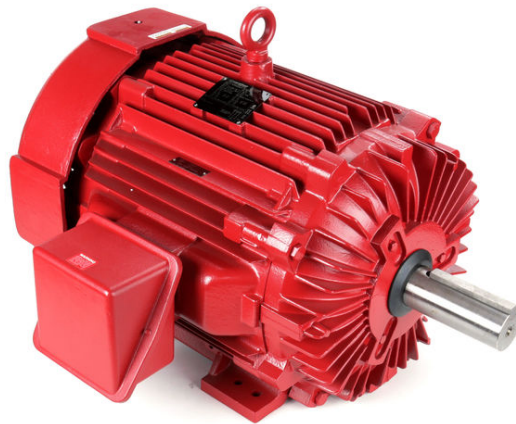


# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 286TTFNA14050  
Catalog No: Y1615  
30/25,1800/1500,TEFC,286T,3/60/230/460-190/380  
Fire Pump



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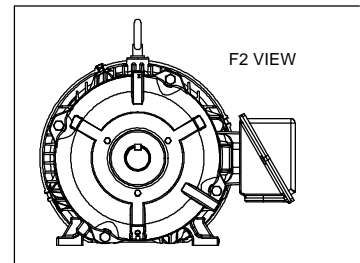
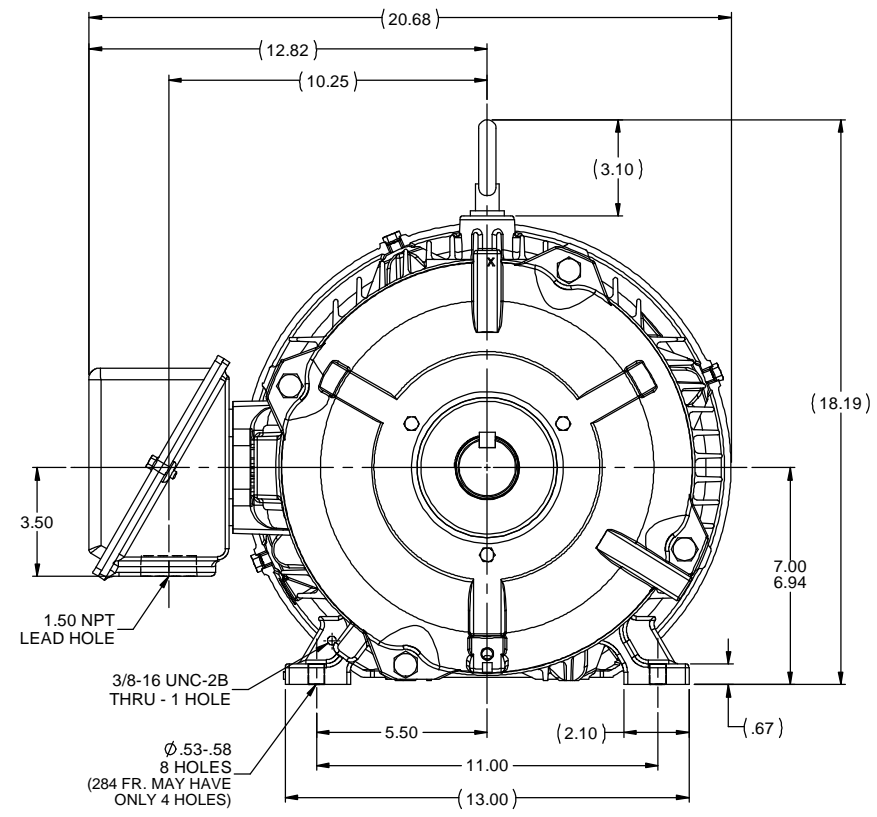
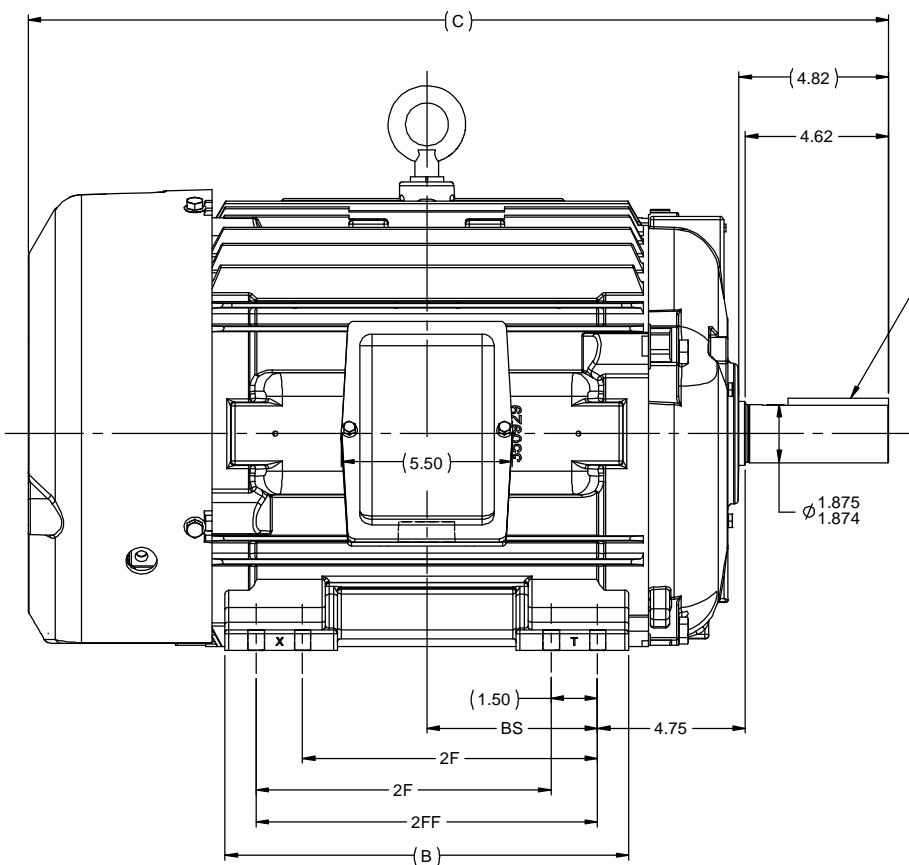
**REGAL**<sup>®</sup>

### Nameplate Specifications

Output HP	<b>30 Hp</b>	Output KW	<b>22.4 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>72.0/36.0 A</b>	Speed	<b>1768 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>92.4 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>F</b>	Frame	<b>286T</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>43</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Part Wdg Start Low Volt Only &amp; Wye Start Delta Run</b>
Poles	<b>4</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>27.71 in</b>	Frame Length	<b>14.25 in</b>
Shaft Diameter	<b>1.875 in</b>	Shaft Extension	<b>4.82 in</b>
Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>		
Outline Drawing	<b>B-SS311057-1425</b>	Connection Diagram	<b>A-EE7358</b>



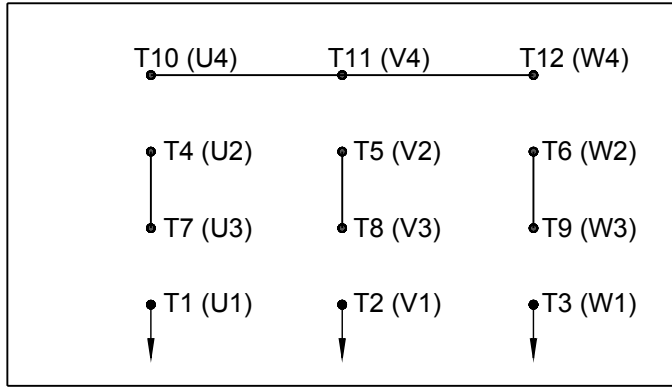
- NOTES:  
 1. CONDUIT BOX CAN BE ROTATED UP TO 270 ° FROM ITS ORIGINAL POSITION.  
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 °.  
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

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>

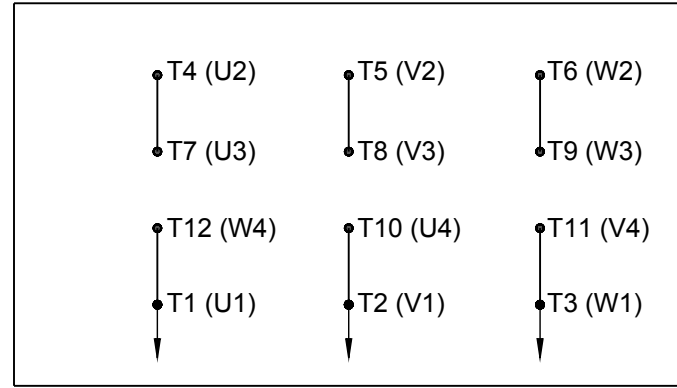
		TOLERANCES UNLESS SPECIFIED		marathon electric		DRAWN CAV 10-18-2000	
		DEC	INCHES			CHK ML 10-18-2000	APPR BW 10-18-2000
4	UPDATED TO NEW FRAME DESIGN MU106205	MSG 08-22-2012	MSG x	±.1			
3	REDRAWN IN AUTOCAD - NO CHANGE	TAT 06-29-2004	ML xx	±.03	TITLE OUTLINE - TEFC - TGN		SCALE 1:4
2	ADDED NOTE 3 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
	THIRD ANGLE PROJECTION				PREV		SIZE DRAWING NO
					NETWORK FILE NAME	SS311057	<b>B</b> <b>SS311057</b>
							REV 4

# HIGH VOLTAGE

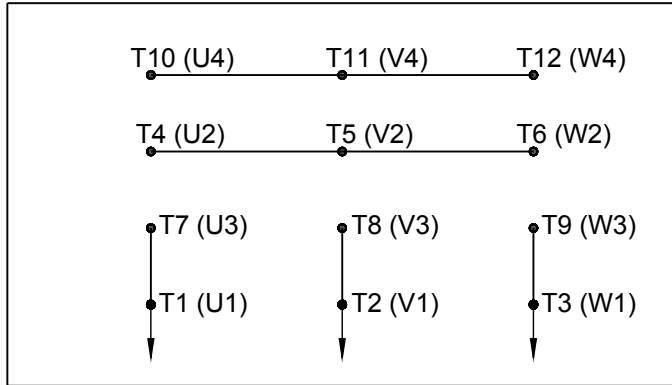
WYE START



DELTA RUN

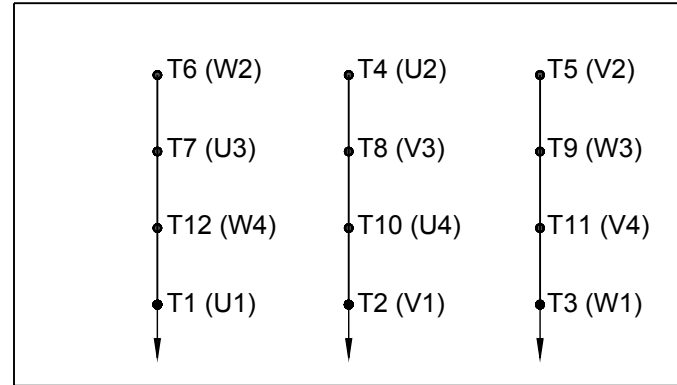


WYE START



# LOW VOLTAGE

DELTA RUN

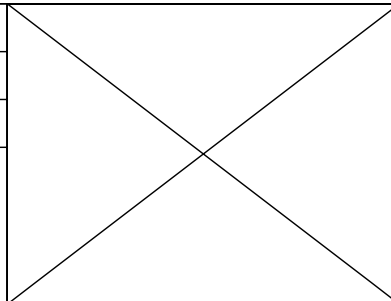




4/2 CKTY  $\triangle$

DRAWING REVISION D	REVISION BY JWO	DATE 01-26-2016
ECO ECO-0092547	APPROVED BY TB	DATE 01-26-2016
ECO DESCRIPTION		

**ADDED IEC MARKINGS**

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DRAWN BY BLR	 <b>Regal Beloit America, Inc.</b>
DATE 03-09-1998	
APPROVED BY GK	DESCRIPTION <b>CONN DIAGRAM-EXTERNAL</b> 12 LEAD - DUAL VOLT. - WYE START - DELTA RUN
DATE 03-23-1998	
REFERENCE	MATERIAL
THIRD ANGLE PROJECTION 	SIZE <b>A</b>
	DRAWING NUMBER <b>EE7358</b>
	PROCESS/FINISH
	SHEET 1 OF 1



P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER P.O. #:   
 ORDER #: A-EE7358   
 REFERENCE MODEL #: 286TTNVA14050   
 CONN. DIAGRAM: B-SS311067-1425   
 CAT #: N/A   
 OUTLINE: K2864292   
 CUSTOMER PART #:   
 WINDING: NONE 2   
 MOUNTING: F1/F2 CAPABLE   
 SPEED:   
 TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	1800	1768	286T	TEFC	TEN	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	72/36&72/36	WS(LV ONLV) & YDRU	CONT	F	1.15	40	3300
	F.L. EFF	92.4	3/4 LD EFF	92.4	1/2 LD EFF	91.7	GTD EFF	ELECT. TYPE	
	F.L. PF	85.0	3/4 LD PF	82.0	1/2 LD PF	74.0	91.0	SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
89.0 LB-FT	214	175 LB-FT	220 LB-FT	247%
@ 3 FT.	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME
68 DBA	77 DBA	4.6 LB-FT <sup>2</sup>	0 LB-FT <sup>2</sup>	0 SEC.
				START/SHOUR
				MOTOR WGT
				540 LB.

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	RED (ENAMEL)
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE BALL 6311	ODE BALL 6210	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA
R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.147	0.137	0.757	1.097	22.468	0.150	ODE

* N		INVERTER TORQUE: NONE	
O	INV. HP SPEED RANGE: NONE		
T	ENCODER: NONE		
E	BRAKE: NONE		
S	FT-LB: NA		
	VOLTAGE: NONE		
	NONE PPR		

PREPARED BY: FAREEDA DUDEKULA  
 DATE: 9/17/2018  
 UL: V-INS, CONST UL REC  
 HZ:

Data Sheet

286TTFNA14050



**Submital**  
Data @ 460 V

Date: 9/17/2018

Customer: \_\_\_\_\_  
Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA

Motor Load Data

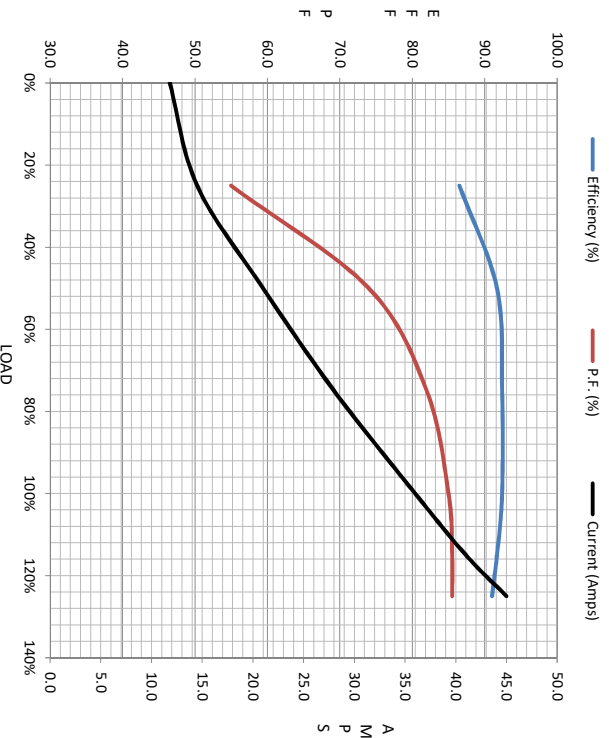
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	11.8	14.5	21.0	28.0	36.0	41.0	45.0	214
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	103	112	175
RPM	1800	1792	1785	1778	1768	1,762	1758	0
Efficiency (%)		86.5	91.7	92.4	92.4	91.7	91.0	
P.F. (%)		55.0	74.0	82.0	85.0	85.5	85.5	35.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1625	1768	1800
Current (Amps)	214	200	125	36.0	11.8
Torque (ft-lb)	175	160	220	89.0	0.00

Information Block

HP	30.0				
Sync. RPM	1800				
Frame	286182TTFCA080				
Enclosure	TEFC				
Construction	TFN				
Voltage	230/460#190/380 V				
Frequency	60 Hz				
Design	B				
LR Code letter	F				
Service Factor	1.15				
Temp Rise @ FL	75 °C				
Duty	CONT				
Ambient	40 °C				
Elevation	1,000 feet				
Motor/Shaft wk <sup>2</sup>	4.6 Lb-Ft <sup>2</sup>				
Ret Wdg	K2864292 NONE				
Sound Pressure @ 1M	68 dBA				
VFD Rating	NONE				
Outline Dwg	B-SS311057-1425				
Conn. Diag	A-EE7358				
Additional Specifications:					
0					
0					
	EQUIV CKT (OHMS / PHASE)				
	R1	R2	X1	X2	Xm
	0.1470	0.1370	0.7570	1.0970	22.4680



Speed - Torque Curve

