PRODUCT INFORMATION PACKET

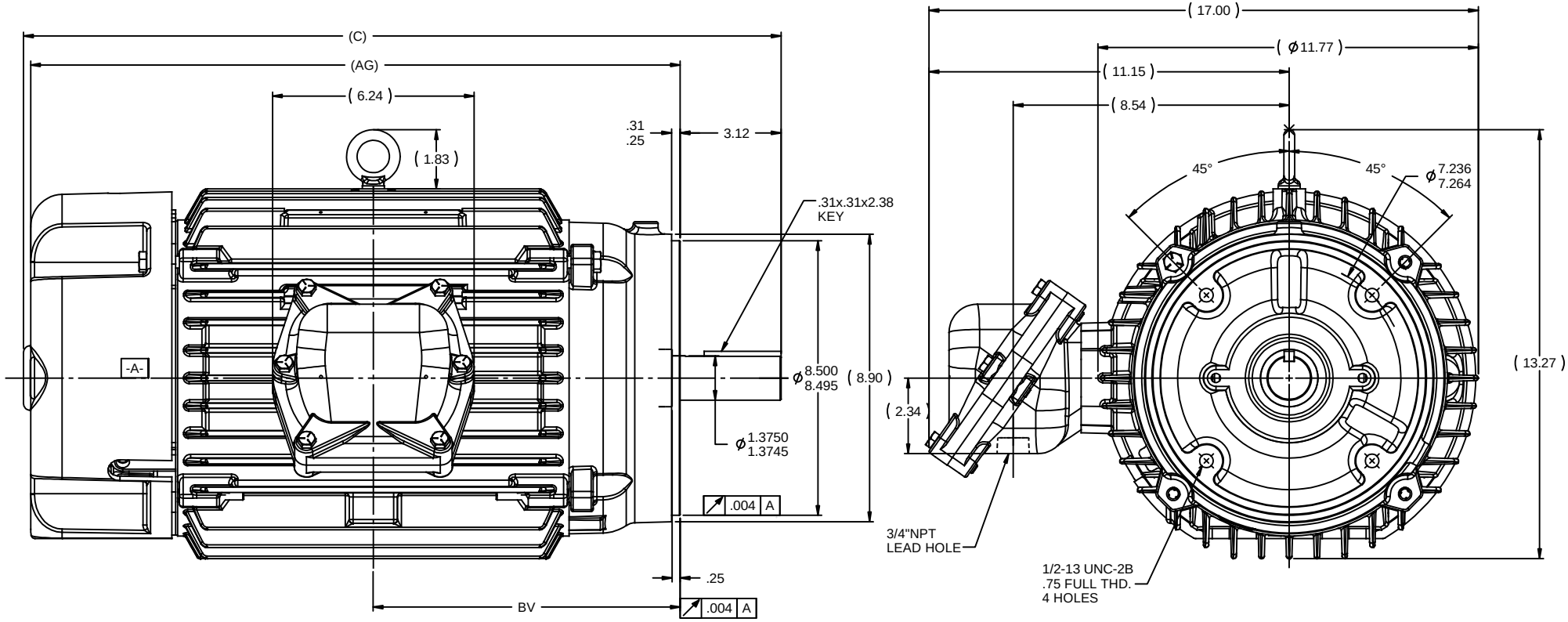
Model No: 215TTGND16006
Catalog No: C306B
10,3600,EPFC,215TC,3/60/230/460
Explosion Proof

Nameplate Specifications

Output HP	**10 Hp**	Output KW	**7.5 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**23.8/11.9 A**	Speed	**3520 rpm**
Service Factor	**1**	Phase	**3**
Efficiency	**90.2 %**	Duty	**Continous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**H**	Frame	**215TC**
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
1212	213/215	23.45	20.11	9.5
912	213/215	20.45	17.11	8

NO	REVISION	BY & DATE	CHK

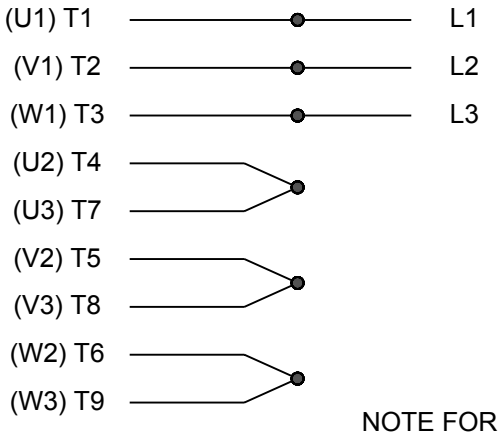
TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.02
.XXX ±.005
.XXXX ±.0005
ANG ±7'30"

MARATHON ELECTRIC

DRAWN PN 9/2/2010
CHK AK 9/2/2010
APPR
TITLE OUTLINE
210 FR. - EPFC - C'FACE
SCALE 1:8
REF 037660
FMF
MAT'L
FINISH
PREV

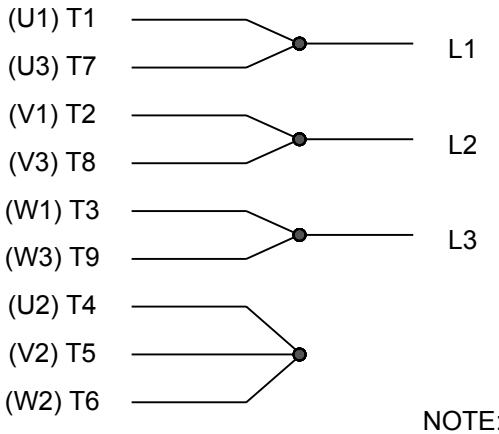
RFP
CAD FILE 037703
DIST LB - MT2
SIZE B
DRAWING NO 037703
REV

HIGH VOLTAGE

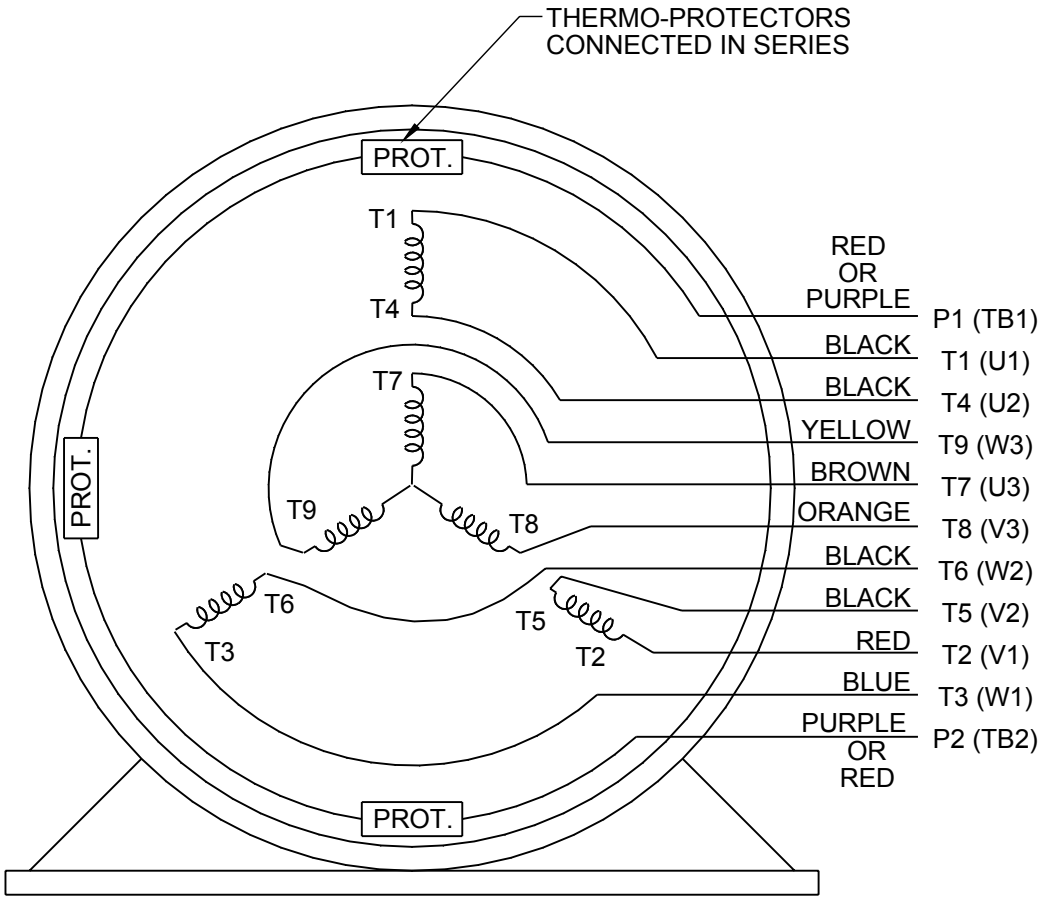


NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

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#:	215TTGND16006 AA	**WINDING#:**	K2152227 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
10&7 1/2	7.5&5.6	3600	3520	215TC	EPFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	23.8/11.9&22/11	LINE OR INVERTER	CONTINUOUS	F3	1.0/1.0	40	3300

FULL LOAD EFF: 90.2	3/4 LOAD EFF: 90.6	1/2 LOAD EFF: 89.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87.1	3/4 LOAD PF: 83.3	1/2 LOAD PF: 74.4	88.5	SQ CAGE INV RATED	8.8 / 4.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
14.9 LB-FT	156 / 78	29 LB-FT 195	46 LB-FT 309	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.55 LB-FT^2	18 LB-FT^2	15 SEC.	2	120 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	FALSE	EXP PROOF CL I GR D CL II GR F&G T3B	FALSE	NONE	BLUE (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)	CAST IRON
6309	6208						

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: 06/23/2017 12:55:06 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

215TTGND16006

Submittal

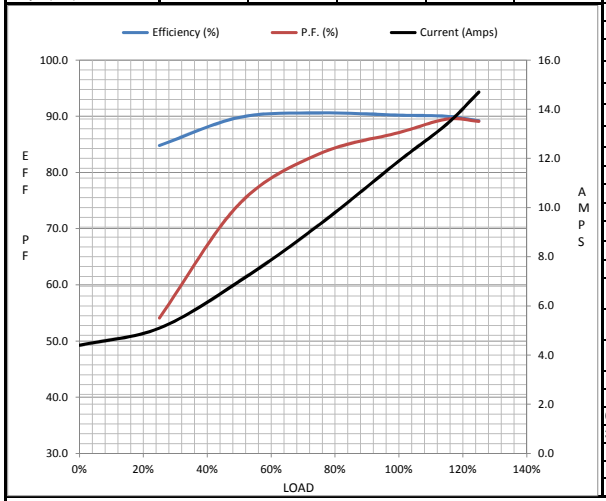
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.4	5.1	7.0	9.3	11.9	13.4	14.7	78.0	
Torque (ft-lb)	0.00	3.7	7.4	11.1	14.9	17.2	18.8	29.0	
RPM	3600	3580	3560	3540	3520	3,515	3495	0	
Efficiency (%)		84.8	89.8	90.6	90.2	90.0	89.2		
P.F. (%)	8.6	54.1	74.4	83.3	87.1	89.5	89.1	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3065	3520	3600
Current (Amps)	78.0	72.0	50.0	11.9	4.4
Torque (ft-lb)	29.0	27.0	46.0	14.9	0.00



Information Block

HP	10.0
Sync. RPM	3600
Frame	215
Enclosure	TEFC
Construction	TFN
Voltage	230/460#190/380V
Frequency	60 Hz
Design	B
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	60 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.55 Lb-Ft²
Ref Wdg	K2152227 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	037703-1212
Conn. Diag	EE7308T

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.8280	0.5020	1.9740	1.3470	58.5630