

# PRODUCT INFORMATION PACKET

Model No: 284THFNA9076  
Catalog No: W548  
15,1200,TEFC,284T,3/60/460  
IEEE 841



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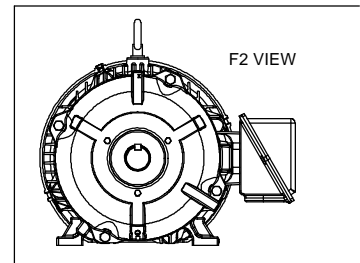
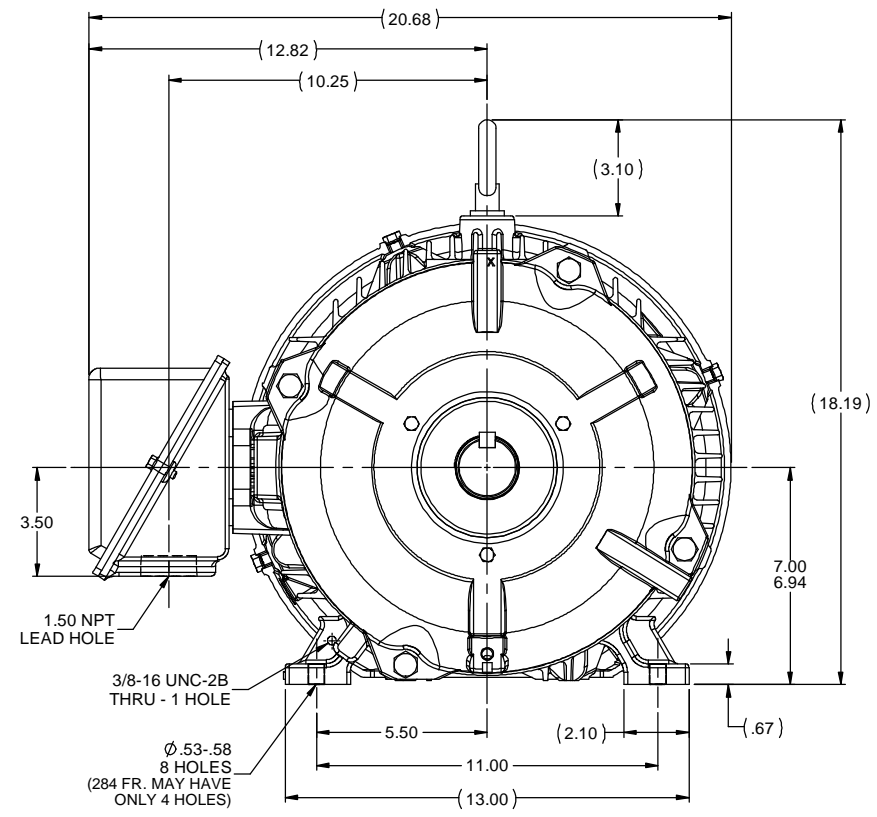
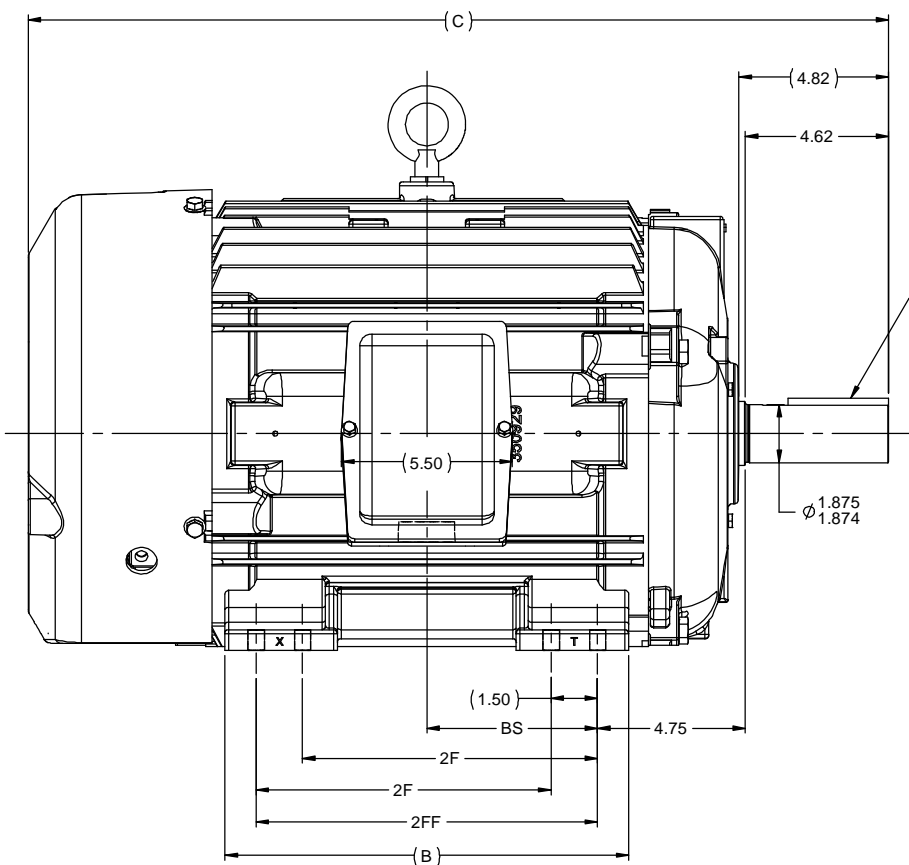
### Nameplate Specifications

Output HP	<b>15 Hp</b>	Output KW	<b>11.2 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>460 V</b>
Current	<b>20.4 A</b>	Speed	<b>1178 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>91.7 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>284T</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6311</b>
Opp Drive End Bearing Size	<b>6210</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>56</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>HORIZONTAL</b>
Drive End Bearing	<b>BALL</b>	Opp Drive End Bearing	<b>BALL</b>
Frame Material	<b>Cast Iron</b>	Shaft Type	<b>T</b>
Overall Length	<b>26.21 in</b>	Frame Length	<b>12.75 in</b>
Shaft Diameter	<b>1.875 in</b>	Shaft Extension	<b>4.62 in</b>
Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>		
Outline Drawing	<b>B-SS311057-1275</b>	Connection Diagram	<b>A-EE7300</b>

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- NOTES:
1. CONDUIT BOX CAN BE ROTATED UP TO 270 ° FROM ITS ORIGINAL POSITION.
  2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 °.
  3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

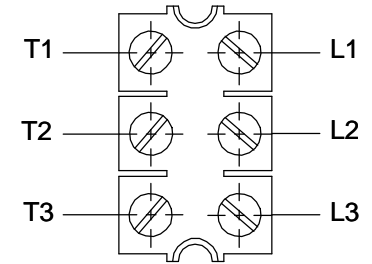
1275	284T	26.21	12.50	9.50	---	4.75
1425	284/286T	27.71	13.00	9.50	11.00	5.50
<b>DASH</b>	<b>FRAME</b>	<b>C</b>	<b>B</b>	<b>2F</b>	<b>2FF</b>	<b>BS</b>

		TOLERANCES UNLESS SPECIFIED		marathon electric		DRAWN CAV 10-18-2000	
		DEC	INCHES			CHK ML 10-18-2000	APPR BW 10-18-2000
4	UPDATED TO NEW FRAME DESIGN MU106205	MSG 08-22-2012	MSG x	±.1			
3	REDRAWN IN AUTOCAD - NO CHANGE	TAT 06-29-2004	ML xx	±.03	TITLE OUTLINE - TEFC - TGN		SCALE 1:4
2	ADDED NOTE 3 MU35810	DAH 02-06-2001	ML xxx	±.005	280T FR. - BB - STD - 12.50 LAM.		REF
1	NEW DRAWING MU34031	MSG 08-23-2012	ML xxxxx	±.0005	MATL		FMF MU34031
NO	REVISION	BY & DATE	CHK LANG	±1/2°	FINISH		PAGE OF
					PREV		REV
					NETWORK FILE NAME SS311057	SIZE <b>B</b>	DRAWING NO <b>SS311057</b>
							REV <b>4</b>

**THREE PHASE - SINGLE VOLTAGE  
MOTOR - CONDUIT BOX @ 'A'**

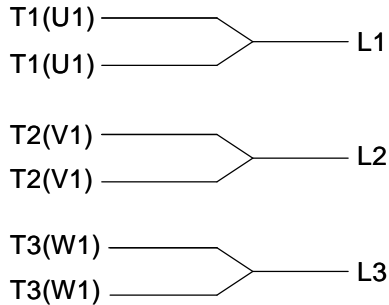
**TO REVERSE ROTATION:  
INTERCHANGE ANY TWO  
LINE LEAD CONNECTIONS.**

**TERMINAL BLOCK WHEN SPECIFIED**



**VIEW OF TERMINAL END**

**IF MOTOR HAS  
6 LEADS**



**A-9806 DECAL**

**OPTIONAL CORD  
CONNECTION**

- L1 WHITE
- L2 RED
- L3 BLACK

DRAWING REVISION <b>AB</b>	REVISION BY <b>JJB</b>	DATE <b>06-27-2017</b>
ECO <b>ECO-0125361</b>	APPROVED BY <b>TB</b>	DATE <b>06-27-2017</b>
ECO DESCRIPTION <b>UPDATED TO CURRENT STANDARDS</b>		
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DRAWN BY <b>DA</b>
DATE <b>03-26-1993</b>
APPROVED BY <b>TB</b>
DATE <b>03-26-1993</b>
REFERENCE
THIRD ANGLE PROJECTION

<b>Regal Beloit America, Inc.</b>		
		DESCRIPTION <b>CONNECTION DIAGRAM</b> EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR
MATERIAL	PROCESS/FINISH	
SIZE <b>A</b>	DRAWING NUMBER <b>EE7300</b>	SHEET <b>1 OF 1</b>

Data Sheet

294TFHNA9076



Submittal  
Data @ 460 V

Date: 6/20/2017

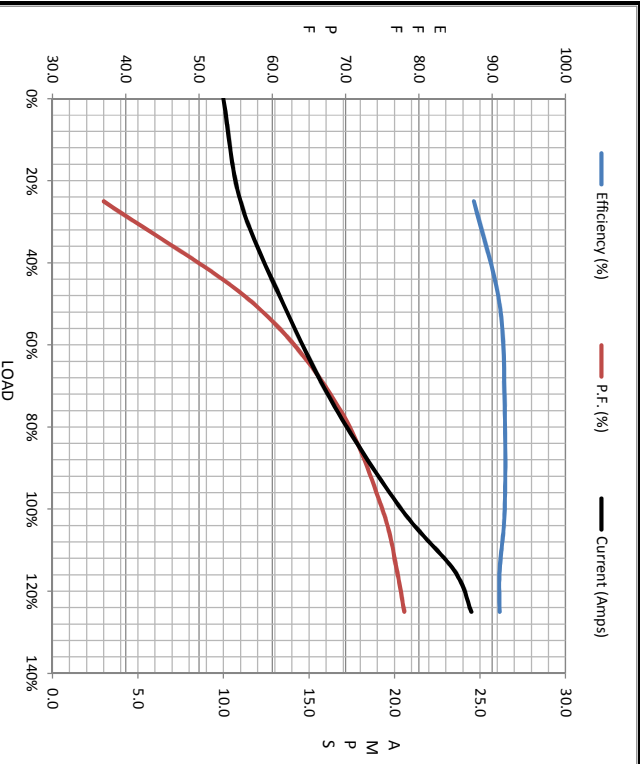
Customer:   
Attention:   
Submitted by: FAREEDA DUDEKULA

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	10.0	11.0	13.5	16.5	20.4	23.5	24.5	116
Torque (ft-lb)	0.00	16.5	33.0	50.0	66.9	77.0	84.0	120
RPM	1200	1194	1190	1184	1178	1174	1172	0
Efficiency (%)		87.5	91.0	91.7	91.7	91.0	91.0	
P.F. (%)	5.1	37.0	57.5	69.0	75.0	77.0	78.0	35.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block
Speed (rpm)	0	700	1085	1178	1200	HP 15.0
Current (Amps)	116	110	75.0	20.4	10.0	Sync. RPM 1200
Torque (ft-lb)	120	115	205	66.9	0.00	Frame 284
						Enclosure TFC
						Construction TFN
						Voltage 460 V
						Frequency 60 Hz
						Design B
						LR Code letter G
						Service Factor 1.15
						Temp Rise @ FL 55 °C
						Duty CONT
						Ambient 40 °C
						Elevation 1,000 feet
						Rotor/Shaft wkt 4.1 Lb-Fe
						Ref Wdg 284658 NONE
						Sound Pressure @ 1M 56 dBA
						VFD Rating CONSTANT 10:1
						Outline Dwg B-SS311057-1275
						Conn. Diag A-EE7300
						Additional Specifications:
						0
						0



EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3580	0.3580	1.8640	2.0430	28.8150

