marathon®

Vertical Pump Motors

Model No: 286TTFNA16096
Catalog No: M894B

Vertical Pump Motor, 20 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 286HPV Frame, TEFC

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Product Information Packet: Model No: 286TTFNA16096, Catalog No: M894B Vertical Pump Motor, 20 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 286HPV Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**20 Hp**
Output KW	**14.9 kW**	Voltage	**230/460 V**
Speed	**1175 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**286HPV**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**92.1 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**53.5/26.7 A**
Power Factor	**76.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6210**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

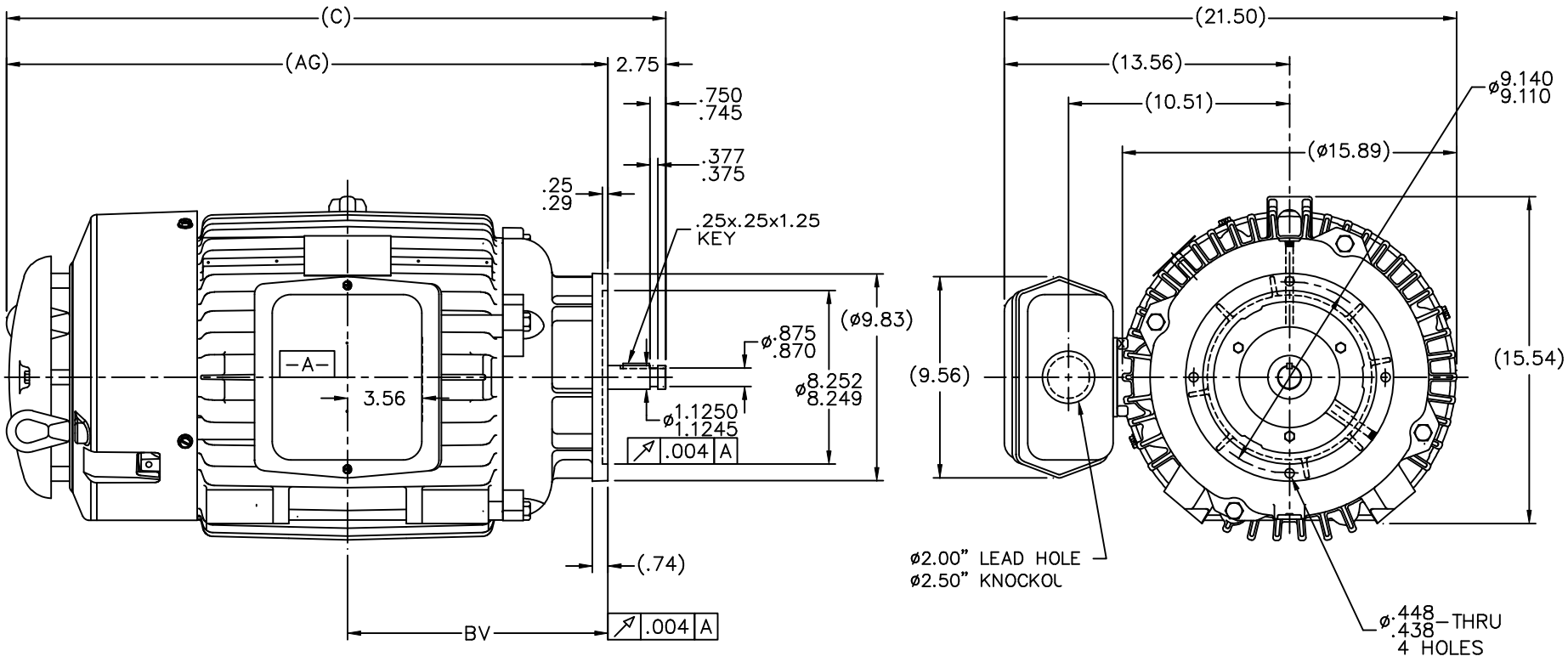
Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.408 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	**30.84 in**
Frame Length	**14.25 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.75 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**A-EE7308**	Outline Drawing	**B-SS311022-1425**

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

DASH	FRAME		AG	C			BV
1425	284/286HP		28.09	30.84			12.13
1475	284/286HP		28.59	31.34			12.38

NO.	REVISION	BY & DATE	CHK
3	REDRAW ON AUTOCAD	HLB 09-07-2004	ML
2	CORRECTED C'BOX HOLE NOTE CN 29200-1454	HLB 02-16-2001	
1	NEW DRAWING MU25722	DRS 04-06-2000	

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

MARATHON ELECTRIC

TITLE OUTLINE - TEFC - TGN
280HP FR. - BB - STD - 12.50 LAM

MAT'L.

FINISH

CAD FILE ss311022

RFP

DIST LB

DRAWN DRS 03-30-2000
CHK ML 04-06-2000
APPD GK 04-06-2000
SCALE 1=5
REF
FMF
PREV

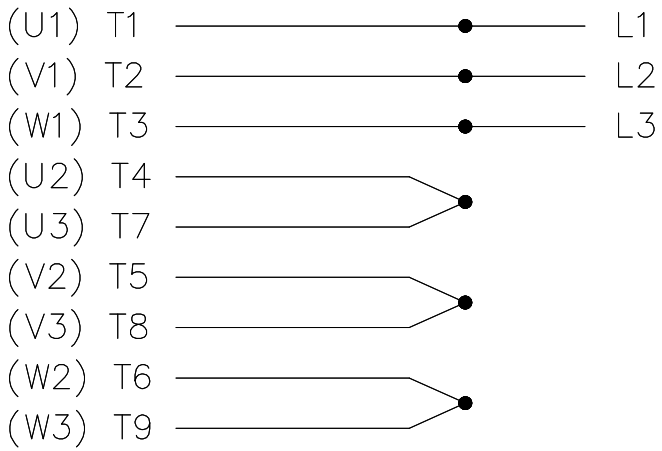
SIZE	DRAWING NO.	PAGE OF	REV.
B	SS311022		3

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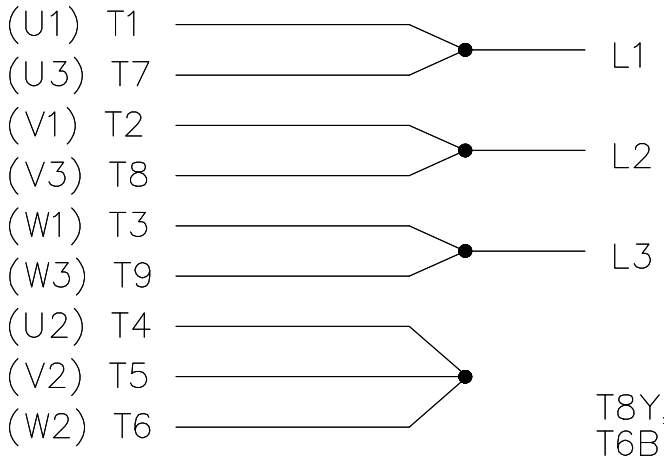
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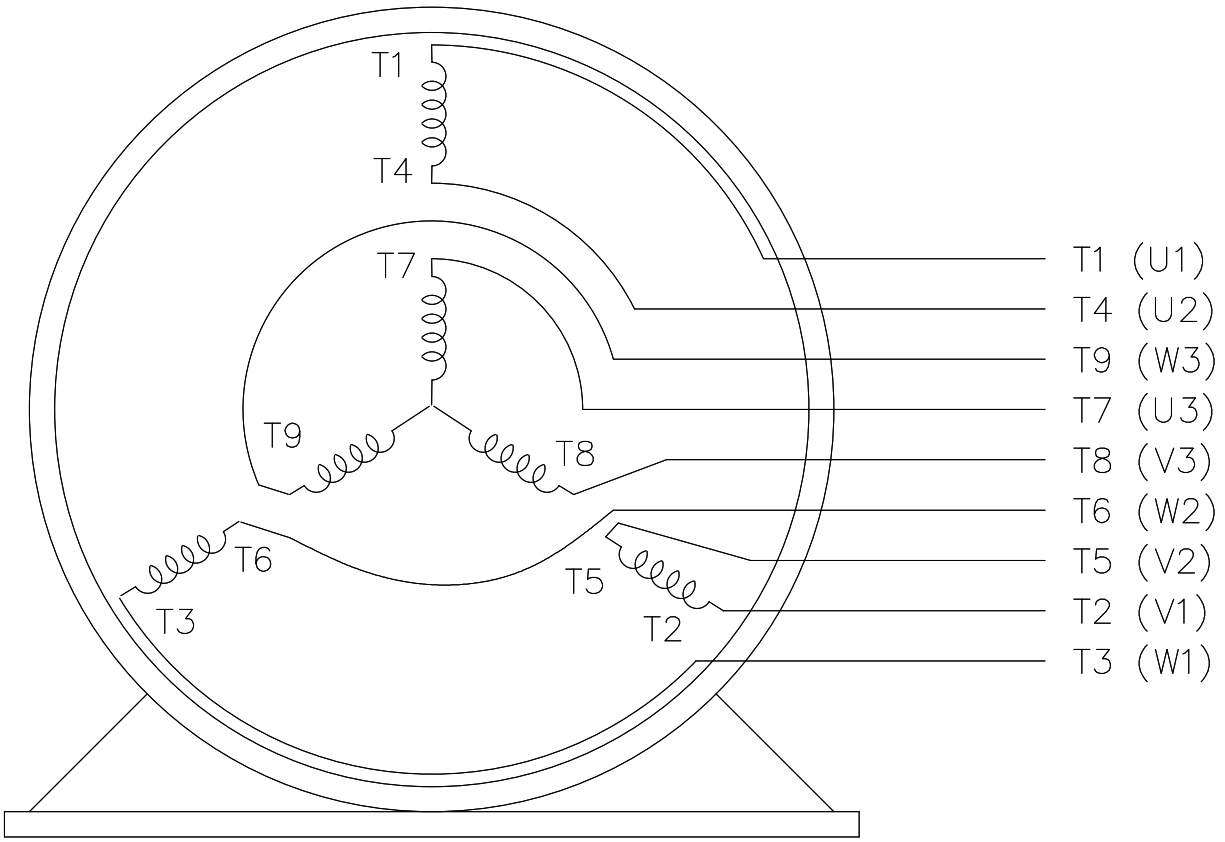
THREE PHASE
DUAL VOLTAGE MOTOR

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

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

MATERIAL	PROCESS/FINISH

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

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Data Sheet

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

marathon® electric

286TTFNA16096

Submittal

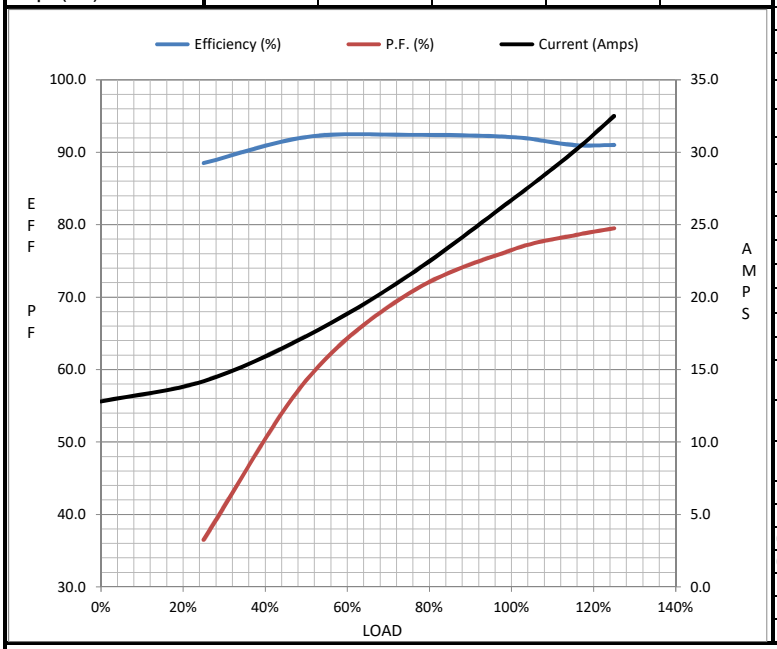
Data @ **460** V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.8	14.2	17.3	21.5	26.7	30.0	32.5	145	
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	103	112	162	
RPM	1200	1195	1188	1180	1175	1,170	1165	0	
Efficiency (%)		88.5	92.1	92.4	92.1	91.0	91.0		
P.F. (%)	3.0	36.5	58.5	70.5	76.5	78.5	79.5	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1100	1175	1200
Current (Amps)	145	132	89.0	26.7	12.8
Torque (ft-lb)	162	140	220	89.0	0.00



Information Block

HP	20.0	
Sync. RPM	1200	
Frame	286	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	65	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	4.8	Lb-Ft²
Ref Wdg	2866129 NONE	
Sound Pressure @ 1M	56	dBA
VFD Rating	NONE	
Outline Dwg	B-SS311022-1425	
Conn. Diag	A-EE7308	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.2750	0.2410	1.2490	1.2770	19.7240

Speed -Torque Curve

