marathon®

Vertical Pump Motors

Model No: 284TTFPA16033
Catalog No: M890B

Vertical Pump Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 284HPV Frame, TEFC

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Product Information Packet: Model No: 284TTFPA16033, Catalog No: M890B Vertical Pump Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 284HPV Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**15 & 10 Hp**
Output KW	**11.2 & 7.5 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1770 & 1475 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.00**	Frame	**284HPV**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**92.4 & 92.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**36/18 & 30/15 A**
Power Factor	**85**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6210**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

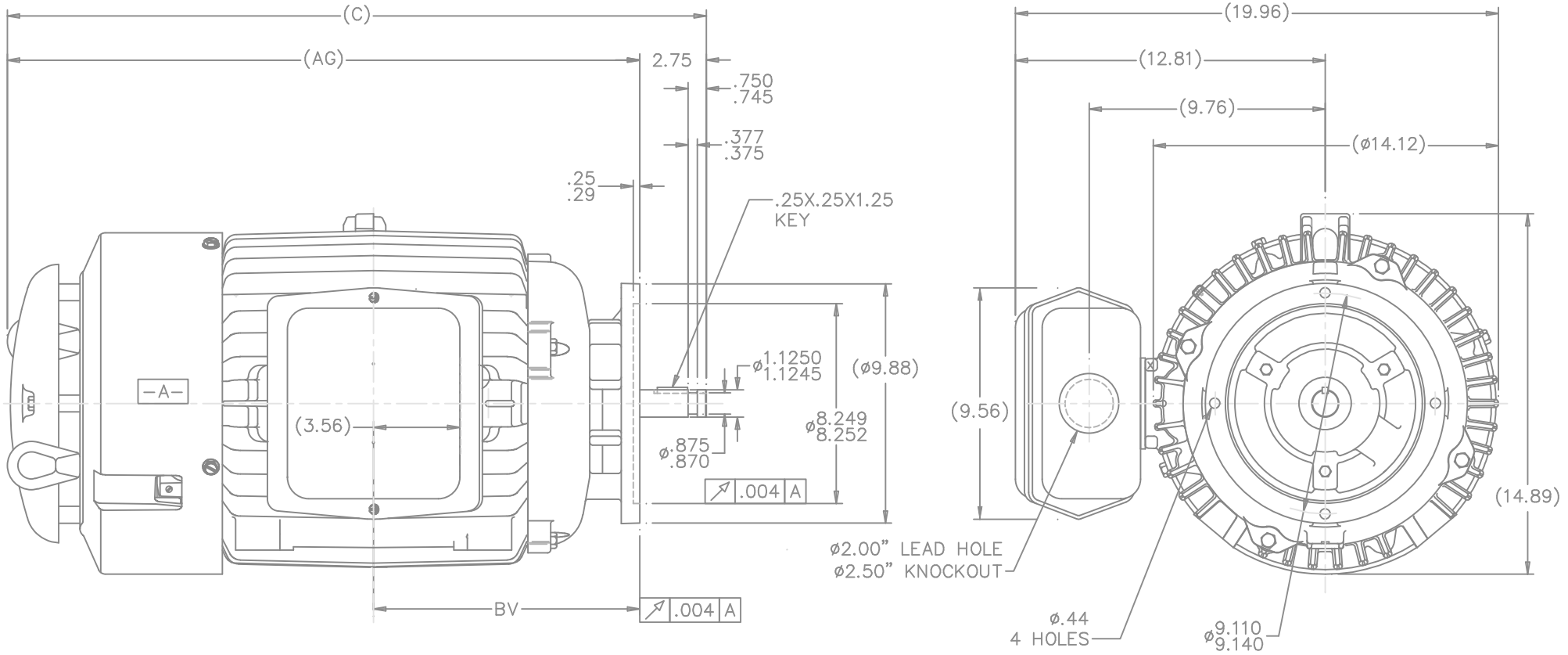
Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.629 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	**28.88 in**
Frame Length	**12.75 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.75 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7308**	Outline Drawing	**B-SS311024-1275**

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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
1275	284/6HP	26.13	28.88	11.00
1425	284/6HP	27.63	27.38	12.50

NO.	REVISION	BY & DATE	CHK
3	CHANGED TOLERANCE FROM .007 TO .004 CN 31741	BJK 07-18-2002	DRS
2	CORRECTED C'BOX HOLOE NOTE CN 29200-1454	HLB 02-16-2001	
1	NEW DRAWING MU23810	CAV 05-03-2000	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

MARATHON ELECTRIC

DRAWN CAV 04-17-2000
CHK ML 05-03-2000
APPD GK 05-03-2000
SCALE 1=4
REF
FMF
PREV

TITLE OUTLINE - TEFC
280HP FR. - BB - P'BASE - 11.00 LAM
MAT'L.
FINISH
CAD FILE ss311024
RFP
DIST LB

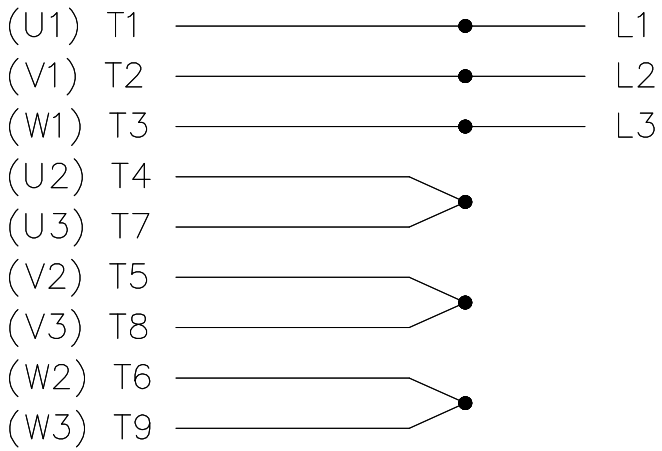
SIZE B | DRAWING NO. SS311024 | PAGE OF | REV. 3

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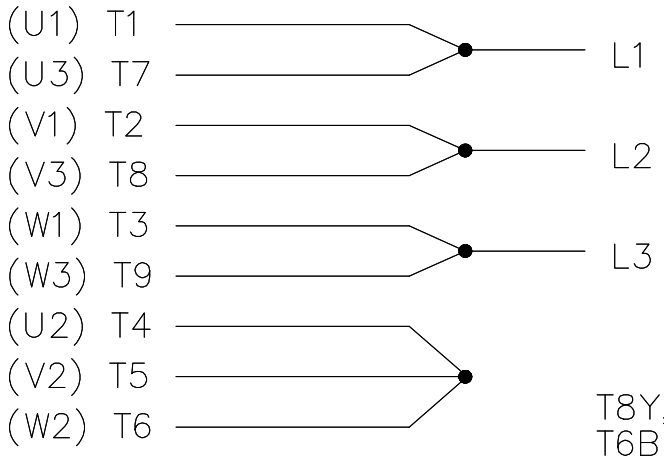
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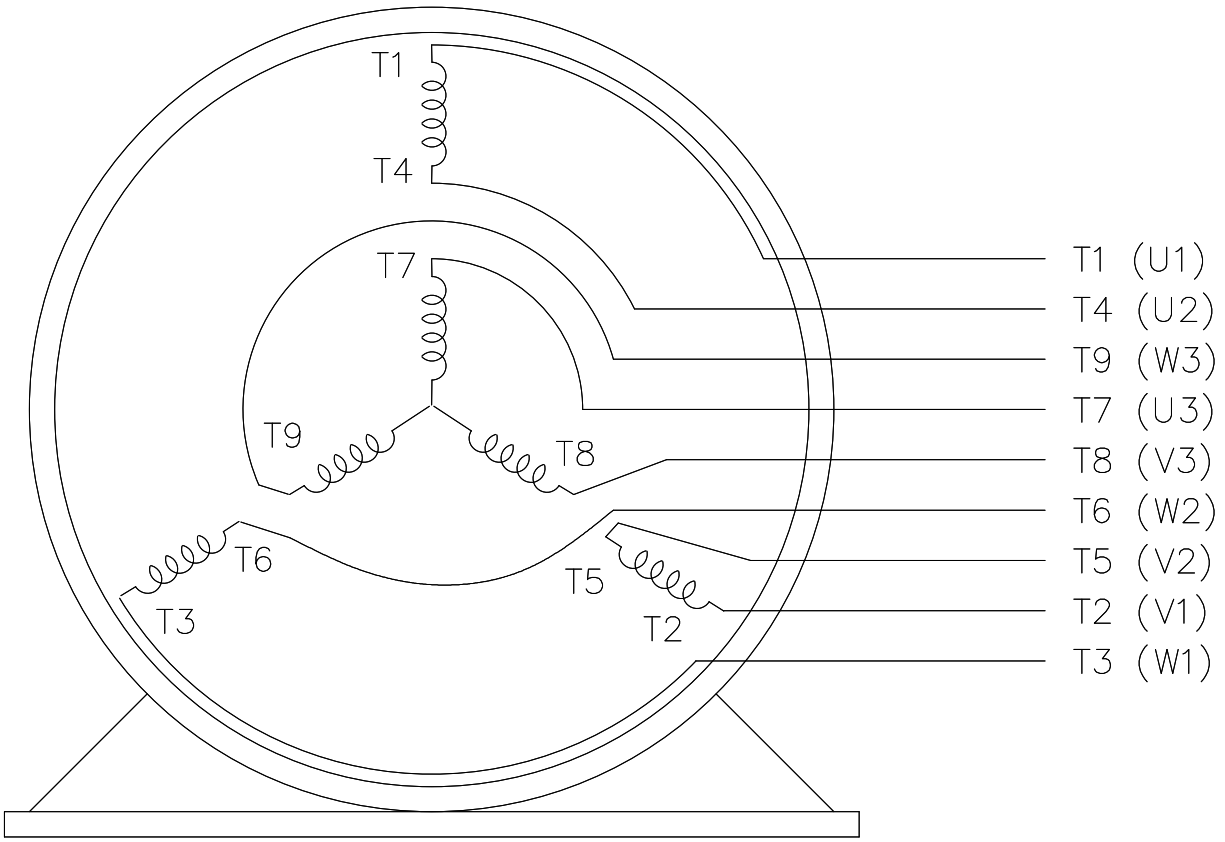
THREE PHASE
DUAL VOLTAGE MOTOR

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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DRAWN BY: RM	
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

Uncontrolled Copy

Data Sheet

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

marathon® electric

284TTFPA16033

Submittal

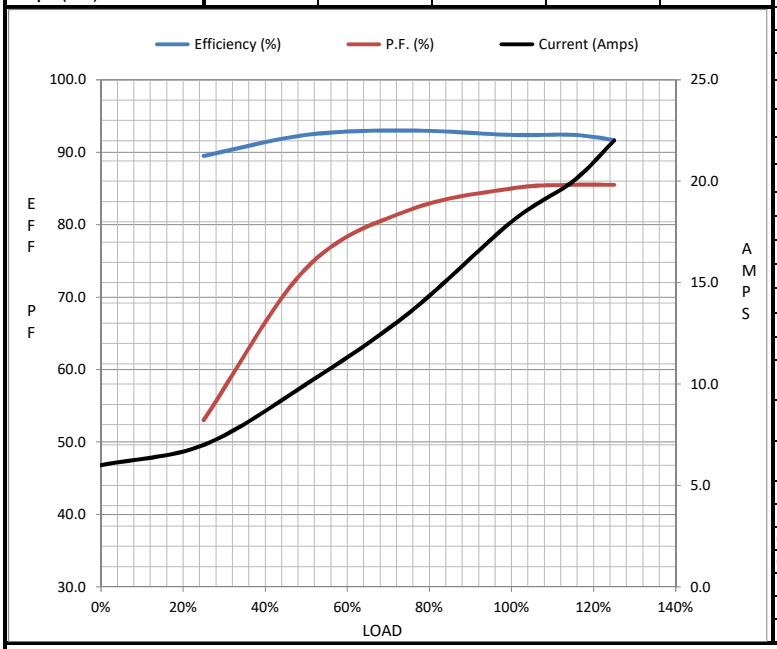
Data @ **460** V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.0	7.0	10.0	13.5	18.0	20.0	22.0	100	
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.5	51.5	56.0	75.0	
RPM	1800	1790	1785	1775	1770	1,765	1760	0	
Efficiency (%)		89.5	92.4	93.0	92.4	92.4	91.7		
P.F. (%)	6.0	53.0	74.0	82.0	85.0	85.5	85.5	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1640	1770	1800
Current (Amps)	100	90.0	65.0	18.0	6.0
Torque (ft-lb)	75.0	68.0	110	44.5	0.00



Information Block

HP	15.0	
Sync. RPM	1800	
Frame	284	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460#190/380	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	2.70	Lb-Ft²
Ref Wdg	K2564174 R1	
Sound Pressure @ 1M	65	dBA
VFD Rating	NONE	
Outline Dwg	B-SS311024-1275	
Conn. Diag	A-EE7308	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.3650	0.2820	1.4690	2.2870	44.0370

Speed -Torque Curve

