marathon®

Vertical Pump Motors

Model No: 213TTDWD16089
Catalog No: M802B

Vertical Pump Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 213HPV Frame, DP

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Product Information Packet: Model No: 213TTDWD16089, Catalog No: M802B Vertical Pump Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 213HPV Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**3 Hp**
Output KW	**2.2 kW**	Voltage	**230/460 V**
Speed	**1175 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**213HPV**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**88.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**9.0/4.5 A**
Power Factor	**71**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**K**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

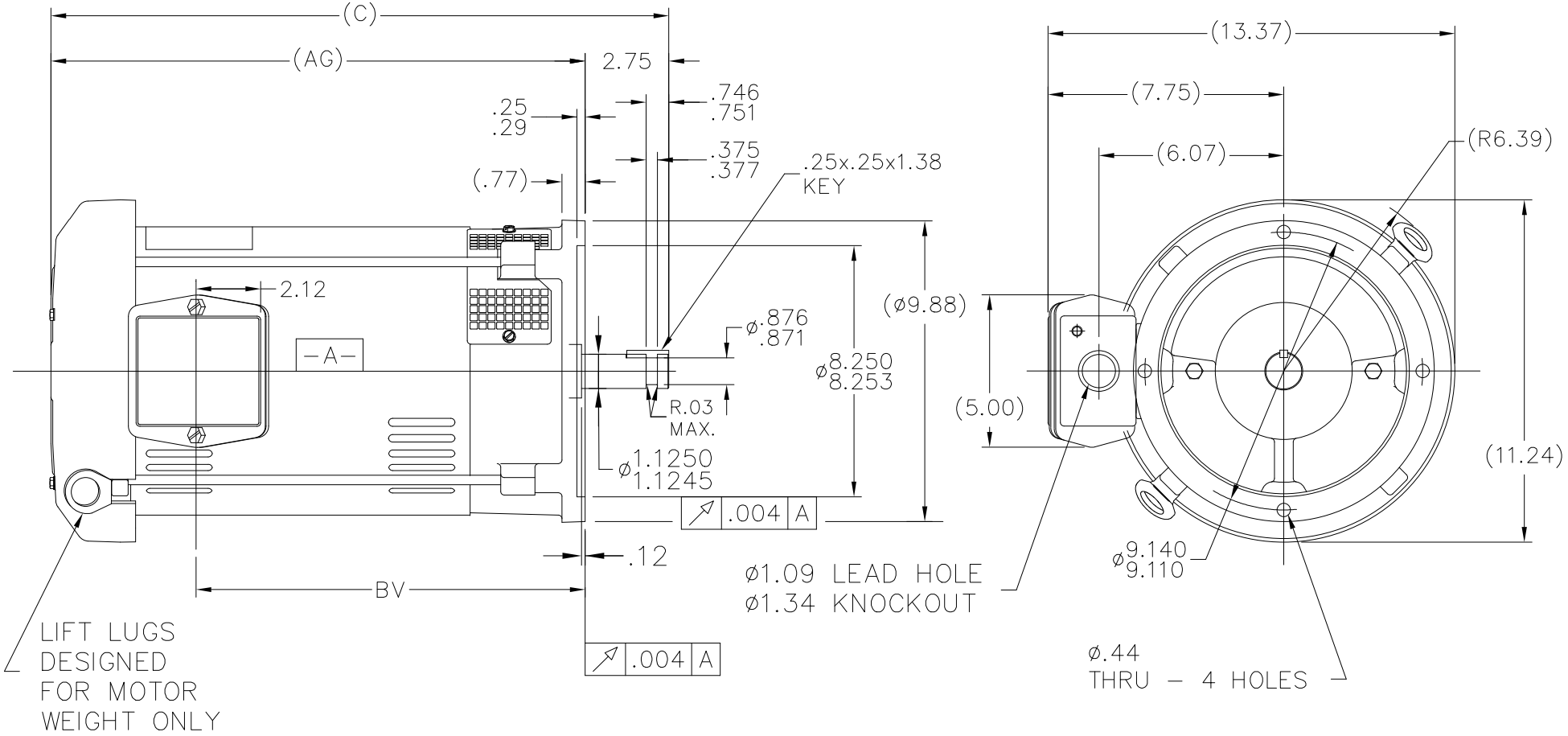
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**3.16 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**HP**	Overall Length	**20.3 in**
Frame Length	**11.15 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	**A-SS86651-1115**

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DASH	FR.	C	AG	BV	
965	213HP	18.80	16.05	11.28	
1115	213/15HP	20.30	17.55	12.78	
1240	213/15HP	21.55	18.80	14.03	

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

DRAWING REVISION: H	REVISION BY: SB	REV DATE/ © DATE: 05/18/2026
REQUEST NUMBER: CR-0026308	APPROVED BY: RMS	DATE: 05/18/2026
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 / INCH 5.1 / mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY: PGK	
DATE: 06/10/1997	
APPROVED BY: DR	
DATE: 06/24/1997	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: SS86651 / SHEET: 1 OF 1

marathon™

DESCRIPTION: OUTLINE
210 FR. - DR. PR.

Data Sheet

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

marathon® electric

213TTDWD16089

Submittal

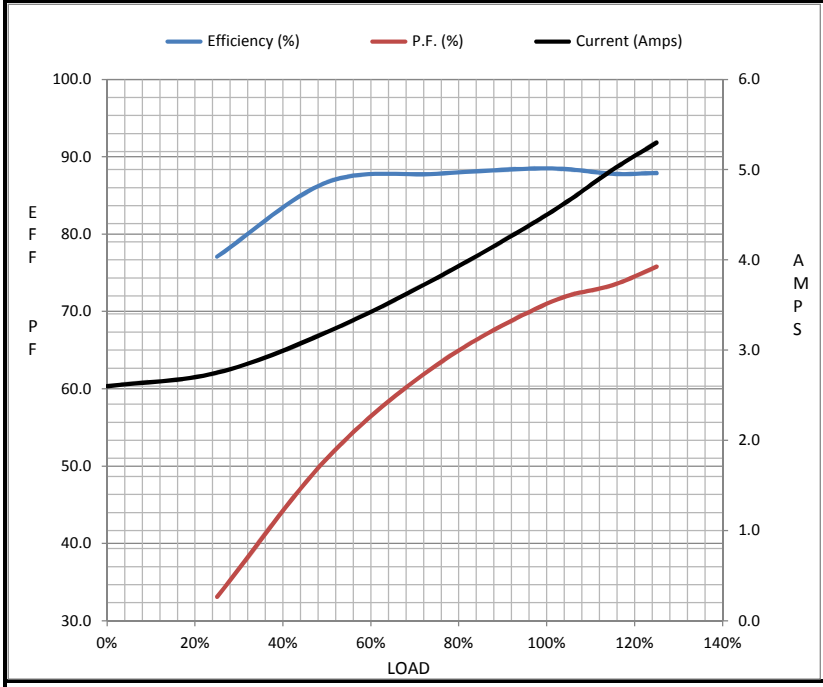
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.60	2.75	3.2	3.8	4.5	5.0	5.3	30.5	
Torque (ft-lb)	0.00	3.3	6.7	10.0	13.5	15.5	17.0	29.0	
RPM	1200	1192	1185	1180	1175	1,167	1165	0	
Efficiency (%)		77.1	86.7	87.8	88.5	87.8	87.9		
P.F. (%)	7.2	33.1	51.0	63.1	71.0	73.4	75.8	41.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	500	1000	1175	1200
Current (Amps)	30.5	28.0	20.0	4.5	2.60
Torque (ft-lb)	29.0	29.0	46.0	13.5	0.00



Information Block

HP	3.0
Sync. RPM	1200
Frame	213
Enclosure	DP
Construction	TDW
Voltage	230/460 V
Frequency	60 Hz
Design	B
LR Code letter	K
Service Factor	1.15
Temp Rise @ FL	20 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.80 Lb-Ft²
Ref Wdg	K213698 NONE
Sound Pressure @ 1M	62 dBA
VFD Rating	NONE
Outline Dwg	A-SS86651-1115
Conn. Diag	005010.01

Additional Specifications:

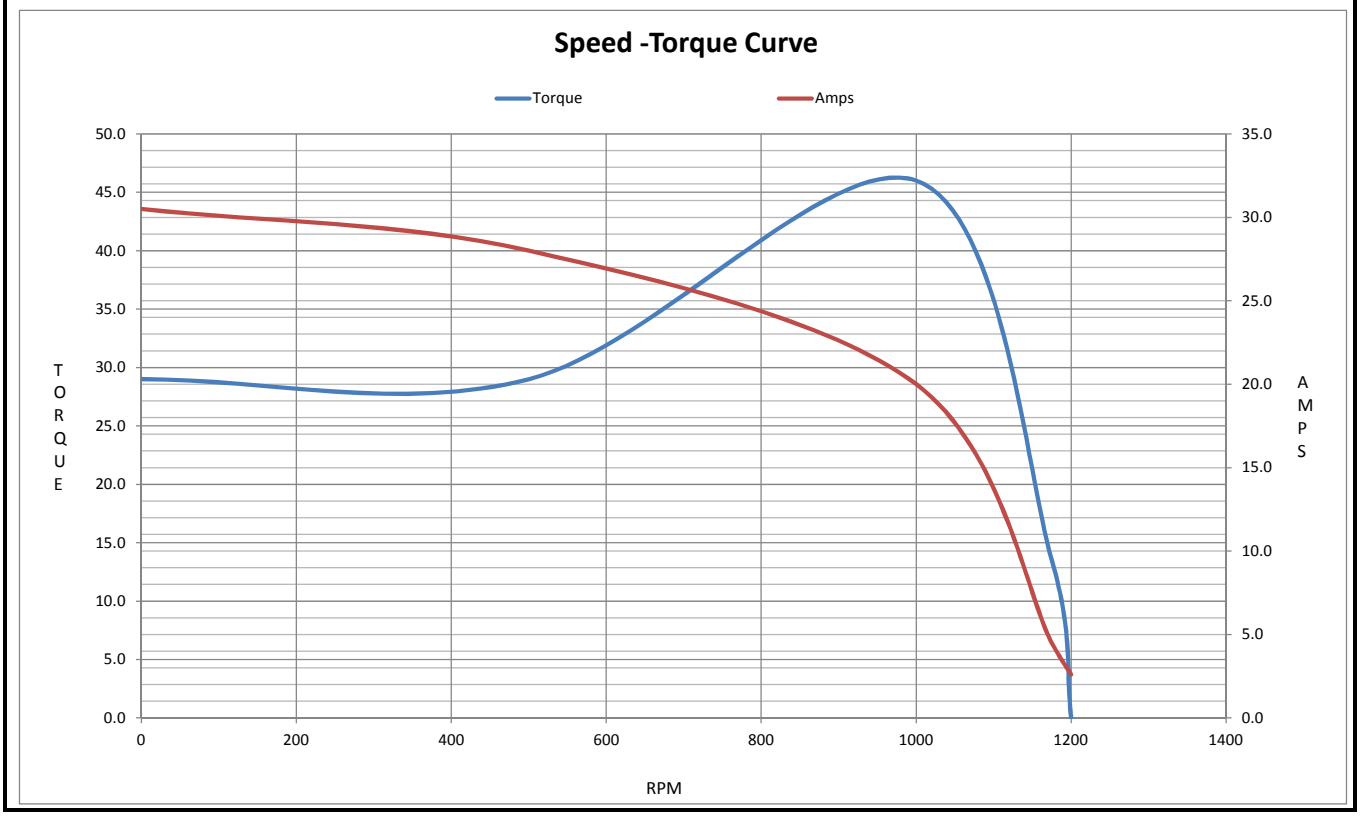
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365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.8630	1.5410	7.1860	7.5450	99.1060

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	213TTDWD16089 AA	**WINDING#:**	K213698 NONE 2
CONN. DIAGRAM:	005010.01	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	A-SS86651-1115		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1200	1175	213HPV	DP	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	9/4.5	ACROSS THE LINE	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 88.5	3/4 LOAD EFF: 87.8	1/2 LOAD EFF: 86.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 71	3/4 LOAD PF: 63.1	1/2 LOAD PF: 51	86.5	SQ CAGE IND RUN	5.2 / 2.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
13.5 LB-FT	61 / 30.5	29 LB-FT 215	46 LB-FT 341	20

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.8 LB-FT^2	50 LB-FT^2	20 SEC.	2	120 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6309	BALL 6206	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	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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NOTES
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