PRODUCT INFORMATION PACKET

Model No: 215TTFWD16084
Catalog No: M880B
5 HP Vertical Solid Shaft P-Base Motor, 3 phase, 1200 RPM, 230/460 V, 215HPV Frame, TEFC
Vertical Pump Motors

marathon® Motors

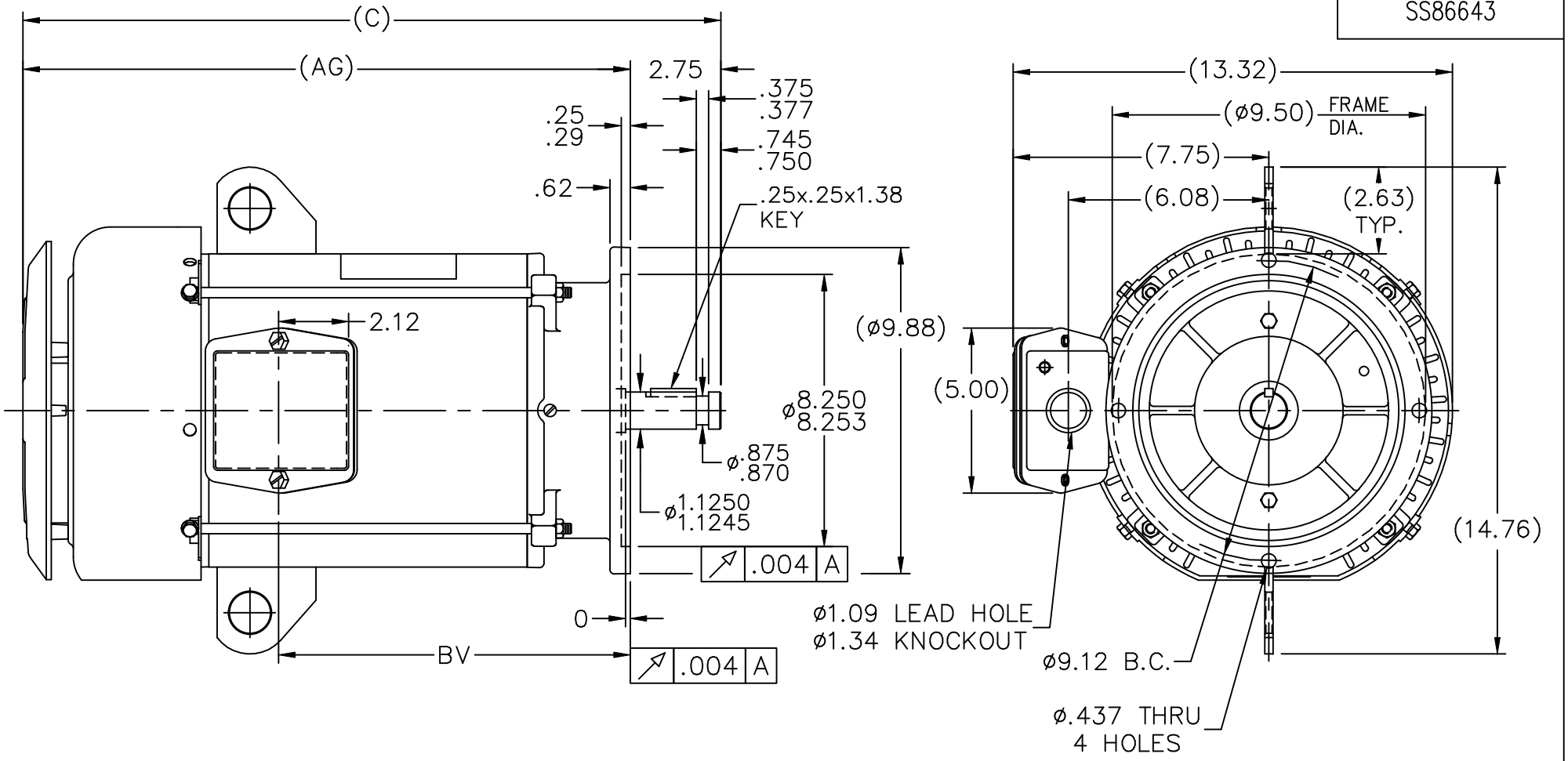
Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	14.0/7.0 A	Speed	1170 rpm
Service Factor	1.15	Phase	3
Efficiency	89.5 %	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Frame	215HPV	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	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
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	1.76 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	HP	Overall Length	21.16 in
Frame Length	12.40 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS86643-1240	Connection Drawing	005010.01

SS86643



DASH	FR.	C	AG	BV
965	213T	21.16	18.41	10.66
1115	213/15T	22.66	19.91	12.16
1240	213/15T	23.91	21.16	13.41

NOTES:
1. NAMEPLATE TO BE READ FROM SHAFT EXT. END OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.

NO.	REVISION	BY & DATE	CHK
7	UPDATED DRAWING	TJW 04/30/2007	
6	REDRAWN IN AUTOCAD	TAT 07-22-2004	ML
5	ADDED ø9.12 B.C. & ø.437 (4) HOLES CN 29200-1501	HLB 02-27-2001	
4	UPDATED C' BOX GEOMETRY CN 28425	DRS 01-31-2000	
3	REMOVED GROUND SCREW FROM FRAME CN 24453	MJD 10-01-1997	

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

MARATHON ELECTRIC

DRAWN MRB 11-05-1996
CHK ML 11-07-1996
APPD DN 11-08-1996
SCALE 7=32
REF
FMF
PREV

TITLE OUTLINE
210T FR.-TEFC-P' BASE-R/S FRAME
MAT'L.
FINISH
CAD FILE ss86643

RFP
DIST LB

SIZE	DRAWING NO.	PAGE	OF	REV.
A	SS86643			7

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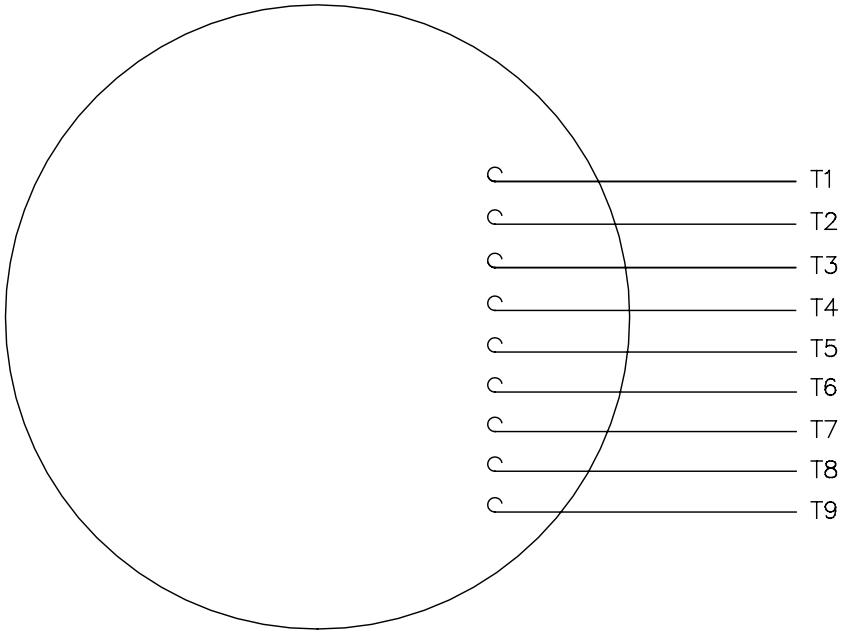
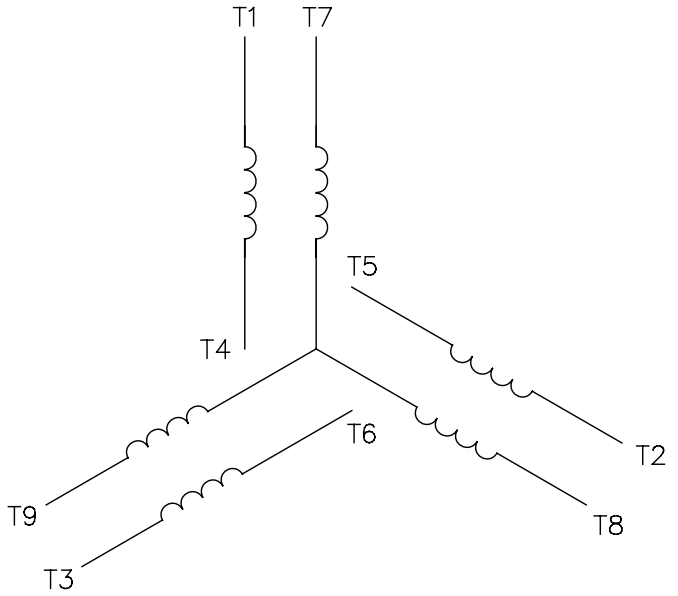
005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

NO.	REVISION	BY & DATE	CHK
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

REGAL™ Regal Beloit America, Inc.

TITLE: EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR

MAT'L. DECAL – 004014

FINISH

CAD FILE 00501001

RFP 04/12/02

DIST BRF-NLV

DRAWN RDW 04/12/02 | CHK | APPD | SCALE 1=1 | REF FIG.2-51 | FMF | PREV

SIZE A | DRAWING NO. 005010-01 | REV. A

P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: 005010.01
OUTLINE: SS86643-1240
WINDING: K2156185 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 215TTFWD16084
CAT #: M880B
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	1200	1170	215HPV	TEFC	TFW	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	14/7	VS LOW VOLTAGE ON	CONT	F	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	90.1	1/2 LD EFF	89.0	GTD EFF	ELECT. TYPE
F.L. PF	75.0	3/4 LD PF	68.5	1/2 LD PF	57.3	87.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
22.5 LB-FT	46.0	45.6 LB-FT 203%	68.2 LB-FT 303%	55	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
55 dBA	64 dBA	1.00 LB-FT²	80 LB-FT²	25 SEC.	2	140 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE	STANDARD	ROUND	SHAFT DOWN	NO	NONE	YES	NONE	BLUE (ENAMEL)

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

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
11.136	1.055	4.731	5.264	72.267	0.150	ODE

*
NOTES
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY: FAREEDA DUDEKULA
DATE: 9/11/2018

FORM: 3531 REV_4 2/27/06

UL: V-INS, CONST UL REC

Data Sheet

Date: 12/3/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

215TTFWD16084

Submittal

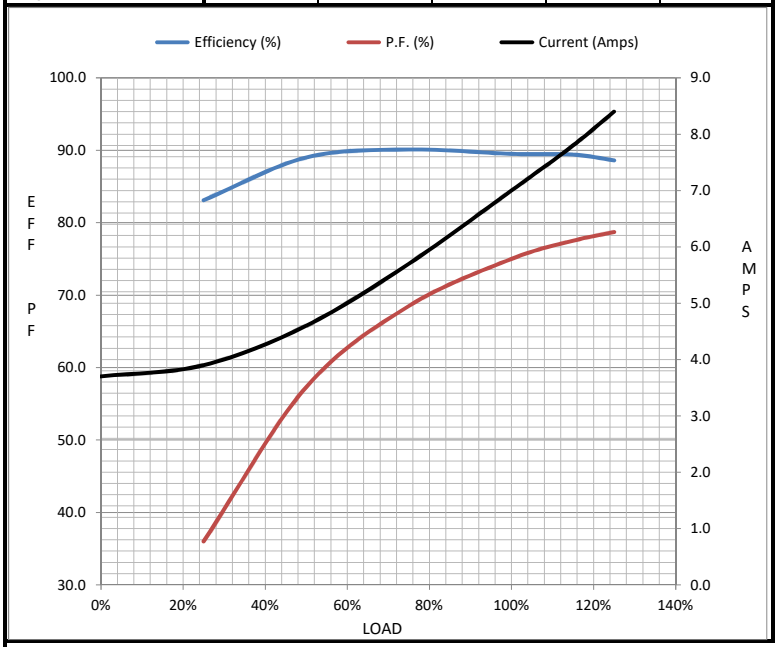
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.7	3.9	4.6	5.7	7.0	7.8	8.4	46.0	
Torque (ft-lb)	0.00	5.5	11.1	16.8	22.5	26.0	28.3	45.6	
RPM	1200	1192	1185	1178	1170	1,165	1160	0	
Efficiency (%)		83.1	89.0	90.1	89.5	89.4	88.6		
P.F. (%)	5.8	36.0	57.3	68.5	75.0	77.5	78.7	45.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	1000	1170	1200
Current (Amps)	46.0	44.0	30.0	7.0	3.7
Torque (ft-lb)	45.6	41.8	68.2	22.5	0.00



Information Block

HP	5.0	
Sync. RPM	1200	
Frame	215	
Enclosure	TEFC	
Construction	TFR	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	J	
Service Factor	1.15	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	1.00	Lb-Ft²
Ref Wdg	K2156185 NONE	
Sound Pressure @ 1M	55	dBA
VFD Rating	NONE	
Outline Dwg	SS86643-1240	
Conn. Diag	005010.01	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
11.1360	1.0550	4.7310	5.2640	72.2670