PRODUCT INFORMATION PACKET

Model No: 213TTDR16101
Catalog No: H184B
XRI® General Purpose General Purpose Motor, 2 HP, 3 Ph, 60 Hz, 230/460 V, 900 RPM, 213T Frame, DP

marathon® Motors

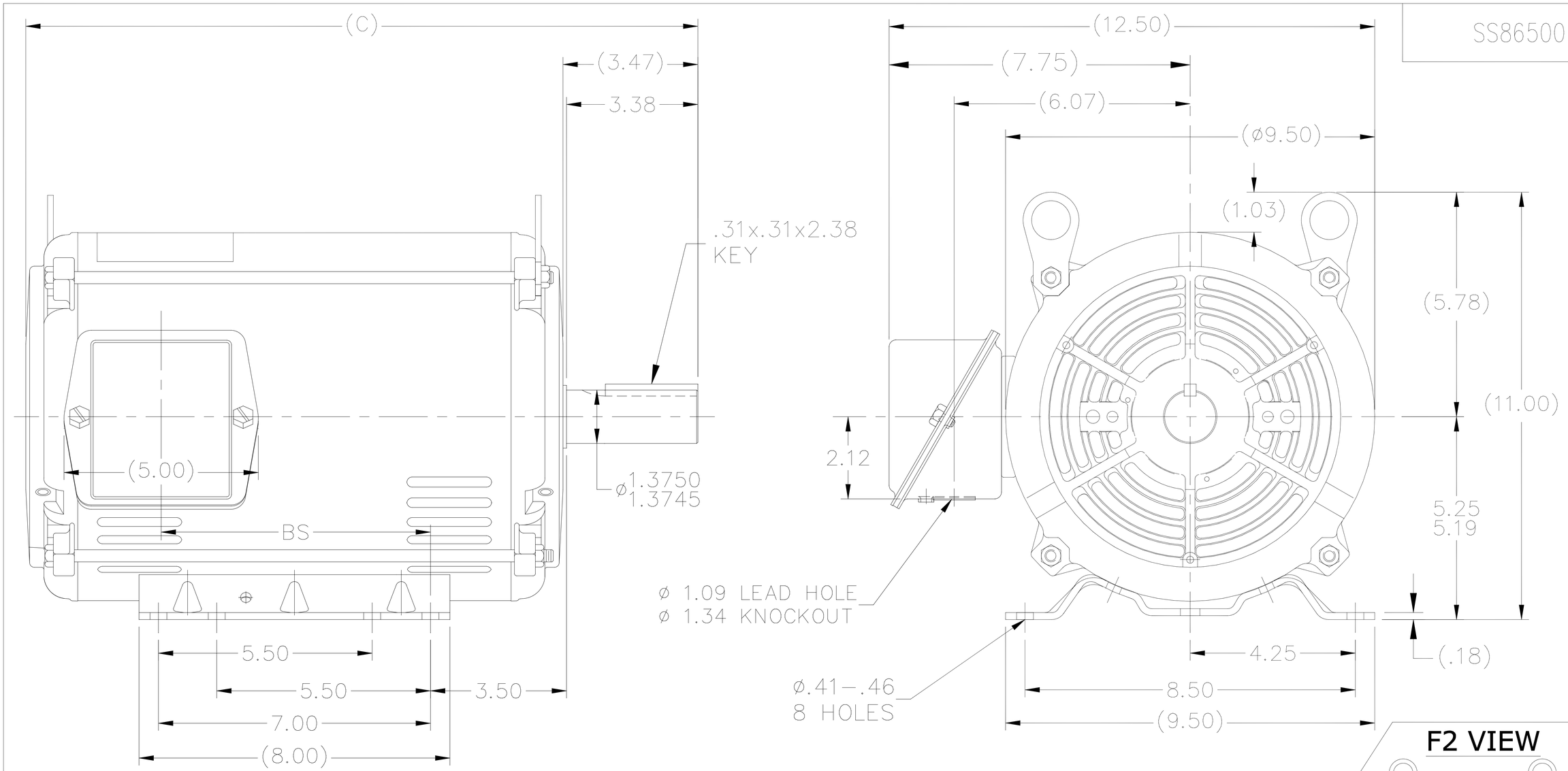
Nameplate Specifications

Phase	3	Output HP	2 Hp
Output KW	1.5 kW	Voltage	230/460 V
Speed	875 rpm	Service Factor	1.15
Frame	213T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	85.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	8.0/4.0 A	Power Factor	55
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	J
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

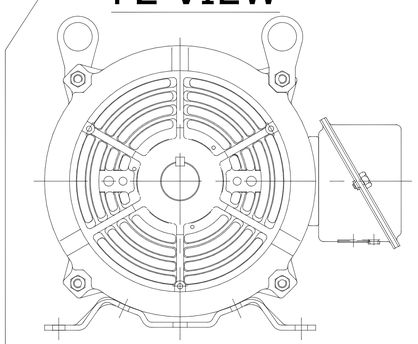
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	8	Rotation	Reversible
Resistance Main	4.35 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	17.30 in
Frame Length	11.15 in	Shaft Diameter	1.375 in
Shaft Extension	3.47 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS86500-1115	Connection Drawing	EE7308

SS86500



F2 VIEW



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.)

DASH	FR.	C	BS	MOUNTING
1115	213/15T	17.30	6.93	F1/F2
1240	213/15T	18.55	8.18	F1 ONLY

NO.	REVISION	BY & DATE
14	TITLE BLOCK LOGO CHANGE PER ECO–0078542	MDV 06/09/2015
13	FOR FRAME 11.15 MOUNTING NOTE ADDED	UD 12/13/12
12	ADDED: F2 VIEW.	KVN 2/10/2009
11	UPDATED DRAWING	TJW 04/27/2007
10	REM'VD. DASH 965 FROM SERIES CN38252	RWR 07-20-2004
9	REDRAWN IN AUTOCAD	TAT 06-29-2004

MDV	TOLERANCES UNLESS SPECIFIED	
	DEC.	INCHES
SR		
SVL	.X	±.1
	.XX	±.03
ML	.XXX	±.005
ML	.XXXX	±.0005
CHK	ANG	±7'30"

REGAL™ Regal Beloit America, Inc.

TITLE OUTLINE
210 FR. – BB – TS – DR. PR.

MAT'L.

FINISH

DRAWN	SMC 04–13–1993
CHK	MOL 04–04–1993
APPD	DRN 04–13–1993
SCALE	1=4
REF	
FMF	
PREV	

RFP

DIST LB

CAD FILE ss86500

SIZE	DRAWING NO.	REV.
A	SS86500 PAGE 1 OF 1	14

EE7308

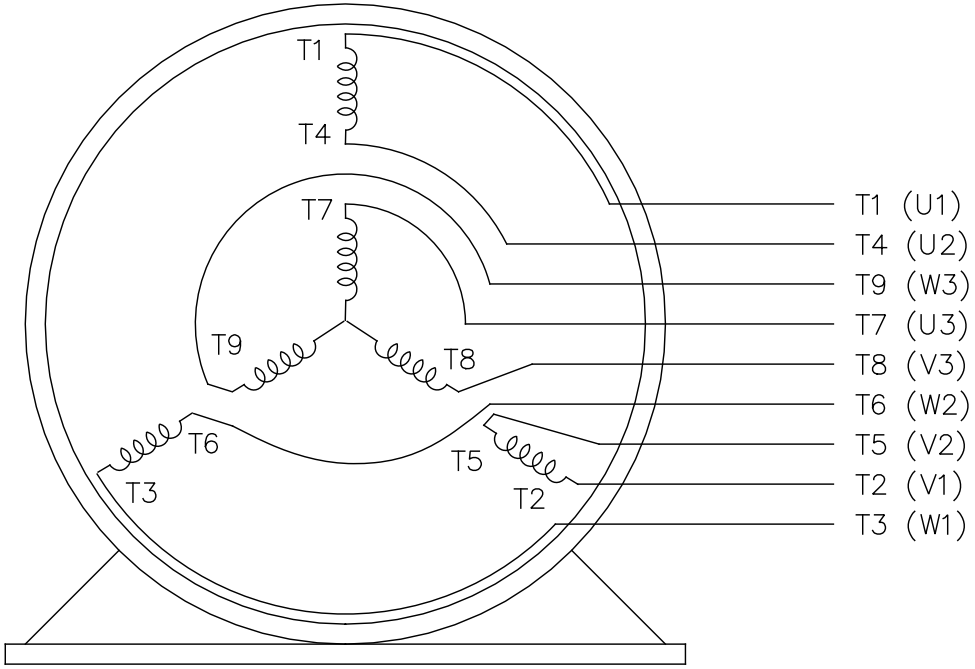
THREE PHASE
DUAL VOLTAGE MOTOR

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#:	213TTDR16101 AA	**WINDING#:**	213830 NONE 1
CONN. DIAGRAM:	EE7308	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	SS86500-1115		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	900	875	213T	DP	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	8/4	ACROSS THE LINE	CONTINUOUS	B3	1.15	40	3300

FULL LOAD EFF: 85.5	3/4 LOAD EFF: 84	1/2 LOAD EFF: 82.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 55	3/4 LOAD PF: 47	1/2 LOAD PF: 35	82.5	SQ CAGE IND RUN	5.4 / 2.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
12.2 LB-FT	40 / 20	18 LB-FT 148	28 LB-FT 230	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.75 LB-FT^2	- LB-FT^2	20 SEC.	4	105 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6307	BALL 6206	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL

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: NONE
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

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DATE: 06/22/2017 04:57:05 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 29-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

213TTDR16101

Submittal

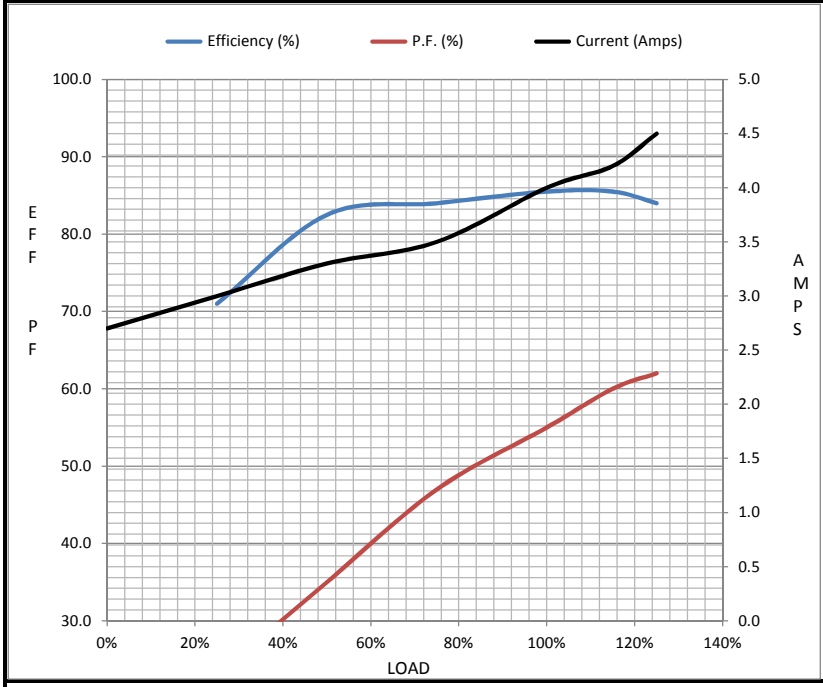
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.70	3.0	3.3	3.5	4.0	4.2	4.5	20.0	
Torque (ft-lb)	0.00	3.0	6.0	9.0	12.2	14.0	15.4	18.0	
RPM	900	895	885	880	875	872	870	0	
Efficiency (%)		71.0	82.5	84.0	85.5	85.5	84.0		
P.F. (%)	6.5	23.0	35.0	47.0	55.0	60.0	62.0	34.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	805	875	900
Current (Amps)	20.0	18.0	14.0	4.0	2.70
Torque (ft-lb)	18.0	17.0	28.0	12.2	0.00



Information Block

HP	2.0
Sync. RPM	900
Frame	213
Enclosure	DP
Construction	TDW
Voltage	230/460 V
Frequency	60 Hz
Design	B
LR Code letter	J
Service Factor	1.15
Temp Rise @ FL	30 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.75 Lb-Ft²
Ref Wdg	213830 NONE
Sound Pressure @ 1M	62 dBA
VFD Rating	NONE
Outline Dwg	SS86500-1115
Conn. Diag	EE7308

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
2.4570	2.1160	13.1210	11.1040	85.4840

Speed -Torque Curve