marathon®

Vertical Pump Motors

Model No: 444TTFN16081
Catalog No: M922B

Vertical Pump Motor, 100 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 444HPV Frame, TEFC

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Product Information Packet: Model No: 444TTFN16081, Catalog No: M922B Vertical Pump Motor, 100 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 444HPV Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**100 Hp**
Output KW	**75.0 kW**	Voltage	**230/460 V**
Speed	**1188 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**444HPV**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**95 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**248.0/124.0 A**
Power Factor	**80**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6313**
Opp Drive End Bearing Size	**6316**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

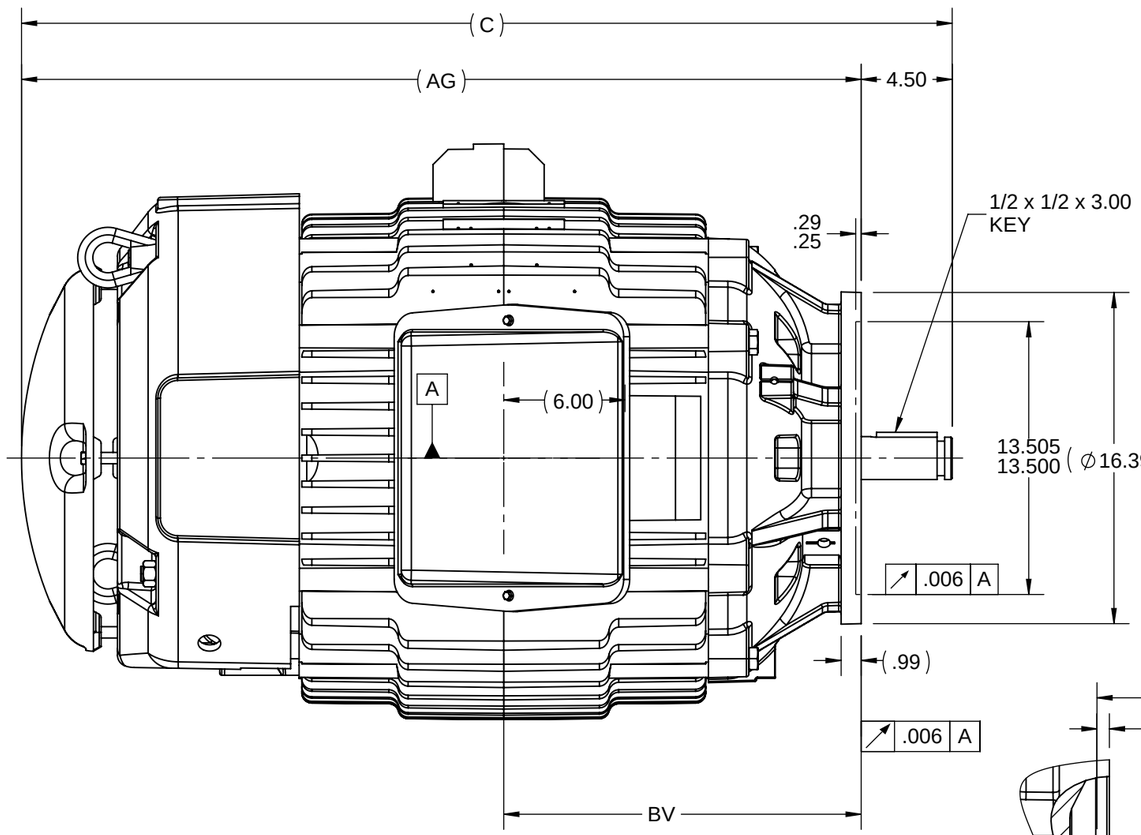
Technical Specifications

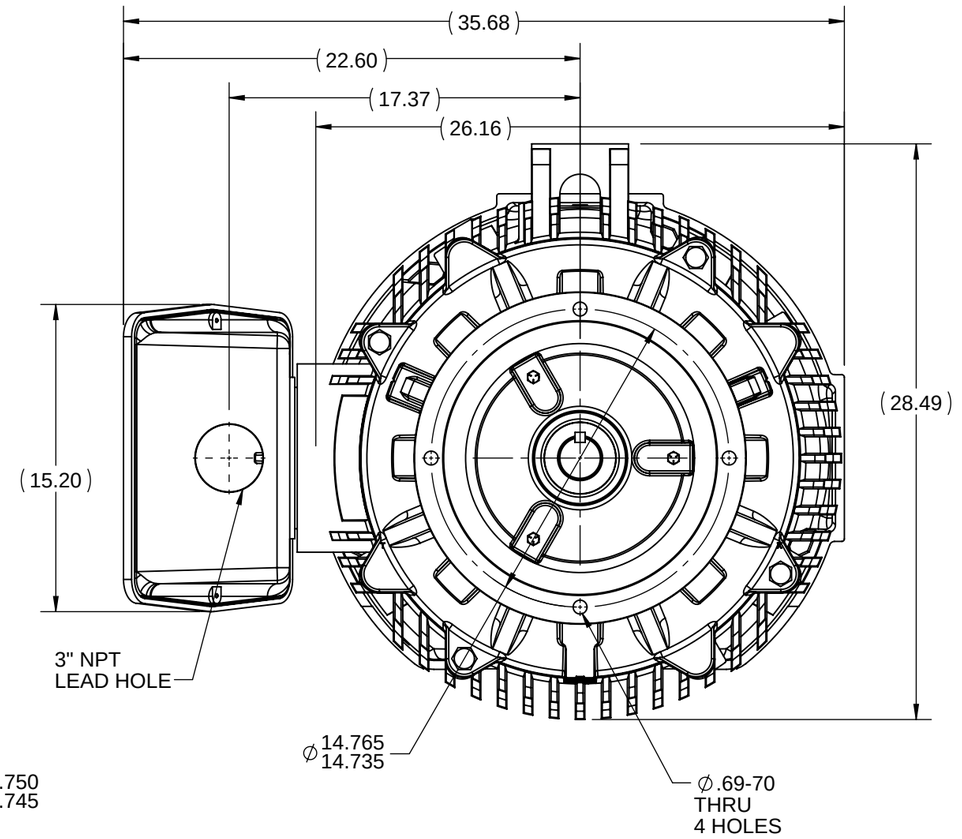
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.048 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**HP**	Overall Length	**43.5 in**
Frame Length	**20.25 in**	Shaft Diameter	**2 1/8 in**
Shaft Extension	**4.50 in**	Assembly/Box Mounting	**F1/F2 Capable**

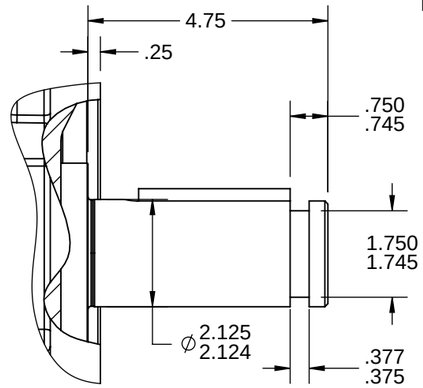
Drawings

Connection Drawing	**EE7308K**	Outline Drawing	**B-SS514394-2025**

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SHAFT EXTENSION DETAIL

NOTE:
1. CONDUIT BOX CAN BE ROTATED IN 90˚ STEPS.
2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF THE MOTOR.

DASH	FRAME	C	AG	BV
2025	444/445HP	46.06	41.56	17.69

DRAWING REVISION	REVISION BY	REV DATE/© DATE
F	SB	07/09/2026
REQUEST NUMBER	APPROVED BY	DATE
NMR-0240388	VG	07/09/2026

REQUEST NUMBER DESCRIPTION
PBOM SIMPLIFICATION

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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]	

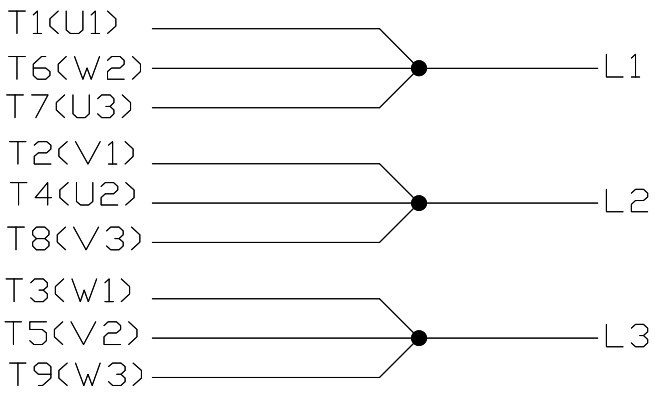
REMOVE BURRS & BREAK SHARP
EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	DESCRIPTION
DA	OUTLINE
DATE	444/445HP - FR. - TEFC
12/14/1992	
APPROVED BY	
TB	
DATE	
12/16/1992	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS514394 / SHEET 1 OF 1

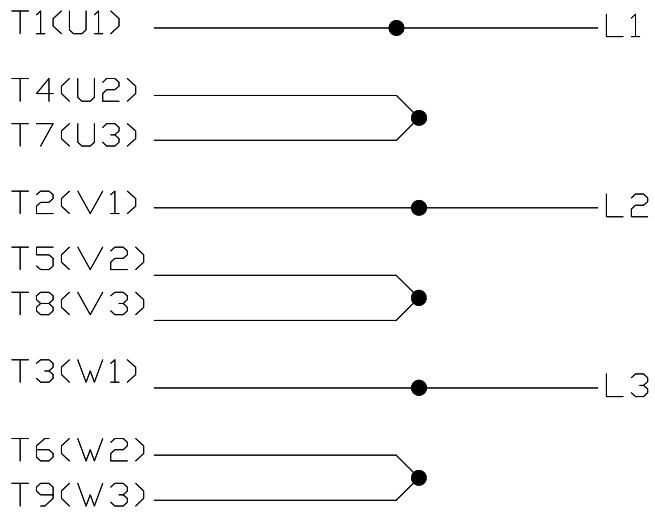
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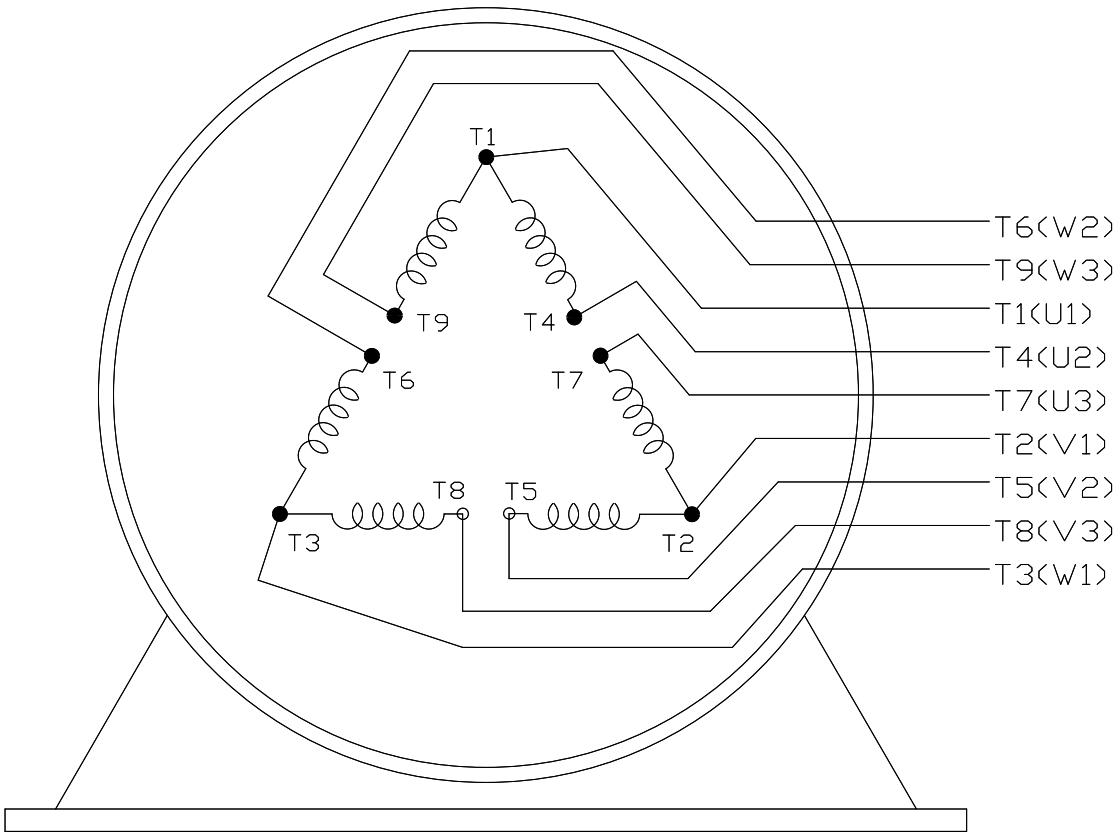
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LOW VOLTAGE



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

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Data Sheet

Date: 12/3/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

444TTFN16081

Submittal

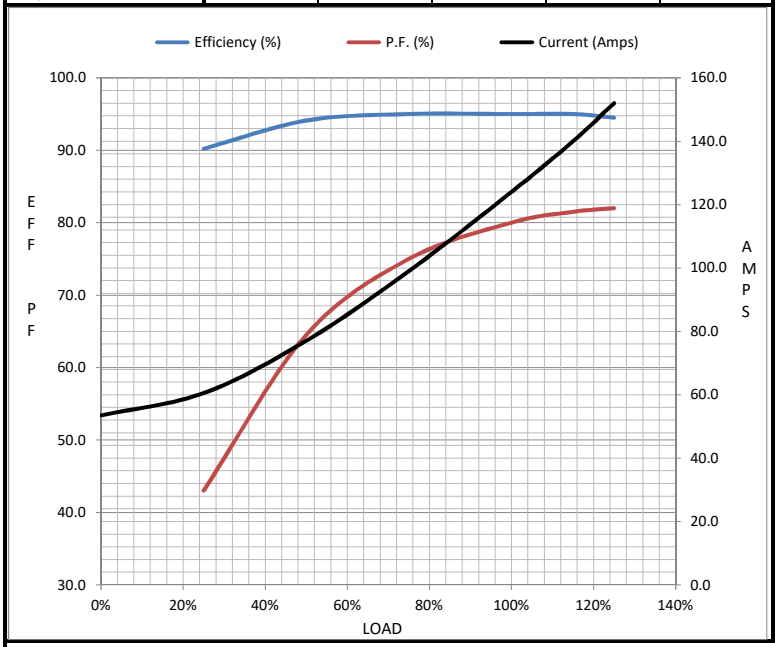
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	53.5	60.5	77.0	99.0	124	140	152	725	
Torque (ft-lb)	0.00	110	220	331	442	509	554	750	
RPM	1200	1198	1195	1192	1188	1,186	1184	0	
Efficiency (%)		90.2	94.1	95.0	95.0	95.0	94.5		
P.F. (%)	4.0	43.0	64.5	75.0	80.0	81.5	82.0	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1188	1200
Current (Amps)	725	650	425	124	53.5
Torque (ft-lb)	750	600	1,100	442	0.00



Information Block

HP	100.0	
Sync. RPM	1200	
Frame	444	
Enclosure	TEFC	
Construction	TFN	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	70	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	55.0	Lb-Ft²
Ref Wdg	T444689 NONE	
Sound Pressure @ 1M	72	dBA
VFD Rating	NONE	
Outline Dwg	B-SS514394-2025	
Conn. Diag	A-EE7308K	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0340	0.0220	0.2350	0.2780	4.8420

