marathon®

Vertical Pump Motors

Model No: 326TTDN16035
Catalog No: M734

Vertical Pump Motor, 50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 326HPV Frame, DP

©2026 Marathon, All Rights Reserved.

marathon®

Product Information Packet: Model No: 326TTDN16035, Catalog No: M734 Vertical Pump Motor, 50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 326HPV Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**50 Hp**
Output KW	**37.0 kW**	Voltage	**230/460 V**
Speed	**1780 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.15**	Frame	**326HPV**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**94.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**124.0/62.0 A**
Power Factor	**80**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**7311**
Opp Drive End Bearing Size	**6311**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**23**	Number of Speeds	**1**

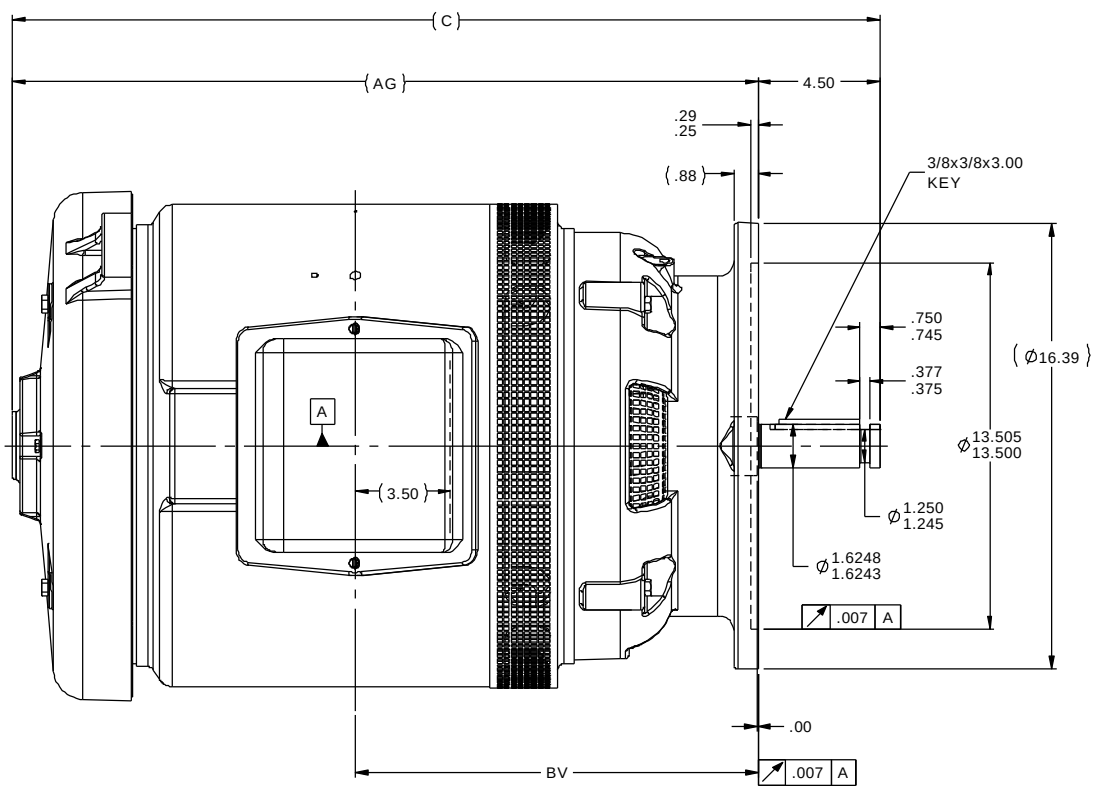
Technical Specifications

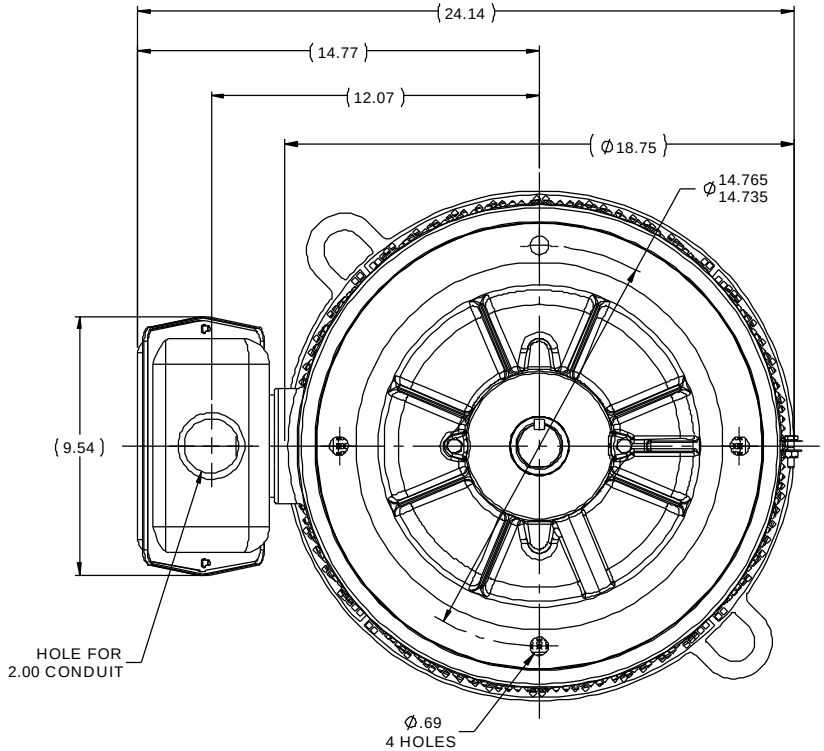
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.115 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Single Angular Contact**	Frame Material	**Cast Iron**
Shaft Type	**HP**	Overall Length	**31.93 in**
Frame Length	**16.12 in**	Shaft Diameter	**1 5/8 in**
Shaft Extension	**4.5 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**A-EE7308**	Outline Drawing	**B-SS312503-1612**

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 15/10/2026





NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM SHAFT EXTENSION END OF MOTOR.

DASH	FRAME	C	AG	BV			
1612	284/6HP	31.93	27.43	14.81			

NO	REVISION	BY & DATE	CHK

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

THIRD ANGLE PROJECTION

marathon electric

TITLE OUTLINE
320HP FR. - P'BASE - VERT. DR.PR.
MAT'L
FINISH
RFP 5/1/2013
PREV
NETWORK FILE NAME SS312503

DRAWN	TJW 4/22/2013
CHK	CTO 5/1/2013
APPR	LMC 5/1/2013
SCALE	7:32
REF	SS28314
FMF	MU112462
PAGE	OF

SIZE B
DRAWING NO SS312503
REV

5/2/2013 8:23:18 AM - Converted by Connexus
You created this PDF from an application that is not licensed to print to novaPDF printer (http://www.novapdf.com)

Uncontrolled Copy

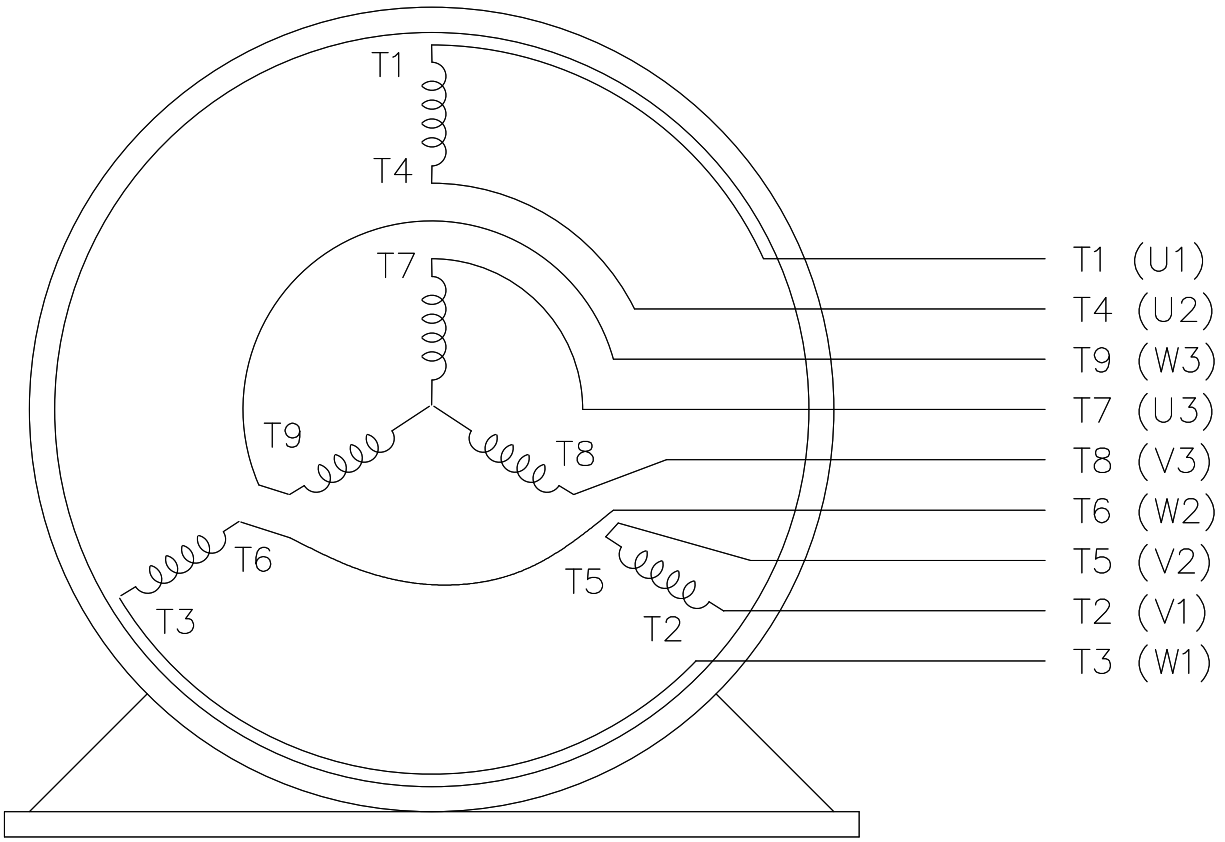
THREE PHASE
DUAL VOLTAGE MOTOR

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

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
J	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023654	SBD	08/01/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

COPYRIGHT (PER REVISION DATE) MARATHON ELECTRIC, LLC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF MARATHON ELECTRIC, LLC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY	RM
DATE	11/20/1990
APPROVED BY	SAS
DATE	04/24/2003
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	4 of 6 EE7308	1 OF 1

Uncontrolled Copy

Data Sheet

Date: 6/29/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

326TTDN16035

Submittal

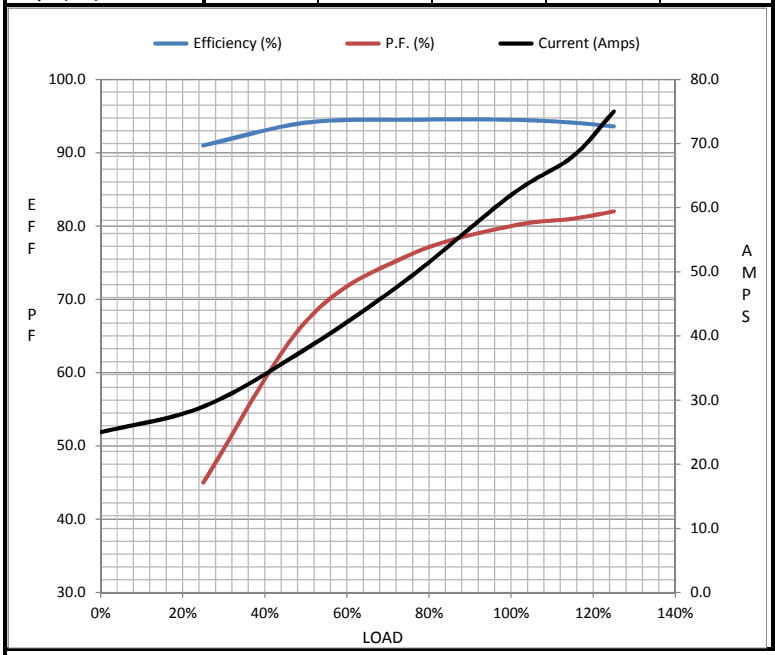
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	25.0	29.0	38.0	49.0	62.0	68.0	75.0	340	
Torque (ft-lb)	0.00	36.5	73.5	110	147	170	185	250	
RPM	1800	1795	1790	1785	1780	1,775	1772	0	
Efficiency (%)		91.0	94.1	94.5	94.5	94.1	93.6		
P.F. (%)	4.0	45.0	67.0	76.0	80.0	81.0	82.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1685	1780	1800
Current (Amps)	340	300	193	62.0	25.0
Torque (ft-lb)	250	210	357	147	0.00



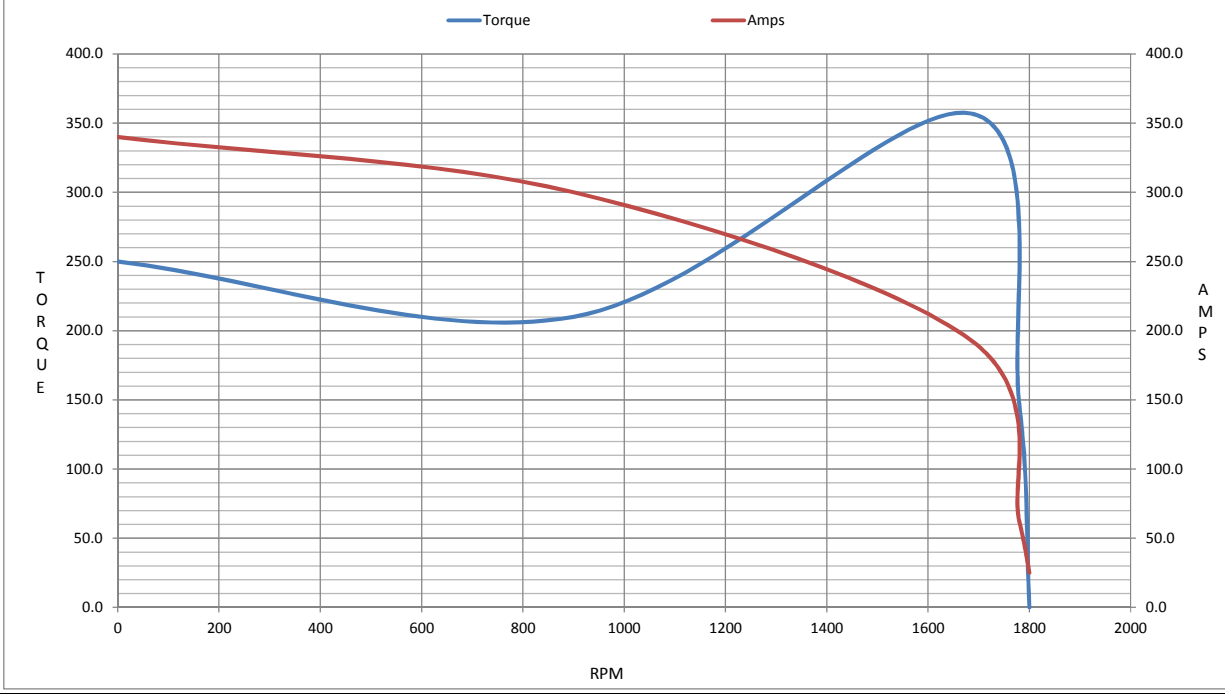
Information Block

HP	50.0
Sync. RPM	1800
Frame	326
Enclosure	DP
Construction	TDN
Voltage	230/460 V
Frequency	60 Hz
Design	B
LR Code letter	F
Service Factor	1.15
Temp Rise @ FL	45 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	9.7 Lb-Ft²
Ref Wdg	K3264203 NONE
Sound Pressure @ 1M	75 dBA
VFD Rating	NONE
Outline Dwg	B-SS312503-1612
Conn. Diag	A-EE7308
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0770	0.0520	0.4880	0.6520	11.5450

Speed -Torque Curve



Uncontrolled Copy

CERTIFICATION DATA SHEET

Model#:	326TTDN16035 AA	**WINDING#:**	K3264203 NONE 1
CONN. DIAGRAM:	A-EE7308	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS312503-1612		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50	37	1800	1780	326HPV	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	124/62	ACROSS THE LINE	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 94.5	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.1	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80	3/4 LOAD PF: 76	1/2 LOAD PF: 67	93.6	SQ CAGE IND RUN	50 / 25

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
147 LB-FT	680 / 340	250 LB-FT 169	357 LB-FT 242	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	9.7 LB-FT^2	- LB-FT^2	20 SEC.	2	675 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	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	SINGLE ANGULAR CONTACT	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
7311	6311						

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

*
N
O
T
E
S
*

DATE: 06/21/2017 06:48:32 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.