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# Vertical Pump Motors

**Model No:** 326TTDN16101
**Catalog No:** M724

Vertical Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 900 RPM, 326HPV Frame, DP

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# Product Information Packet: Model No: 326TTDN16101, Catalog No: M724 Vertical Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 900 RPM, 326HPV Frame, DP

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **25 & 20 Hp** |
| Output KW | **18.7 & 14.9 kW** | Voltage | **230/460 & 190/380 V** |
| Speed | **882 & 732 r/min** | Synchronous RPM | **900 & 750 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **326HPV** |
| Enclosure | **Drip Proof** | Thermal Protection | **No Protection** |
| Efficiency | **91 & 90.2 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **73/36.5 & 71/35.5 A** |
| Power Factor | **70** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **F** | Drive End Bearing Size | **6311** |
| Opp Drive End Bearing Size | **7311** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **23** | Number of Speeds | **1** |

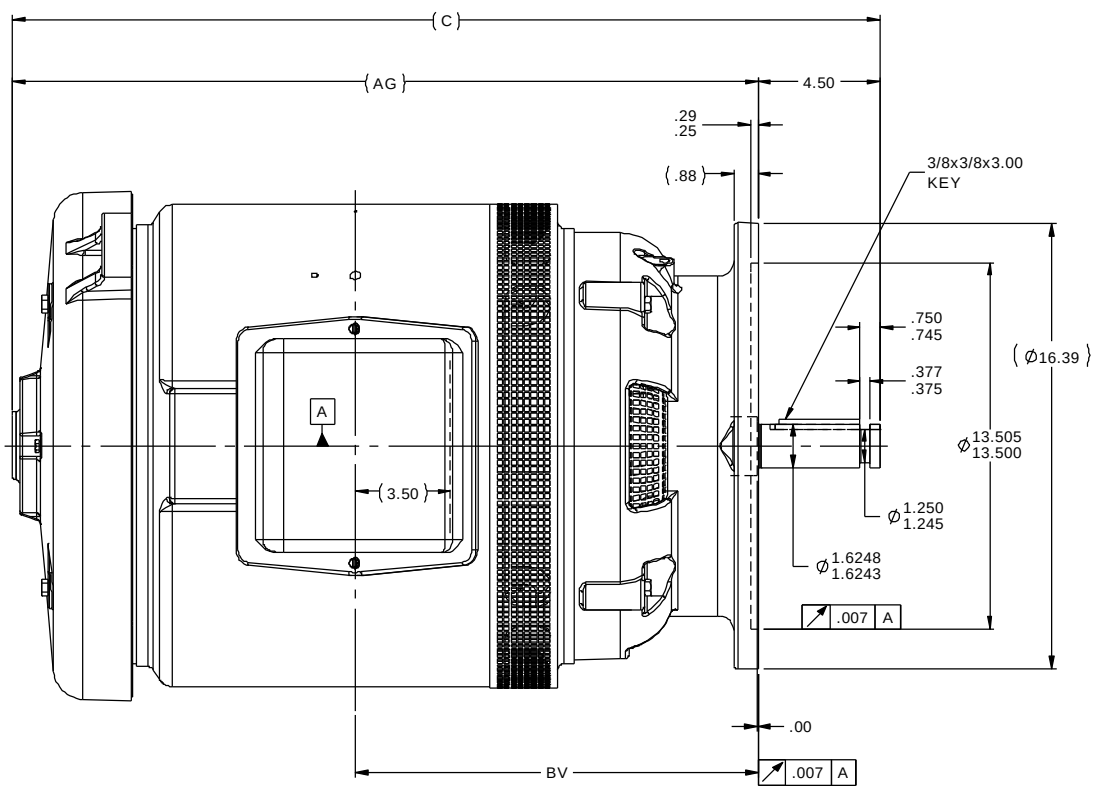
## Technical Specifications

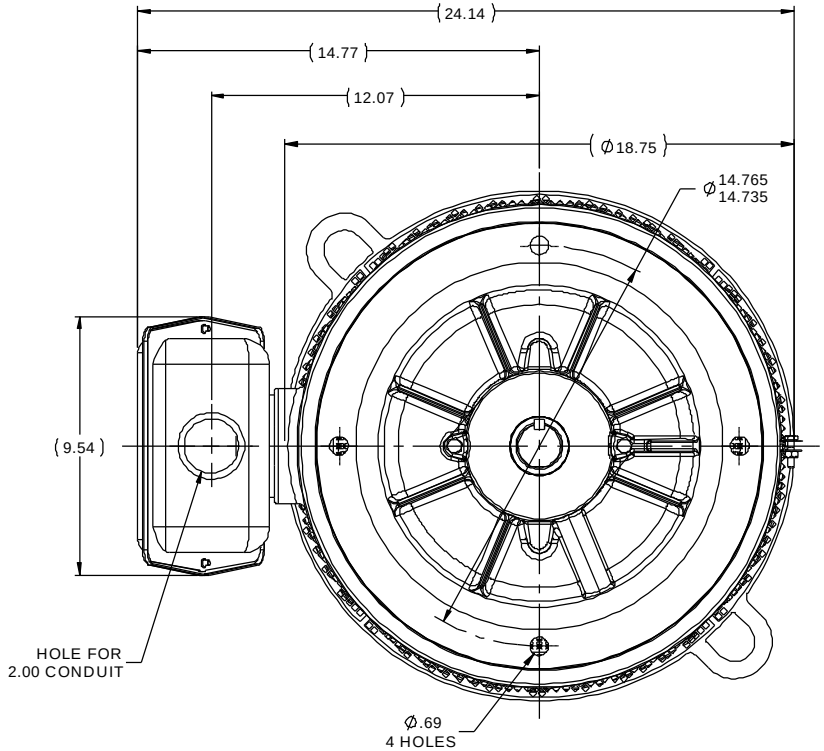
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Line Or Inverter** |
| Poles | **8** | Rotation | **Reversible** |
| Resistance Main | **.295 O** | Mounting | **Round** |
| Motor Orientation | **Shaft Down** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | 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 | **4.50 in** | Assembly/Box Mounting | **F1/F2 Capable** |
| Inverter Load | **Variable 10:1** | | |

## Drawings

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

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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 |

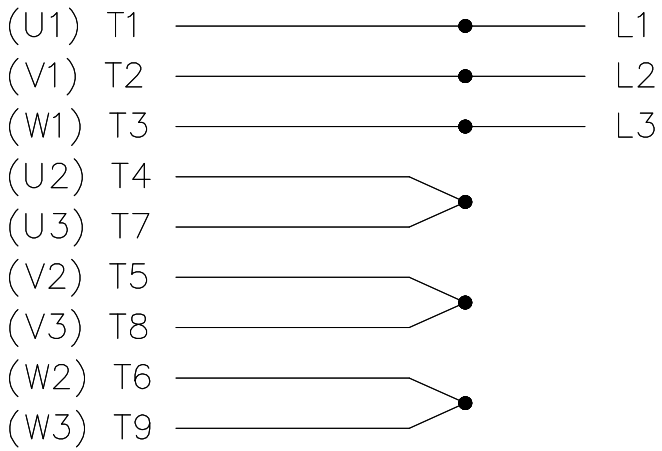
SIZE B
DRAWING NO SS312503
REV

5/2/2013 8:23:18 AM - Converted by Comnexus
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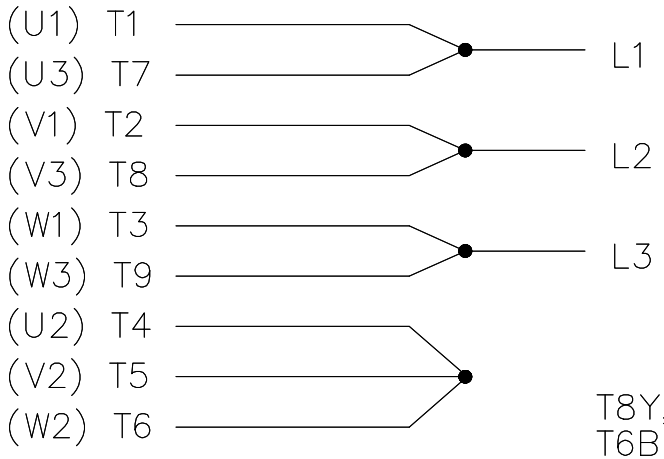
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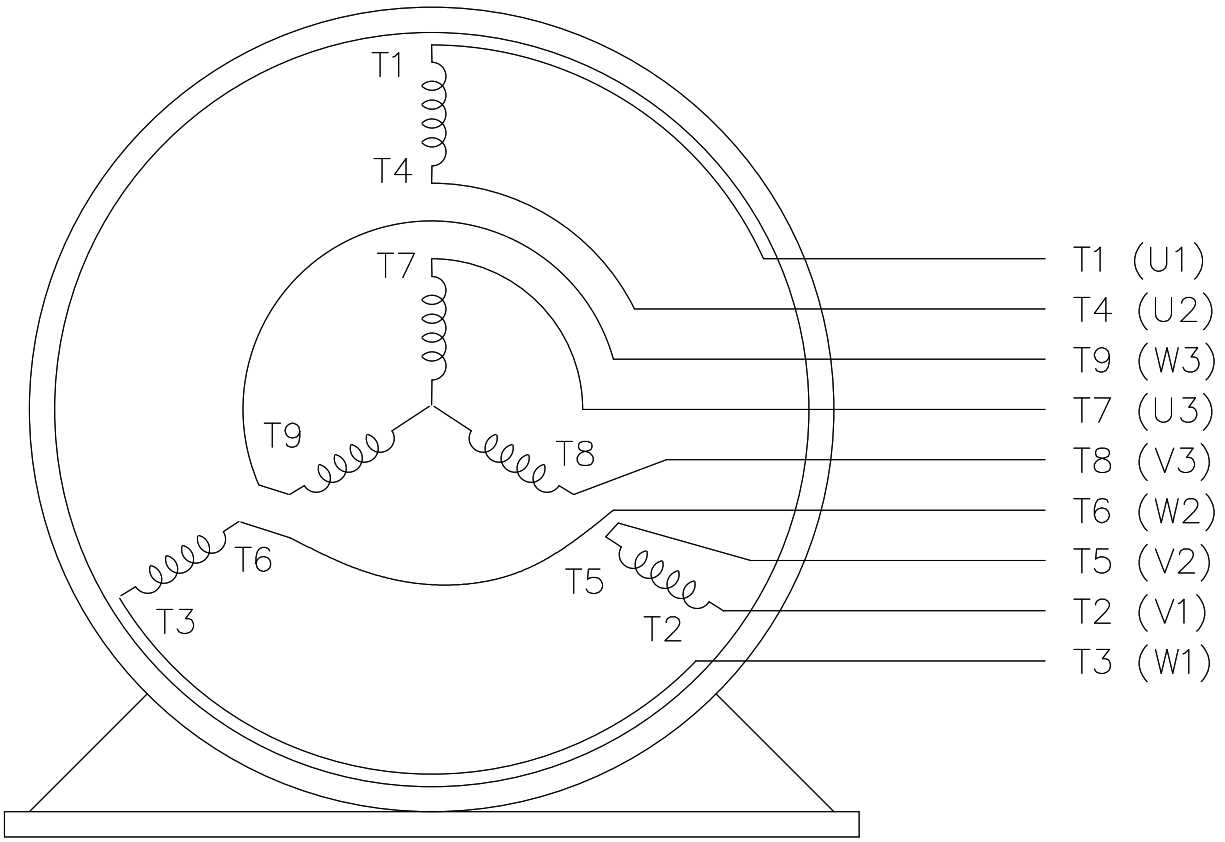
# THREE PHASE
# DUAL VOLTAGE MOTOR

## HIGH VOLTAGE




## LOW VOLTAGE




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

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

| MATERIAL | PROCESS/FINISH |
|---|---|
| | |

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | 4 of 5 EE7308 | 1 OF 1 |

Uncontrolled Copy

# Data Sheet

**Date:** 11/30/2018
**Customer:**
**Attention:**
**Submitted by:** FAREEDA DUDEKULA

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326TTDN16101

**Submittal**

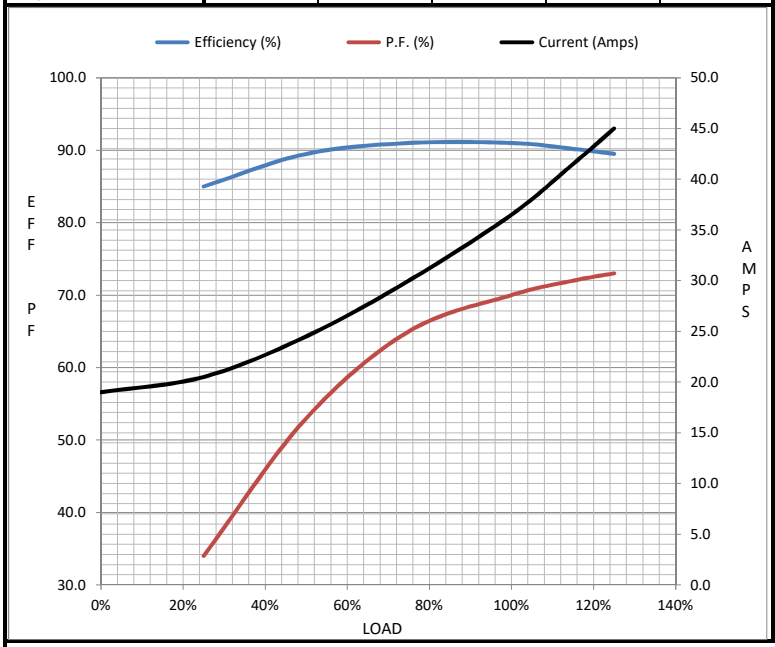
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 19.0 | 20.5 | 24.5 | 30.0 | 36.5 | 41.5 | 45.0 | 160 | |
| Torque (ft-lb) | 0.00 | 36.8 | 73.5 | 112 | 150 | 172 | 188 | 195 | |
| RPM | 900 | 895 | 892 | 888 | 882 | 878 | 875 | 0 | |
| Efficiency (%) | | 85.0 | 89.5 | 91.0 | 91.0 | 90.2 | 89.5 | | |
| P.F. (%) | 5.0 | 34.0 | 53.0 | 65.0 | 70.0 | 72.0 | 73.0 | 31.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 450 | 825 | 882 | 900 |
| Current (Amps) | 160 | 135 | 95.0 | 36.5 | 19.0 |
| Torque (ft-lb) | 195 | 175 | 300 | 150 | 0.00 |




## Information Block

| | | |
|---|---|---|
| HP | 25.0 | |
| Sync. RPM | 900 | |
| Frame | 326 | |
| Enclosure | DP | |
| Construction | TDS | |
| Voltage | 230/460#190/380 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | F | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 60 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 1,000 | feet |
| Rotor/Shaft wk² | 9.7 | Lb-Ft² |
| Ref Wdg | 326851 R1 | |
| Sound Pressure @ 1M | 64 | dBA |
| VFD Rating | VARIABLE 10:1 | |
| Outline Dwg | B-SS312503-1612 | |
| Conn. Diag | A-EE7308 | |
| Additional Specifications: | | |
| 0 | | |
| 0 | | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.1930 | 0.1590 | 1.3620 | 1.1920 | 13.3360 |

