marathon®

Vertical Pump Motors

Model No: 326TTDR16005
Catalog No: M837B

Vertical Pump Motor, 60 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 326HPV Frame, DP

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Product Information Packet: Model No: 326TTDR16005, Catalog No: M837B Vertical Pump Motor, 60 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 326HPV Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**60 Hp**
Output KW	**45.0 kW**	Voltage	**230/460 V**
Speed	**3550 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**326HPV**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**93.6 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**135.0/67.5 A**
Power Factor	**88**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6311**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

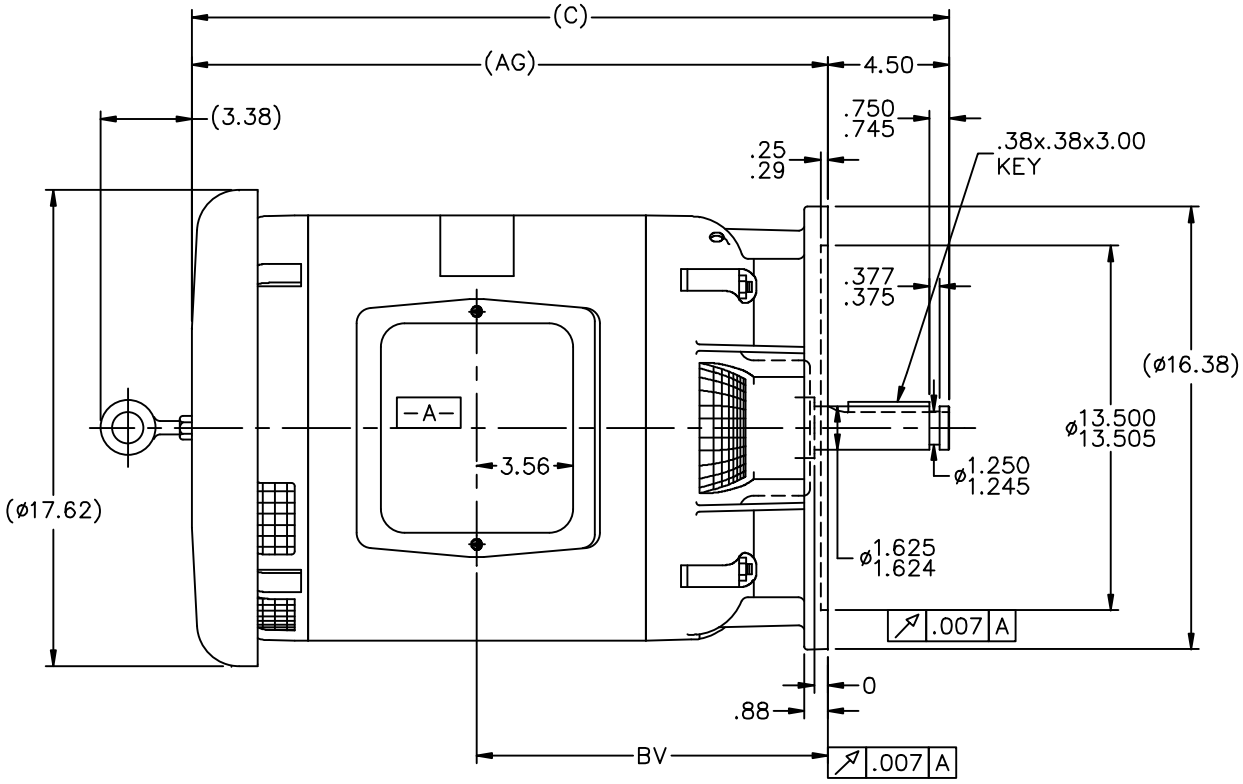
Technical Specifications

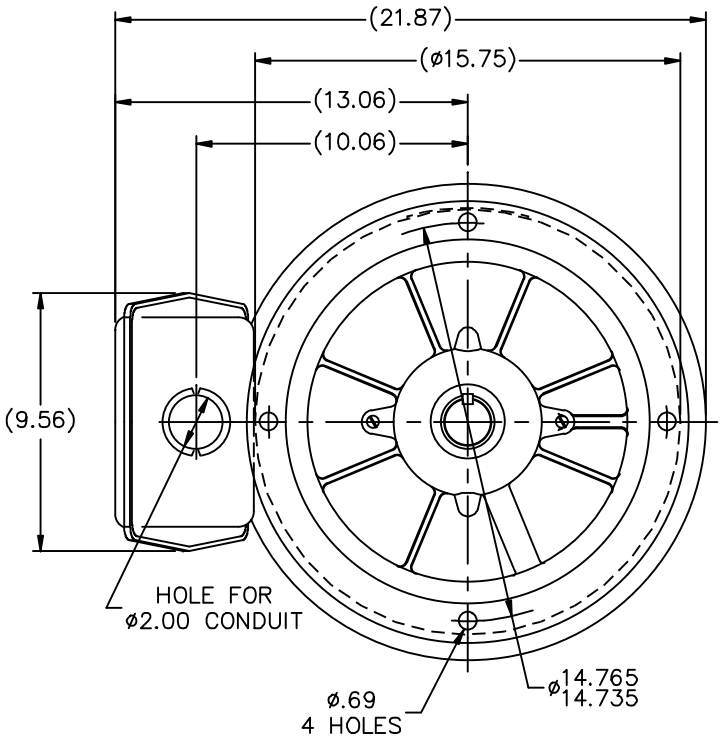
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.105 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**HP**	Overall Length	**30.56 in**
Frame Length	**15.0 in**	Shaft Diameter	**1 5/8 in**
Shaft Extension	**4.5 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7308K**	Outline Drawing	**B-SS28314-1500**

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NOTES:
1. C'BOX CAN BE ROTATED IN 90° STEP.
2. NAMEPLATE TO BE READ FROM SHAFT END OF MOTOR
3. MAX. SHAFT RUNOUT .002

DASH	FRAME	C	AG	BV
1250	320	28.06	23.56	13.00
1400	320	29.56	25.06	13.75
1450	320	30.06	25.56	14.00
1500	320	30.56	26.06	14.12

NO.	REVISION	BY & DATE	CHK
16	REVISED NOTE # 2 (ECN 23047)	REP 01-16-2012	BW
15	ECN 16735	NJS 6/21/2010	BW
14	REVISED NAMEPLATE LOCATION 09-3901	MSG 9/22/2009	DR
13	REDRAWN IN AUTOCAD	TAT 07-22-2004	ML
12	REVISED TO NEC CONDUIT BOX CN 28428	BJW 02-04-2000	
11	FRAME TYPES NOW 320 CN 27400-327	DRS 08-23-1999	

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

MARATHON ELECTRIC

TITLE OUTLINE - 320HP FR. DR. PR. - STEEL C' BOX - 'P' BASE

MAT'L. | FINISH | CAD FILE ss28314

DRAWN MJD 01-27-1999 | CHK ML 02-01-1999 | APPD DD 02-01-1999 | SCALE 7=32 | REF | FMF | PREV

RFP | DIST LB

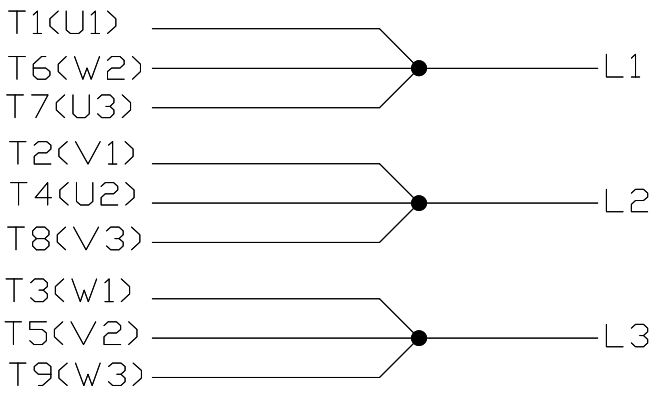
SIZE B | DRAWING NO. SS28314 | PAGE OF | REV. 16

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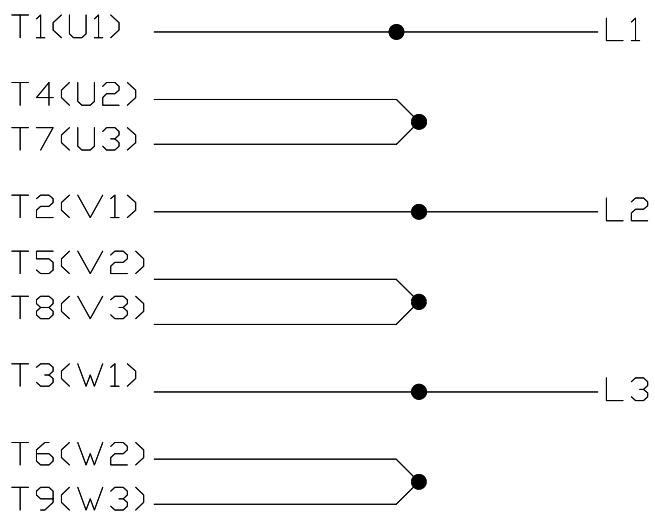
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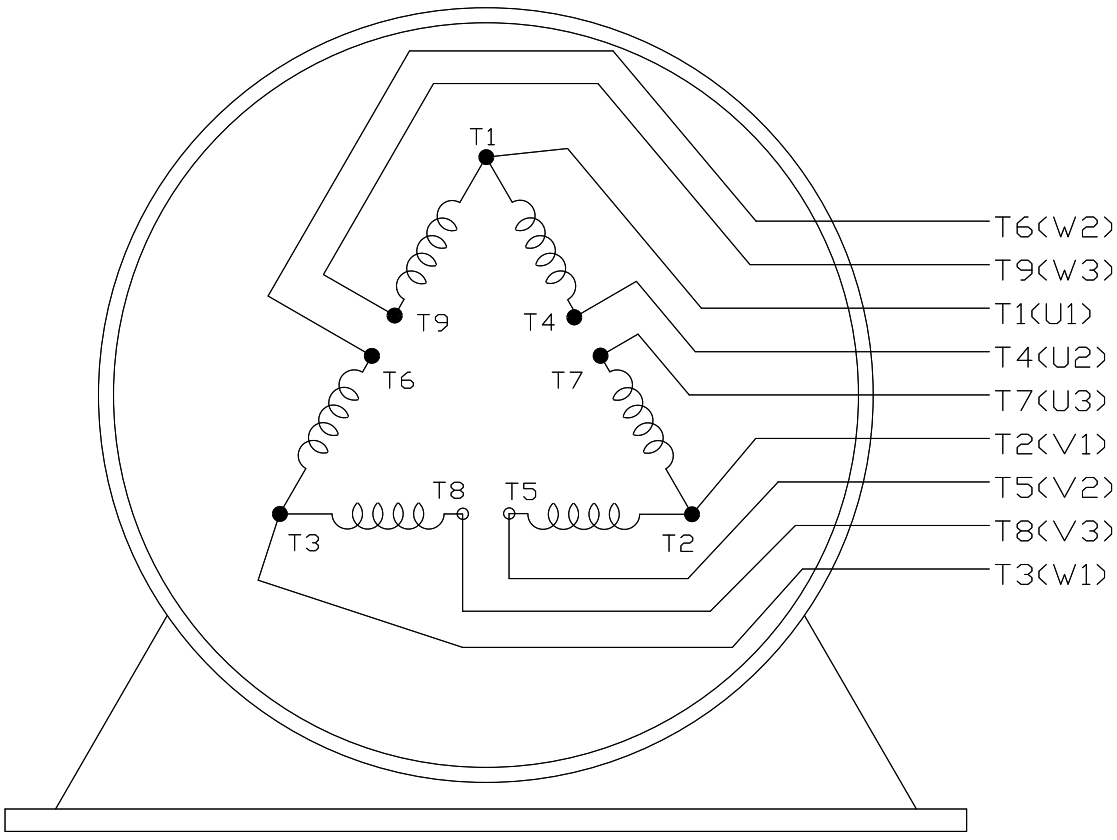
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LOW VOLTAGE



HIGH VOLTAGE





VIEW OF TERMINAL END

DRAWING REVISION: F	REVISION BY: SB	REV DATE/ © DATE: 08/01/2025	DRAWN BY: PGK	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025	DATE: 06/04/1997	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED			APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL DELTA CON. - 3ø - 9 LEADS
			DATE: 06/15/1997	
			REFERENCE	MATERIAL / PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7308K / SHEET: 1 OF 1

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Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

326TTDR16005

Submittal

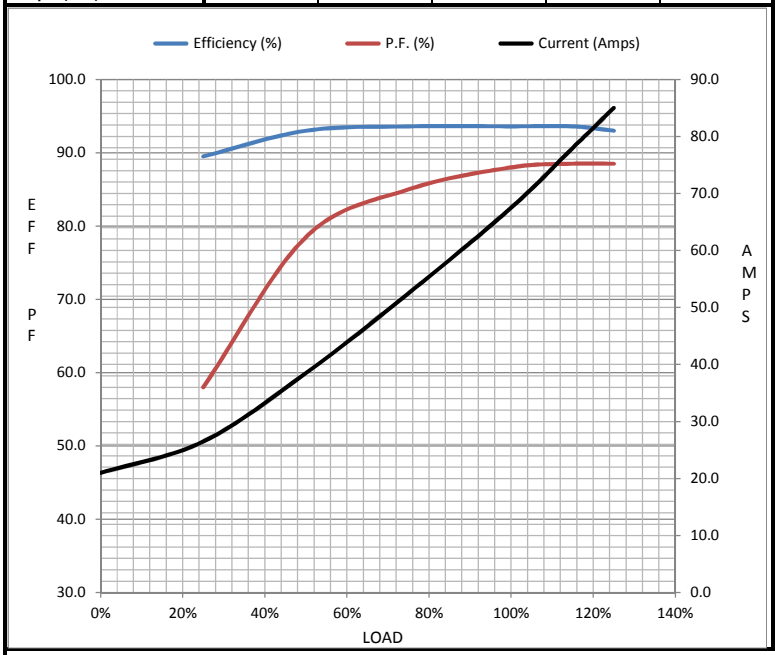
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	21.0	26.5	38.5	52.5	67.5	78.0	85.0	410	
Torque (ft-lb)	0.00	22.0	44.0	66.5	88.5	102	111	130	
RPM	3600	3590	3580	3565	3550	3,545	3540	0	
Efficiency (%)		89.5	93.0	93.6	93.6	93.6	93.0		
P.F. (%)	6.0	58.0	78.5	85.0	88.0	88.5	88.5	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3550	3600
Current (Amps)	410	375	250	67.5	21.0
Torque (ft-lb)	130	120	210	88.5	0.00



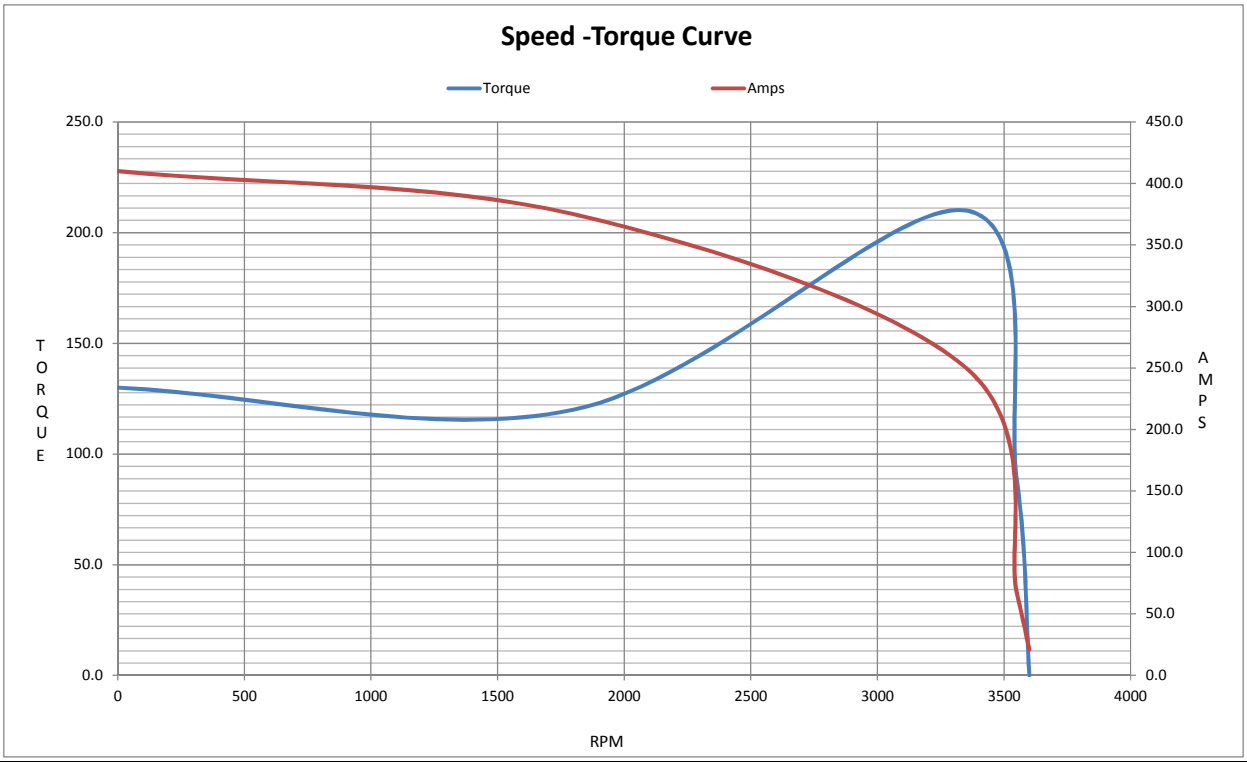
Information Block

HP	60.0
Sync. RPM	3600
Frame	326
Enclosure	DP
Construction	TDR
Voltage	230/460 V
Frequency	60 Hz
Design	B
LR Code letter	F
Service Factor	1.15
Temp Rise @ FL	40 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	5.8 Lb-Ft²
Ref Wdg	326292 NONE
Sound Pressure @ 1M	82 dBA
VFD Rating	NONE
Outline Dwg	B-SS28314-1500
Conn. Diag	A-EE7308K
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0610	0.0480	0.4490	0.3760	12.9930

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	326TTDR16005 AN	**WINDING#:**	326292 NONE 1
CONN. DIAGRAM:	A-EE7308K	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS28314-1500		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60	45	3600	3550	326HPV	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	135/67.5	ACROSS THE LINE	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 93.6	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 93	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88	3/4 LOAD PF: 85	1/2 LOAD PF: 78.5	93	SQ CAGE IND RUN	42 / 21

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88.5 LB-FT	820 / 410	130 LB-FT 147	210 LB-FT 237	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
82 dBA	92 dBA	5.8 LB-FT^2	- LB-FT^2	15 SEC.	2	625 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 6311	BALL 6311	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

*
NOTES
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