marathon®

Vertical Pump Motors

Model No: 324TTFS16011
Catalog No: M904B

Vertical Pump Motor, 40 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 324HPV Frame, TEFC

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Product Information Packet: Model No: 324TTFS16011, Catalog No: M904B Vertical Pump Motor, 40 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 324HPV Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**40 Hp**
Output KW	**30.0 kW**	Voltage	**230/460 V**
Speed	**3550 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**324HPV**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**93 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**94.0/47.0 A**
Power Factor	**86.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6311**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

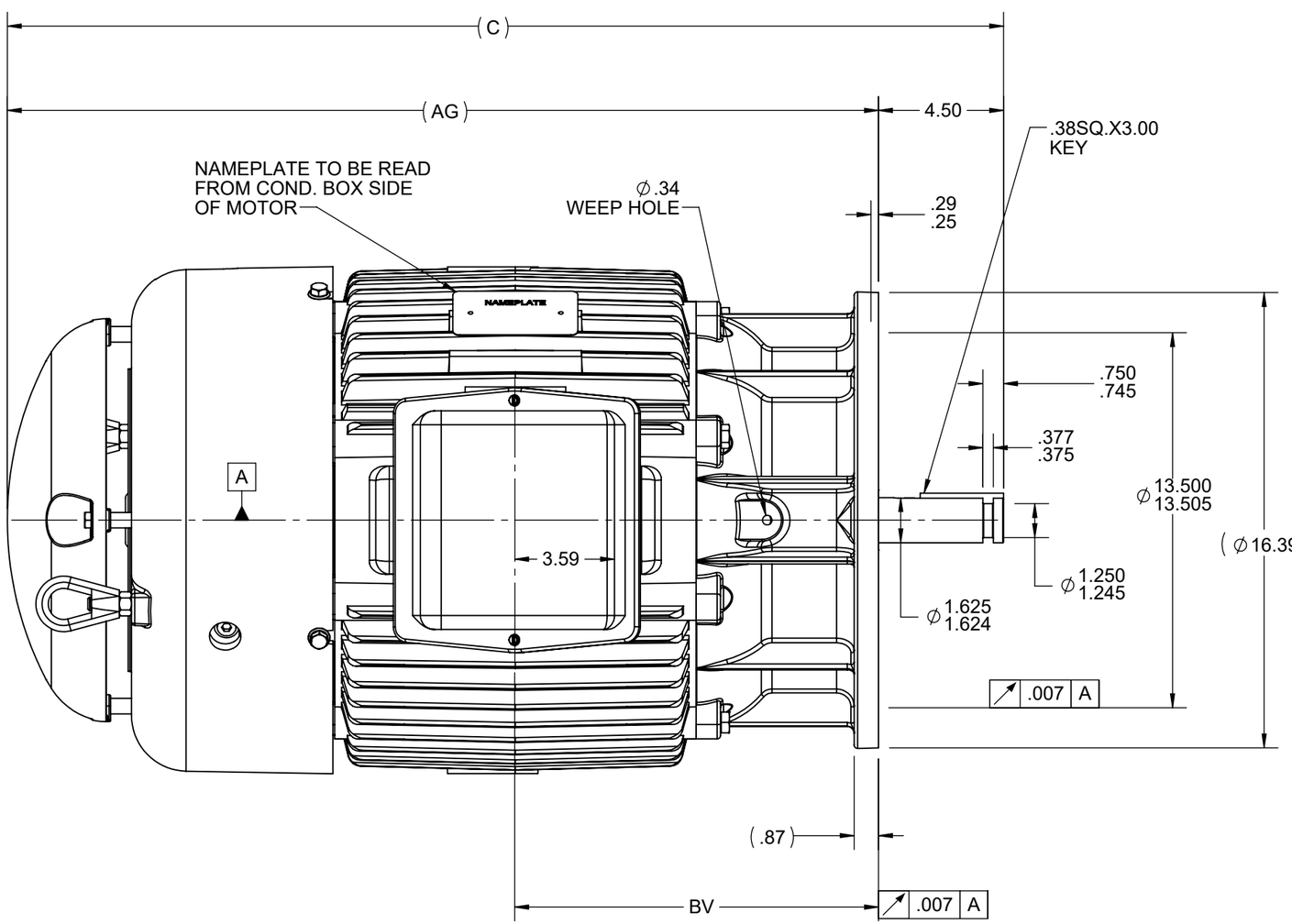
Technical Specifications

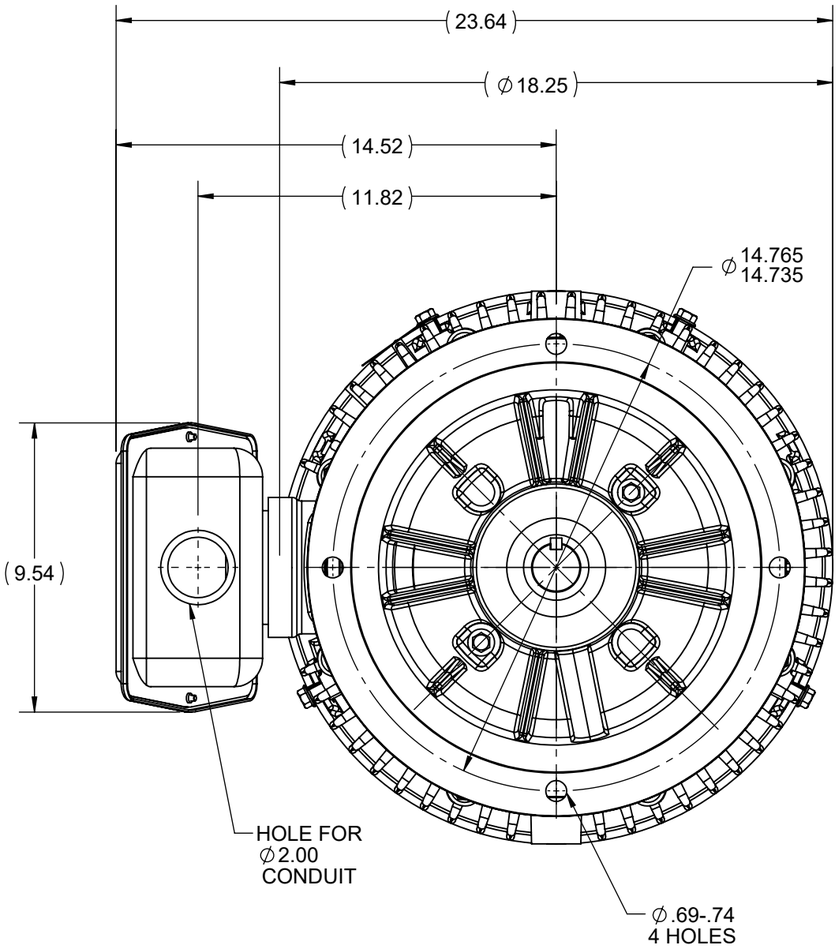
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.148 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**HP**	Overall Length	**35.62 in**
Frame Length	**13.0 in**	Shaft Diameter	**1 5/8 in**
Shaft Extension	**4.50 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7308K**	Outline Drawing	**B-SS28363-1300**

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DASH	FRAME	C	AG	BV
1150	324HP	34.12	29.62	12.31
1300	326HP	35.85	31.35	13.08

DRAWING REVISION: B	REVISION BY: MN	REV DATE/© DATE: 11/19/2025
REQUEST NUMBER: NMR-0238828	APPROVED BY: LK	DATE: 11/19/2025
REQUEST NUMBER DESCRIPTION: UPDTAED TEMPLATE		

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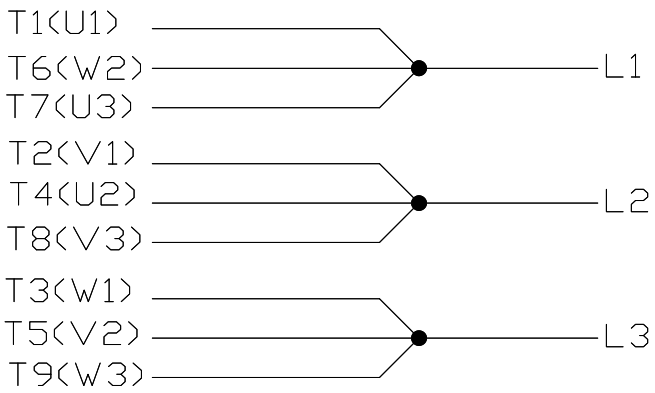
DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

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

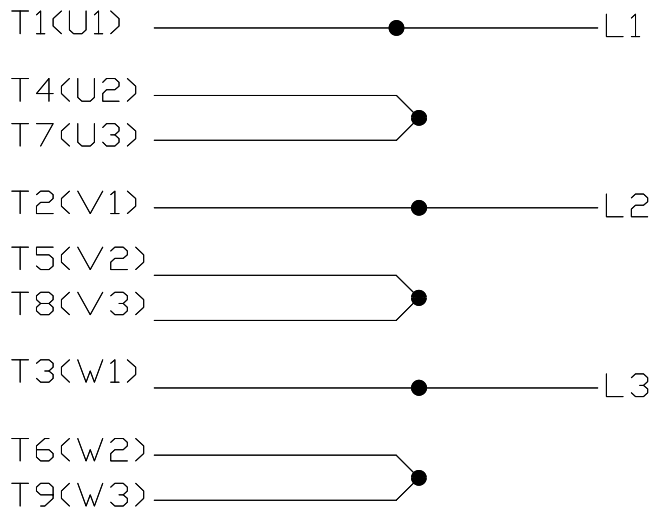
DRAWN BY: DRS	marathon™		
DATE: 11-22-1996			
APPROVED BY: ML	DESCRIPTION: OUTLINE 320HP FR. - BB - TS - TEFC		
DATE: 11-27-1996			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE: B	DRAWING NUMBER: SS28363	SHEET: 1 OF 1

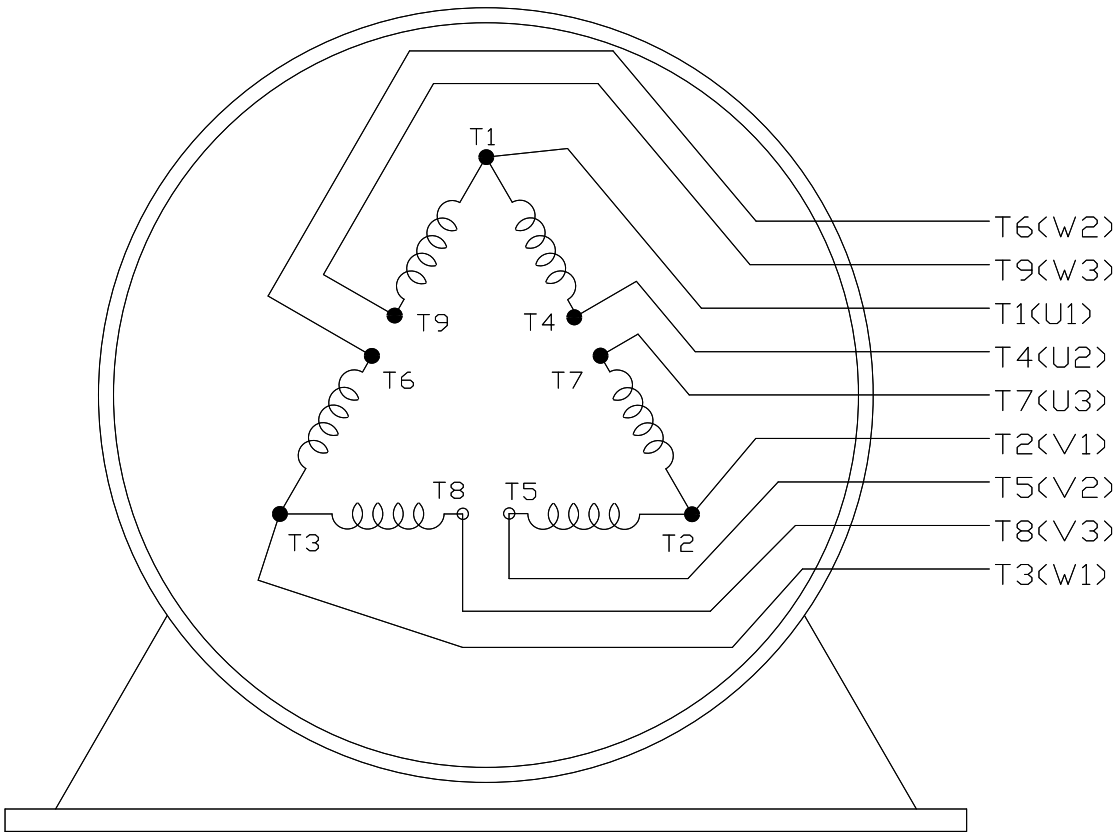
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LOW VOLTAGE



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

Data Sheet

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

marathon® electric

324TTFS16011

Submittal

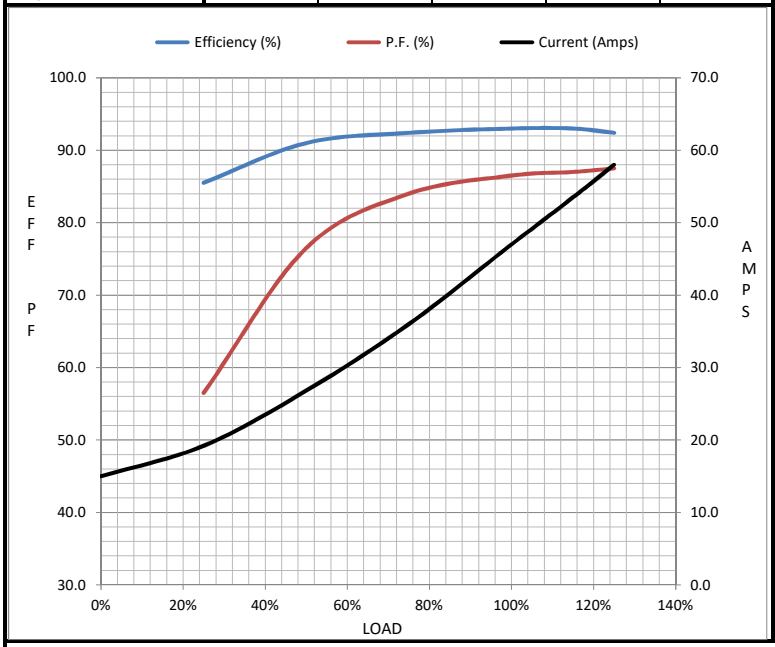
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	15.0	19.2	26.8	36.0	47.0	53.5	58.0	275	
Torque (ft-lb)	0.00	14.6	29.0	44.0	59.0	68.0	74.0	80.0	
RPM	3600	3588	3575	3565	3550	3,543	3537	0	
Efficiency (%)		85.5	91.0	92.4	93.0	93.0	92.4		
P.F. (%)	8.0	56.5	76.5	84.0	86.5	87.0	87.5	26.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3550	3600
Current (Amps)	275	248	168	47.0	15.0
Torque (ft-lb)	80.0	68.0	150	59.0	0.00



Information Block

HP	40.0	
Sync. RPM	3600	
Frame	324	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	60	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	4.4	Lb-Ft²
Ref Wdg	324267 NONE	
Sound Pressure @ 1M	78	dBA
VFD Rating	NONE	
Outline Dwg	B-SS28363-1300	
Conn. Diag	A-EE7308K	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1040	0.0780	0.7100	0.5040	17.8920

Speed -Torque Curve

