marathon®

Vertical Pump Motors

Model No: 256TTFNA16106
Catalog No: M892B

Vertical Pump Motor, 20 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 256HPV Frame, TEFC

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Product Information Packet: Model No: 256TTFNA16106, Catalog No: M892B Vertical Pump Motor, 20 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 256HPV Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**20 Hp**
Output KW	**14.9 kW**	Voltage	**230/460 V**
Speed	**3520 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**256HPV**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**48.0/24.0 A**
Power Factor	**87**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6210**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

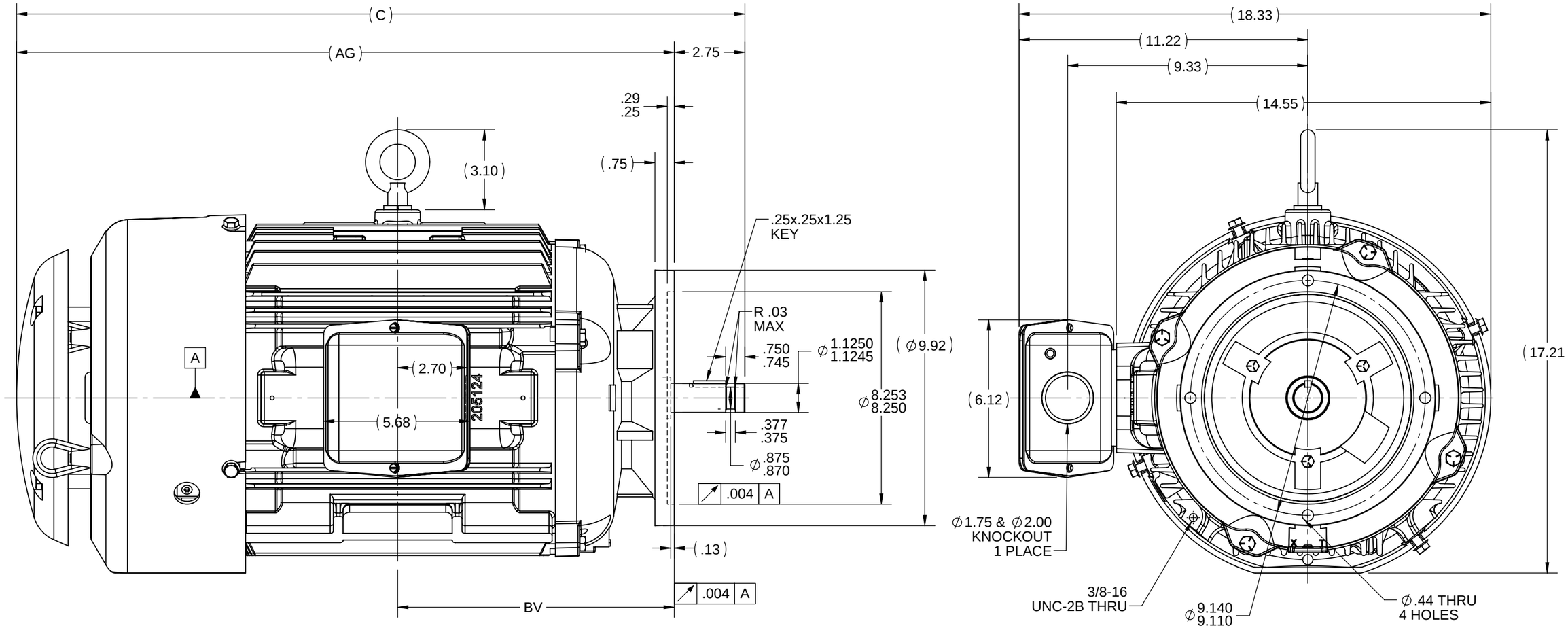
Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.485 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	**28.26 in**
Frame Length	**12.25 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.75 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7308K**	Outline Drawing	**SS203314A-1225**

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NOTES:
1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
2. CONDUIT BOX CAN ONLY ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.

DASH	FRAME	C	AG	BV
1225	254/256 HP	28.30	25.55	10.75

DRAWING REVISION	REVISION BY	REV DATE/© DATE
A		
REQUEST NUMBER	APPROVED BY	DATE
NMR-0240439		
REQUEST NUMBER DESCRIPTION		
NEW DRAWING		

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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	MN
DATE	07/21/2026
APPROVED BY	SR
DATE	07/21/2026
REFERENCE	SS203116
THIRD ANGLE PROJECTION	

marathon™

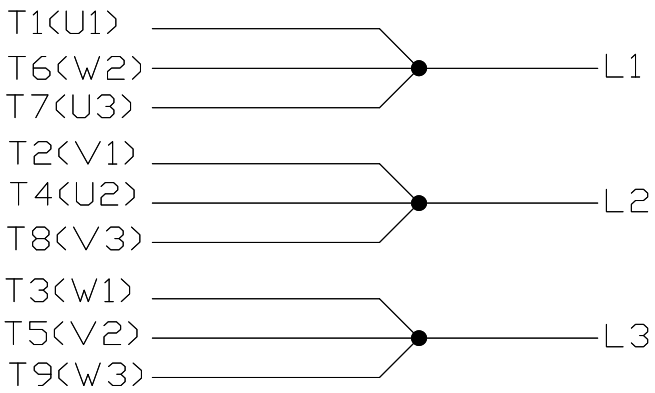
DESCRIPTION
OUTLINE
250HP FR. P- BASE - TEFC

MATERIAL | PROCESS/FINISH

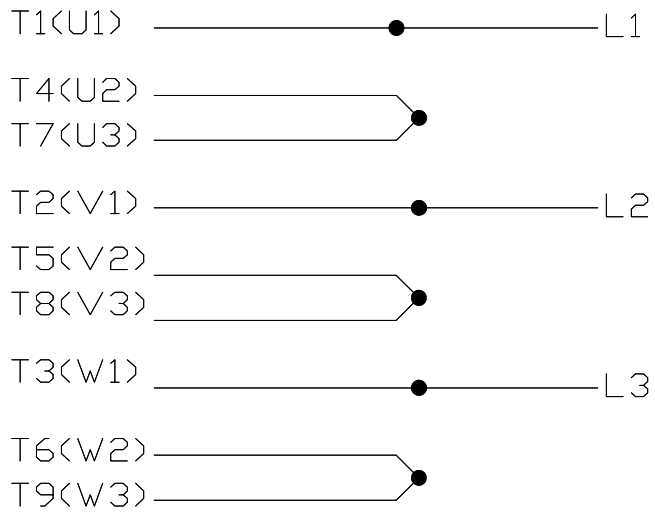
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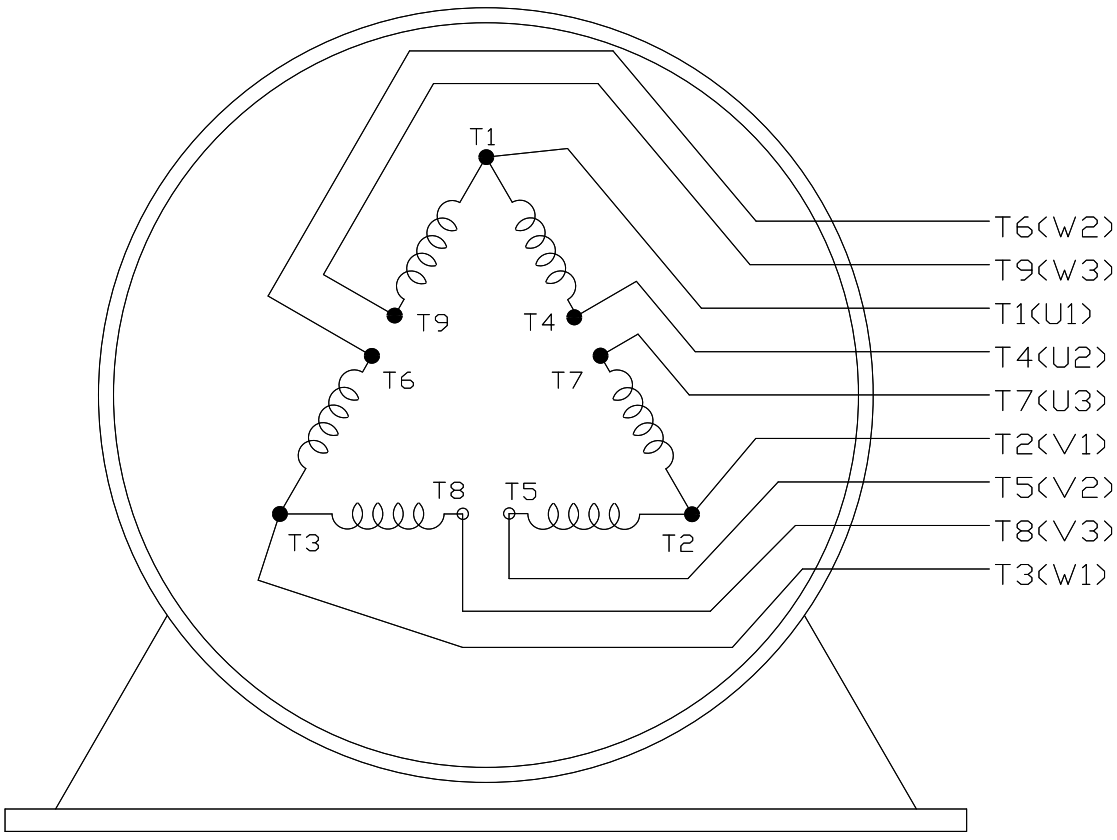
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LOW VOLTAGE



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
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Data Sheet

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

marathon® electric

256TTFNA16106

Submittal

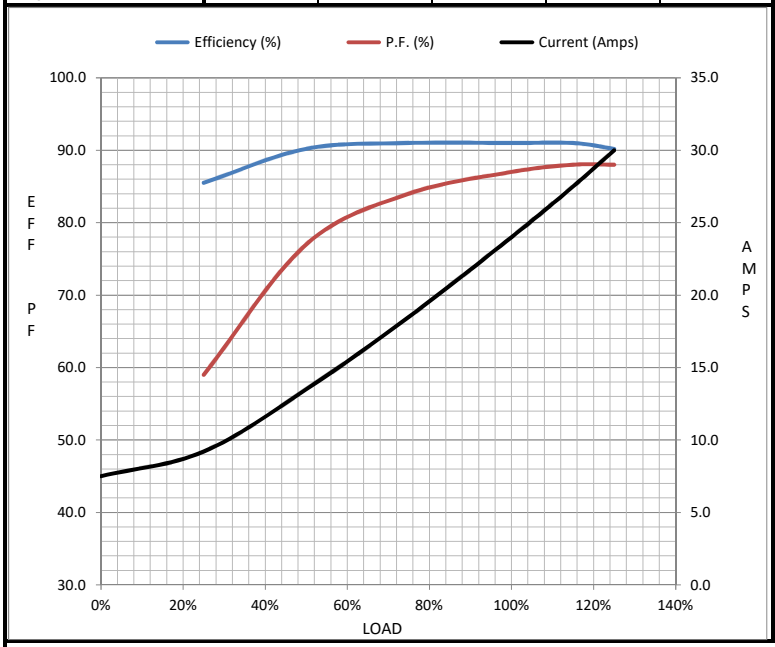
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.5	9.2	13.5	18.5	24.0	27.5	30.0	145	
Torque (ft-lb)	0.00	7.5	14.8	22.2	29.8	34.5	37.5	50.0	
RPM	3600	3580	3560	3540	3520	3,510	3490	0	
Efficiency (%)		85.5	90.2	91.0	91.0	91.0	90.2		
P.F. (%)	8.5	59.0	77.0	84.0	87.0	88.0	88.0	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3200	3520	3600
Current (Amps)	145	130	100	24.0	7.5
Torque (ft-lb)	50.0	50.0	78.0	29.8	0.00



Information Block

HP	20.0	
Sync. RPM	3600	
Frame	256	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	75	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	1.15	Lb-Ft²
Ref Wdg	K2562213 NONE	
Sound Pressure @ 1M	72	dBA
VFD Rating	NONE	
Outline Dwg	B-SS203116-1225	
Conn. Diag	A-EE7308K	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.3270	0.2200	1.1500	1.0790	34.6200

Speed -Torque Curve

