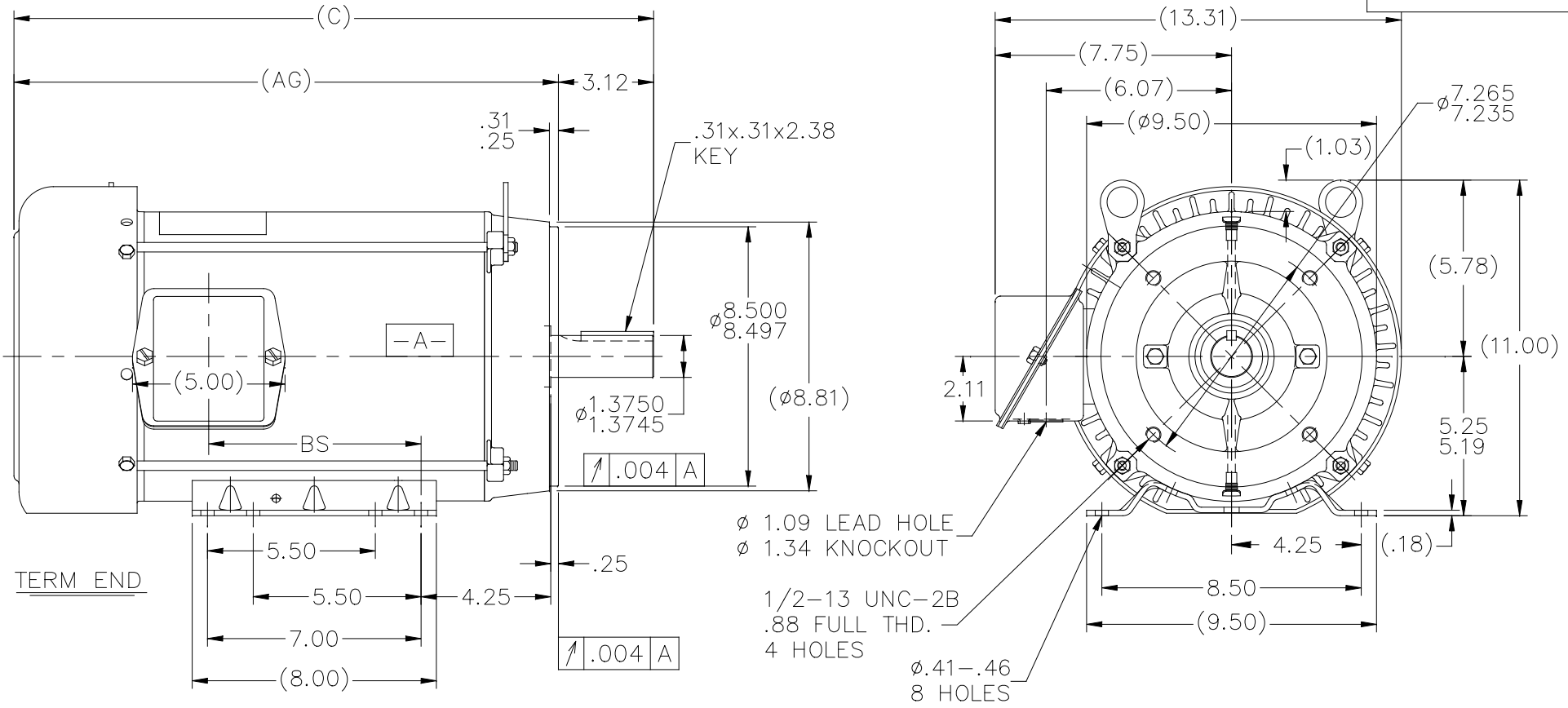
Nameplate Specifications

Output HP	**7.5 Hp**	Output KW	**5.6 kW**
Frequency	**90 Hz**	Voltage	**230/460 V**
Current	**17.2/8.6 A**	Speed	**1800 rpm**
Service Factor	**1**	Phase	**3**
Efficiency	**93.8 %**	Duty	**CONTINUOUS**
Insulation Class	**F**	Design Code	**PM**
KVA Code	**NO KVA CODE**	Frame	**213TC**
Enclosure	**TEFC**	Overload Protector	**NOT**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**Y**	CE	**N**
IP Code	**43**		

Technical Specifications

Electrical Type	**AC PERMANENT MAGNET**	Starting Method	**INVERTER ONLY**
Poles	**6**	Rotation	**REV**
Mounting	**BOLT-ON**	Motor Orientation	**HORIZONTAL**
Drive End Bearing	**BALL**	Opp Drive End Bearing	**BALL**
Frame Material	**ROLLED STEEL**	Shaft Type	**T**
Overall Length	**19.47 in**	Frame Length	**9.65 in**
Shaft Diameter	**1.38 in**	Shaft Extension	**3.12 in**
Assembly/Box Mounting	**F1 ONLY**		
Outline Drawing	**036254-965**	Connection Diagram	**EE7308T**

036254



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 TO BE READ FROM C'BOX SIDE OF MOTOR.
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.)
3. (NOT FIELD MODIFIABLE ON PMAC)

NO.	REVISION	BY & DATE

TOLERANCES UNLESS SPECIFIED

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

CHK

REGAL™ Regal Beloit America, Inc.

DRAWN GR 06–10–16
CHK
APPD
SCALE 1=5
REF
FMF
PREV

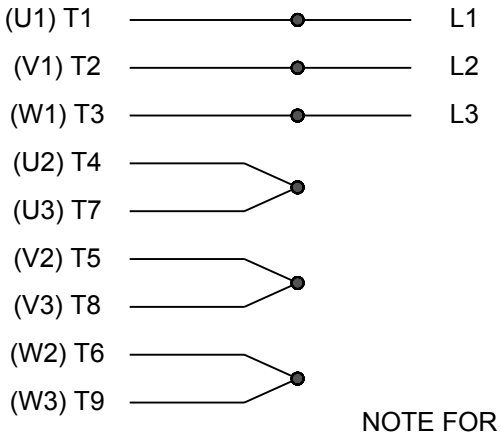
TITLE OUTLLINE
210T FR. – BB – TS – TEFC– R/S–C' FACE

MAT'L.
FINISH

RFP SS86630
CAD FILE 036254
DIST LB

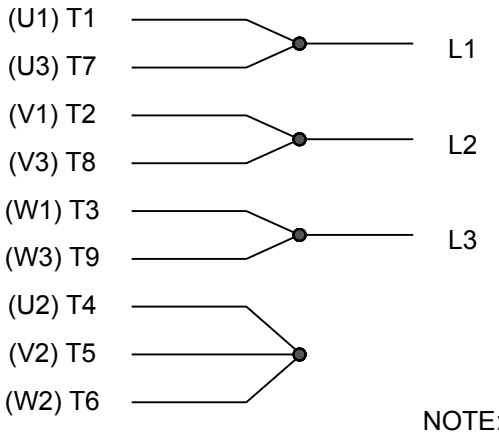
SIZE A | DRAWING NO. 036254 | PAGE OF | REV.

HIGH VOLTAGE

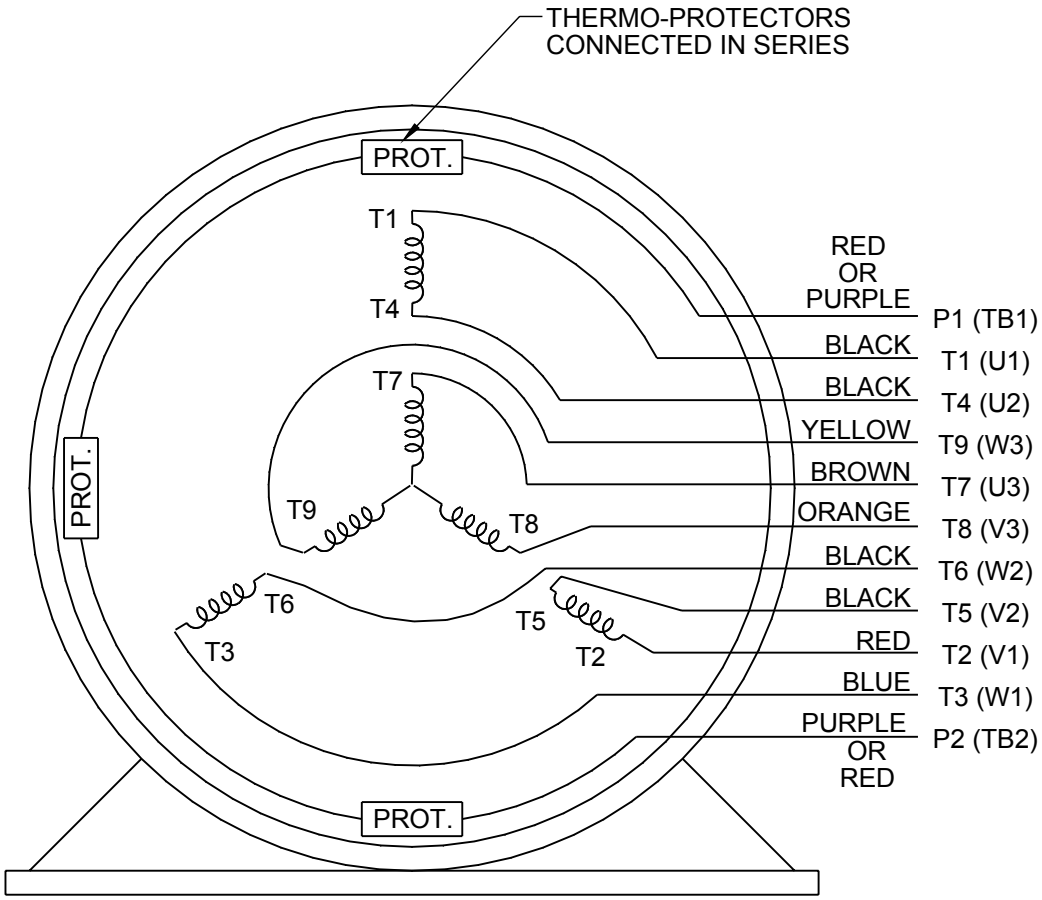


NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



THREE PHASE DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

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

DRAWING REVISION: R	REVISION BY: AJW	DATE: 07-17-2015		DRAWN BY: SMC	Regal Beloit America, Inc.
ECO: ECO-0081632	APPROVED BY: T. VUE	DATE: 07-17-2015		DATE: 05-13-1992	
ECO DESCRIPTION: REV'D IEC NOTATIONS PER IEC 60034-8				APPROVED BY: TB	DESCRIPTION: CONN DIAGRAM-INTERNAL, 3 PHASE - DUAL VOLTAGE MOTOR
				DATE: 05-13-1992	
				REFERENCE: EE7308/EE7300	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A; DRAWING NUMBER: EE7308T; SHEET: 1 OF 1

CERTIFICATION DATA SHEET

Model#:	213TPFRB10230 AA	**WINDING#:**	PM21506025 NONE 2
CONN. DIAGRAM:	EE7308T	**ASSEMBLY:**	F1 ONLY
OUTLINE:	036254-965		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.6	1800	1800	213TC	TEFC	NO KVA CODE	PM

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	90	230/460	17.2/8.6	INVERTER ONLY	CONTINUOUS	F1	1.0	40	3300

FULL LOAD EFF: 93.8	3/4 LOAD EFF: -	1/2 LOAD EFF: -	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86.3	3/4 LOAD PF: -	1/2 LOAD PF: -	92.4	AC PERMANENT MAGNET	.8 / .4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
21.88 LB-FT	/	- LB-FT -	- LB-FT -	34

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.58 LB-FT^2	0 LB-FT^2	0 SEC.	0	94 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0	0.67	15	28.3	226

RM	ZREF	XR	TD	TD0
0	1	0	0	0

*** 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	FALSE	NONE	FALSE	NONE	BLACK (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6309	BALL 6206	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS 140(N/C)	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: 1.2 X BASE SPEED

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE

* NOTES *

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

DATE: 06/22/2017 04:15:36 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.