marathon®

Vertical Pump Motors

Model No: 215TTFWD16084
Catalog No: M880B

Vertical Pump Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 215HPV Frame, TEFC

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Product Information Packet: Model No: 215TTFWD16084, Catalog No: M880B Vertical Pump Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 215HPV Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**5 Hp**
Output KW	**3.7 kW**	Voltage	**230/460 V**
Speed	**1170 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**215HPV**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**89.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**14.0/7.0 A**
Power Factor	**75**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	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

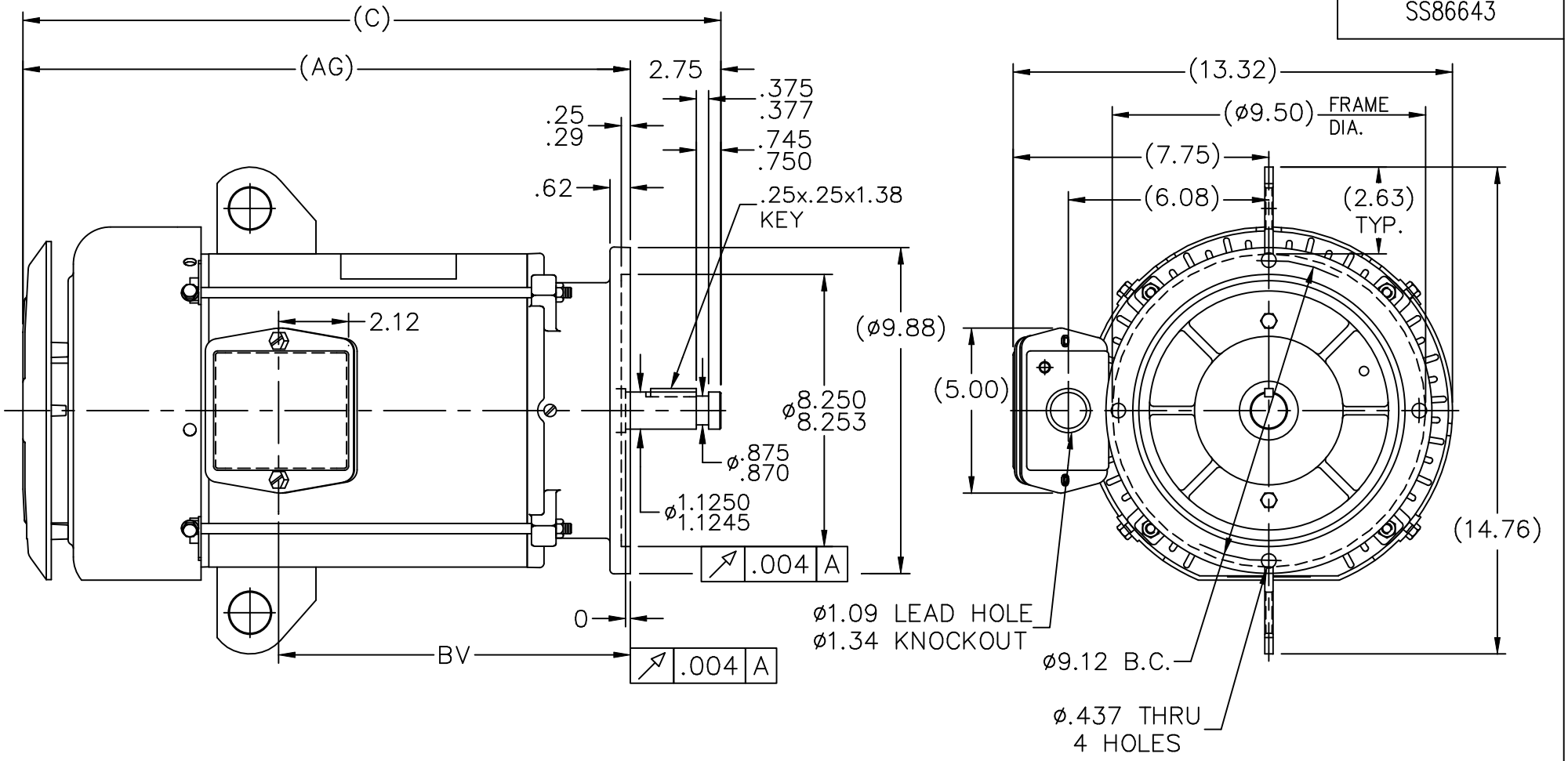
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**1.76 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**HP**	Overall Length	**21.16 in**
Frame Length	**12.4 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.75 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**005010.01**	Outline Drawing	**SS86643-1240**

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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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7/26/2007 3:03:16 PM -

Data Sheet

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

marathon® electric

215TTFWD16084

Submittal

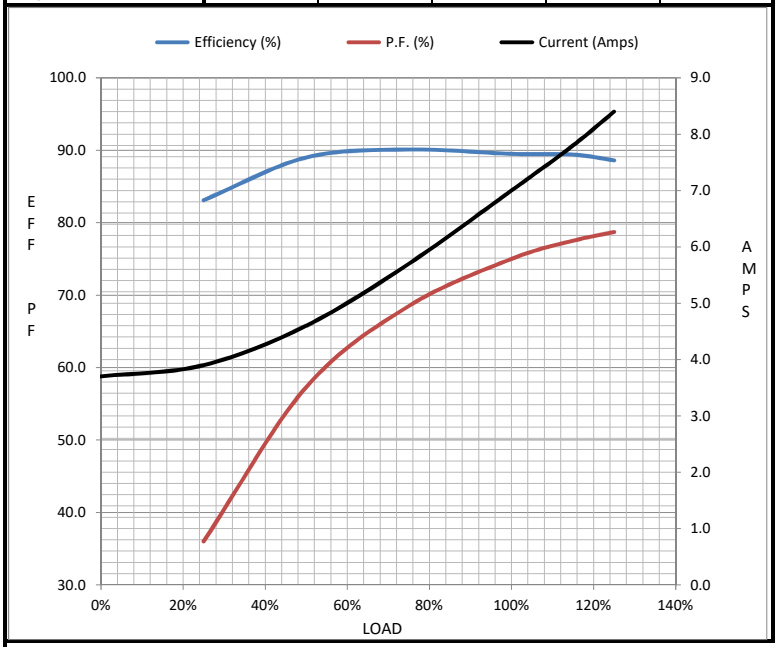
Data @ 460 V

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

Speed -Torque Curve

