PRODUCT INFORMATION PACKET

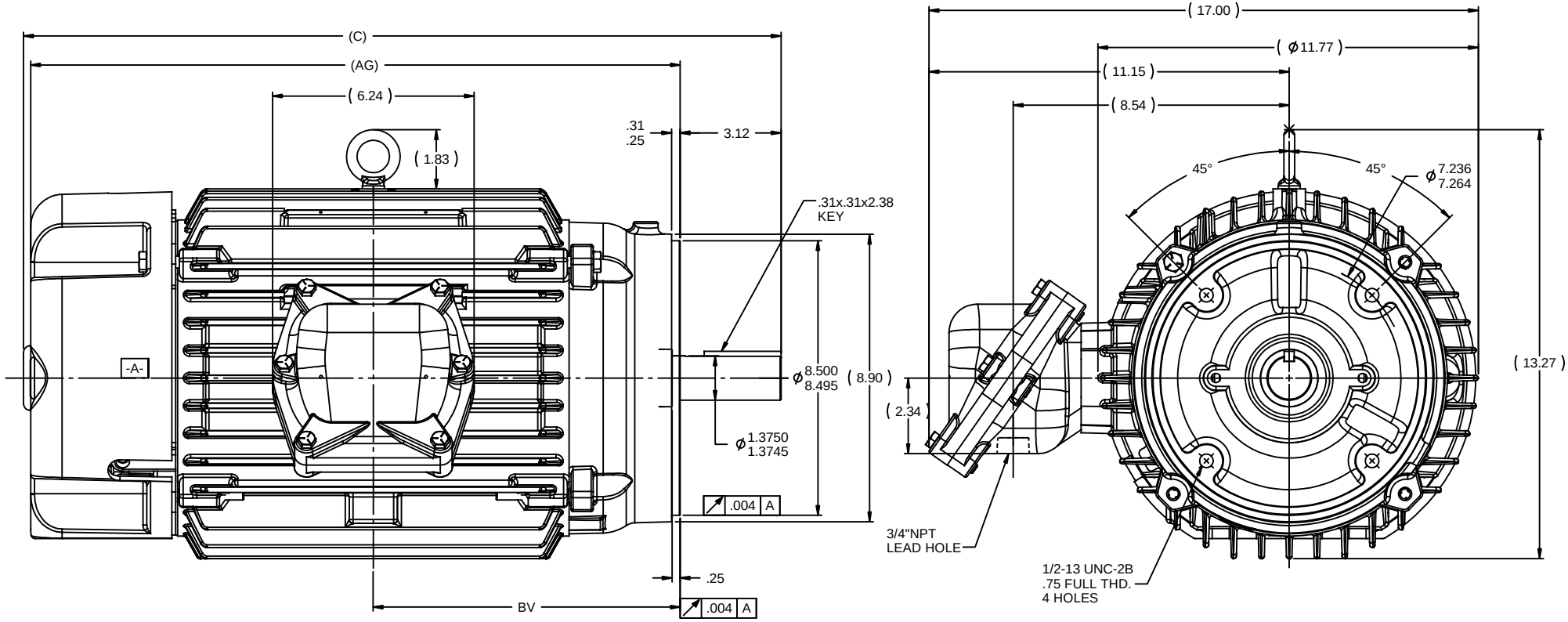
Model No: 213TTGND16001
Catalog No: C305B
7 1/2,3600,EPFC,213TC,3/60/230/460
Explosion Proof

Nameplate Specifications

Output HP	**7.50 Hp**	Output KW	**5.6 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**18.2/9.1 A**	Speed	**3525 rpm**
Service Factor	**1**	Phase	**3**
Efficiency	**89.5 %**	Duty	**Continous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**H**	Frame	**213TC**
Enclosure	**Explosion Proof Fan cooled**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6208**	UL	**No**
CSA	**N**	CE	**N**
IP Code	**54**		

Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Mounting	**Round**	Motor Orientation	**Horizontal**
Drive End Bearing	**Ball**	Opp Drive End Bearing	**Ball**
Frame Material	**Cast Iron**	Shaft Type	**T**
Overall Length	**23.45 in**	Frame Length	**12.12 in**
Shaft Diameter	**1.375 in**	Shaft Extension	**3.12 in**
Assembly/Box Mounting	**F1 Only**		
Outline Drawing	**037703-1212**	Connection Diagram	**EE7308T**



NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ, TITLED "MOTOR AND GENERATORS,. REBUILT FOR USE IN HAZARDOUS LOCATION".
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	C	AG	BV
912	213/215	20.45	17.11	8
1212	213/215	23.45	20.11	9.5

NO	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

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

MARATHON ELECTRIC

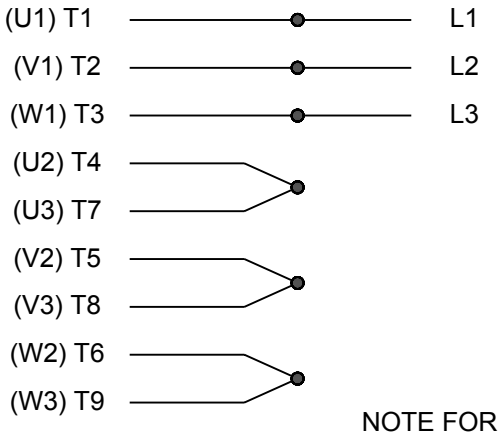
TITLE OUTLINE
210 FR. - EPFC - C'FACE

MAT'L
FINISH
RFP
CAD FILE 037703
DIST LB - MT2

DRAWN	PN 9/2/2010
CHK	AK 9/2/2010
APPR	
SCALE	1:8
REF	037660
FMF	
PREV	

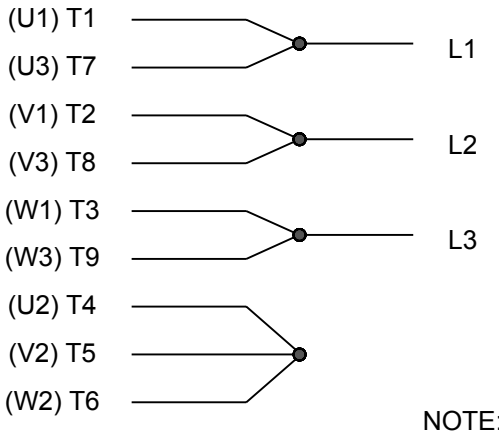
SIZE B | DRAWING NO 037703 | REV

HIGH VOLTAGE

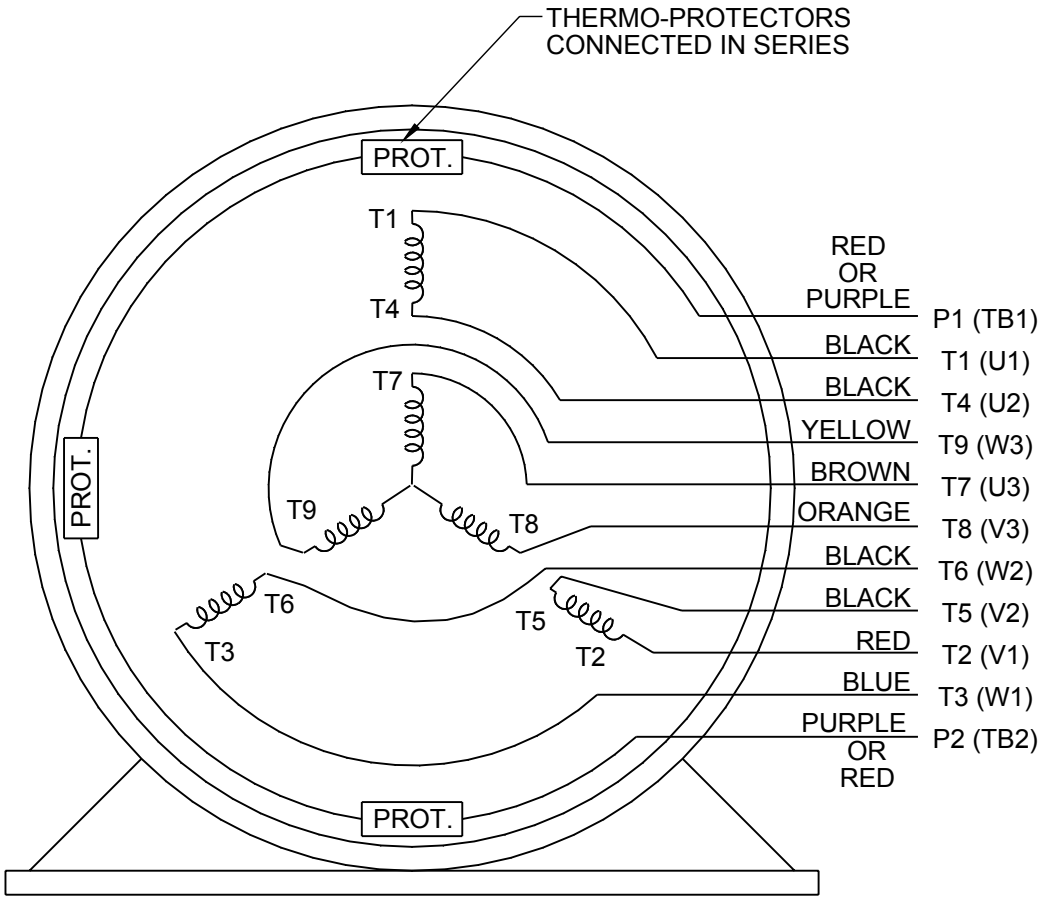


NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

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#:	213TTGND16001 AA	**WINDING#:**	K2132125 NONE 2
CONN. DIAGRAM:	EE7308T	**ASSEMBLY:**	F1 ONLY
OUTLINE:	037703-1212		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	3600	3525&2935	213TC	EPFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	18.2/9.1&15.4/7.7	LINE OR INVERTER	CONTINUOUS	B3	1.0/1.0	40	3300

FULL LOAD EFF: 89.5&88	3/4 LOAD EFF: 89.6	1/2 LOAD EFF: 88.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86.2&78	3/4 LOAD PF: 81.6	1/2 LOAD PF: 77	87.5	SQ CAGE INV RATED	7.2 / 3.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.2 LB-FT	110 / 55	20.6 LB-FT 184	30.8 LB-FT 275	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.45 LB-FT^2	12 LB-FT^2	15 SEC.	2	150 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	TRUE	EXP PROOF CL I GR D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6309	BALL 6208	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

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

* NOTES *

DATE: 06/22/2017 06:45:56 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

213TTGND16001

Submittal

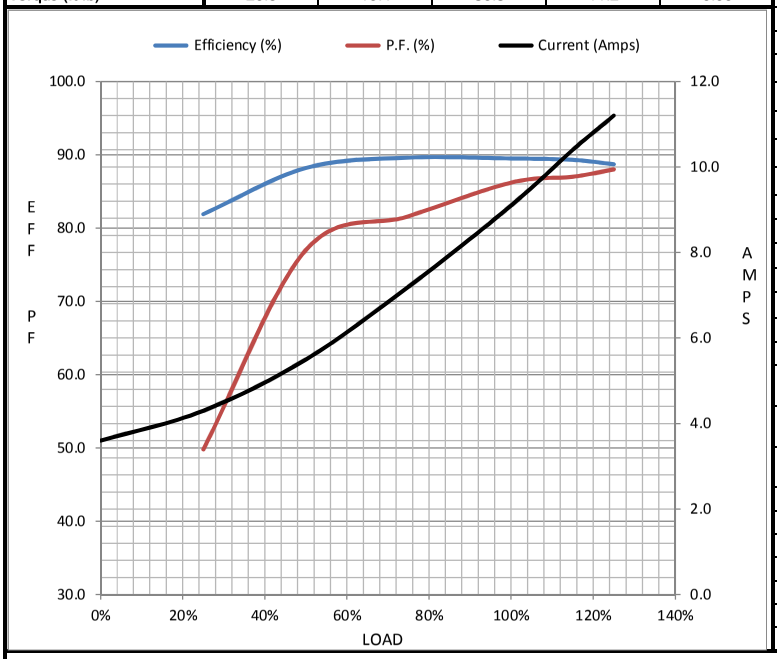
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.6	4.3	5.5	7.2	9.1	10.4	11.2	55.0	
Torque (ft-lb)	0.00	2.70	5.5	8.3	11.2	12.9	14.1	20.6	
RPM	3600	3580	3563	3544	3525	3,515	3500	0	
Efficiency (%)		81.9	88.2	89.6	89.5	89.3	88.7		
P.F. (%)	9.5	49.8	77.0	81.6	86.2	87.0	88.0	48.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	630	3043	3525	3600
Current (Amps)	55.0	54.9	35.6	9.1	3.6
Torque (ft-lb)	20.6	19.4	30.8	11.2	0.00



Information Block

HP	7.5
Sync. RPM	3600
Frame	213
Enclosure	TEFC
Construction	TFN
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	50 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.45 Lb-Ft²
Ref Wdg	K2132125 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	037703-1212
Conn. Diag	EE7308T
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.0850	0.9530	2.7870	1.5810	67.0510

Speed -Torque Curve