

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 326TTFS14046  
Catalog No: Y1621  
50,1800,326T,3/60/230/460  
Fire Pump



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.  
©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E

**REGAL**<sup>®</sup>

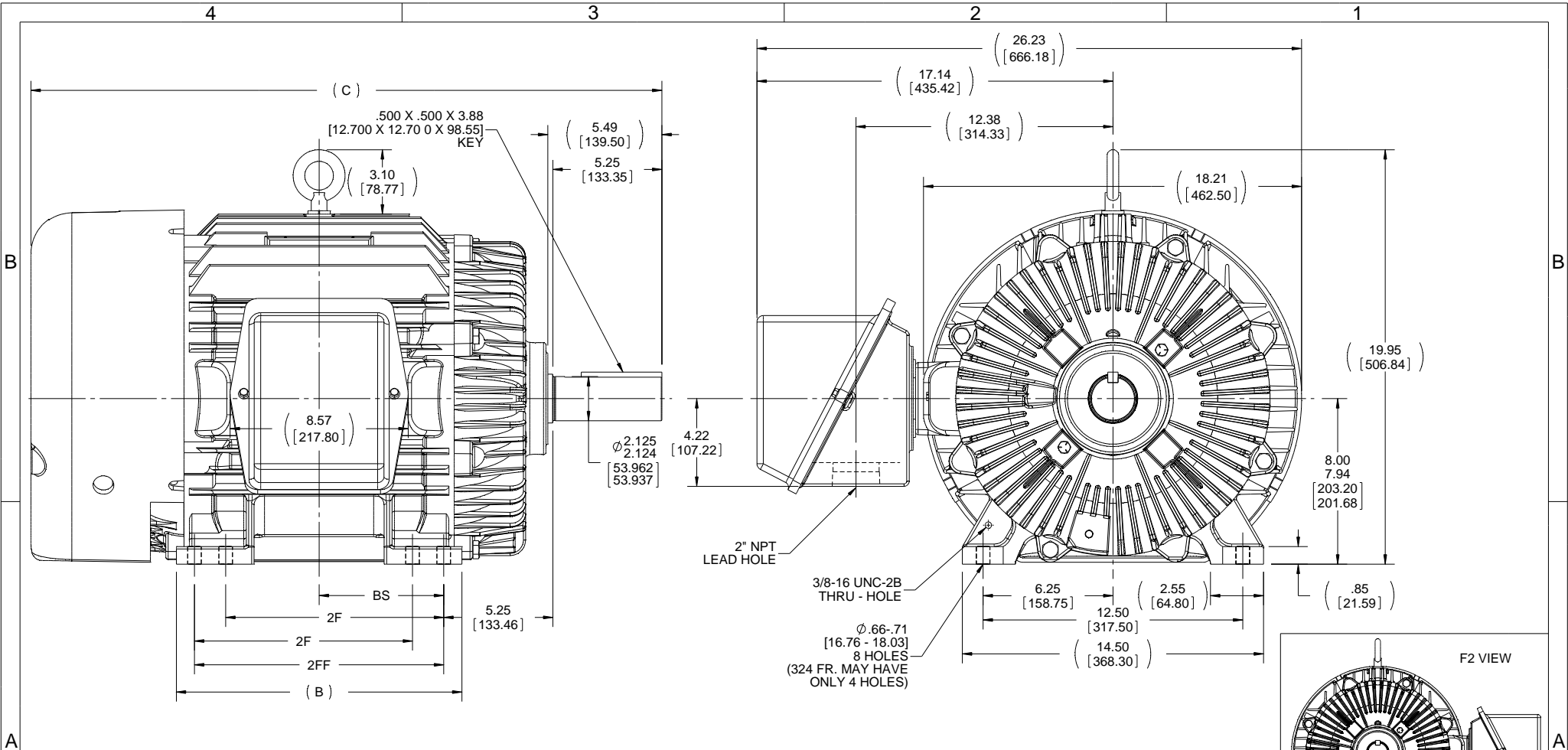


### Nameplate Specifications

Output HP	<b>50 Hp</b>	Output KW	<b>37.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>122.0/61.0 A</b>	Speed	<b>1778 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>93 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>F</b>	Frame	<b>326T</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6312</b>
Opp Drive End Bearing Size	<b>6311</b>	UL	<b>No</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>30.38 in</b>	Frame Length	<b>13.00 in</b>
Shaft Diameter	<b>2.125 in</b>	Shaft Extension	<b>5.49 in</b>
Assembly/Box Mounting	<b>F1/F2 Capable</b>		
Outline Drawing	<b>B-SS28703-1300</b>	Connection Diagram	<b>A-EE7358</b>



- NOTES:  
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.  
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°  
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
1150	324T	13.00 [330.20]	28.88 [733.55]	-	10.50 [266.70]	5.25 [133.35]
1300	324/6T	13.75 [349.25]	30.38 [771.65]	10.50 [266.70]	12.00 [304.80]	6.00 [152.40]
1450	326T	15.00 [381.00]	31.88 [809.75]	12.00 [304.80]	13.50 [342.90]	6.75 [171.45]

DRAWING REVISION V	REVISION BY W. JOERGER	DATE 03-28-2015
ECO-0074425	APPROVED BY E. HEIL	DATE 03-28-2015
ECO DESCRIPTION <b>CORRECTED FRAME/FOOT HOLE NUMBER NOTE</b> <small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.          PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF          REGAL BELOIT AMERICA, INC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY          INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,          BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED          TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT          AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL          BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN          RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>		

TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC	INCH	mm	ANGLE
.X	+0.1	[+2.5]	±7 30°
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381]			
CORNER FILLETS: .02 [0.51]			
MACHINED SURFACES: 200 INCH 5.1 mm SHOWN IN [BRACKETS]			

DRAWN BY RM	DATE 01-12-1993
APPROVED BY GK	DATE 01-12-1993
REFERENCE	

**REGAL**™ Regal Beloit America, Inc.

DESCRIPTION  
**OUTLINE**  
320T FR. - BB - TS - TEFC

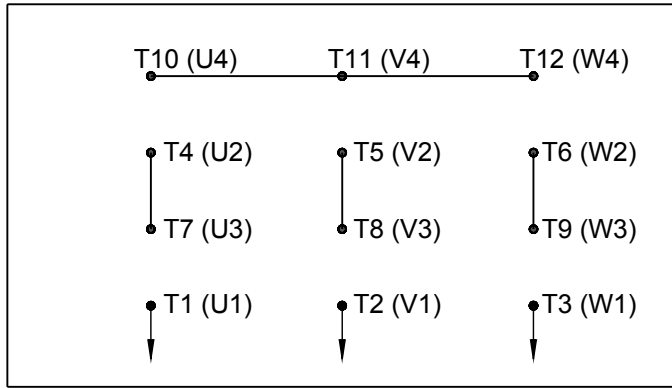
MATERIAL \_\_\_\_\_ PROCESS/FINISH \_\_\_\_\_

THIRD ANGLE PROJECTION

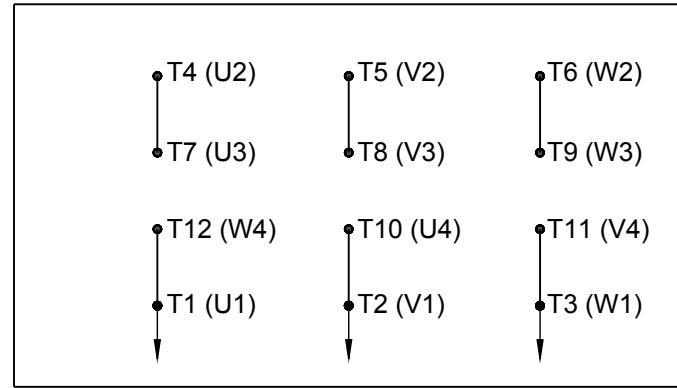
SIZE **B** DRAWING NUMBER **SS28703** SHEET 1 OF 1

# HIGH VOLTAGE

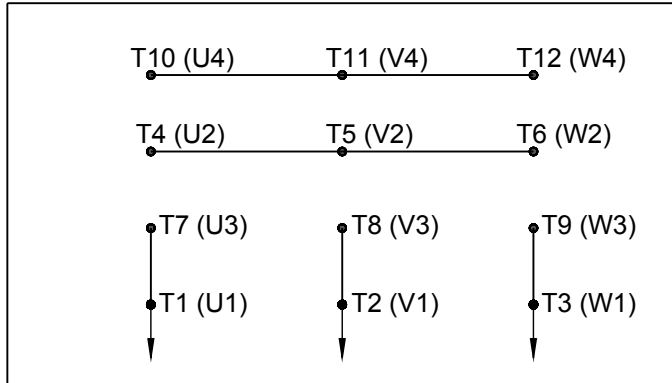
WYE START



DELTA RUN

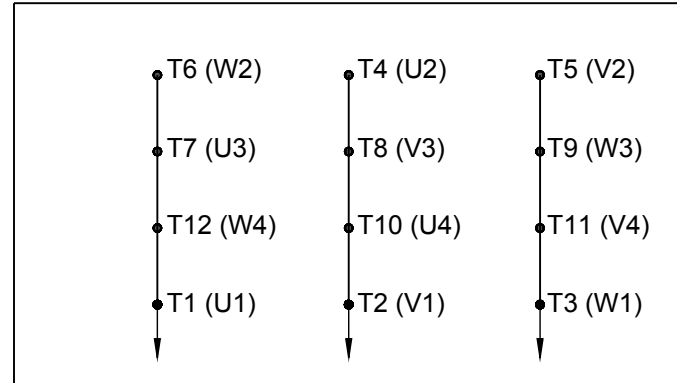


WYE START



# LOW VOLTAGE

DELTA RUN

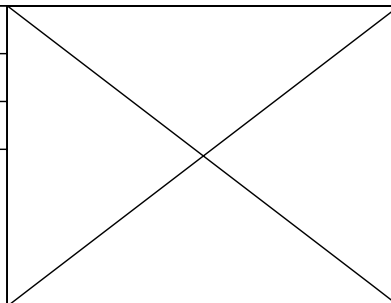




4/2 CKTY  $\triangle$

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**

COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.



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	MATERIAL	
REFERENCE	PROCESS/FINISH	
THIRD ANGLE PROJECTION 	SIZE <b>A</b>	DRAWING NUMBER <b>EE7358</b>
		SHEET 1 OF 1



Data Sheet

326TFS14046



Submital  
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)	23.5	27.5	37.0	48.0	61.0	70.0	76.0	345
Torque (ft-lb)	0.00	36.6	73.5	111	148	170	185	280
RPM	1800	1795	1788	1785	1778	1772	1770	0
Efficiency (%)		86.5	91.7	93.0	93.0	93.0	92.4	
P.F. (%)	7.0	49.0	70.0	79.0	82.0	83.0	83.5	32.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	900	1700	1778	1800
Current (Amps)	345	310	200	61.0	23.5
Torque (ft-lb)	260	225	340	148	0.00

Information Block

HP	50.0
Sync. RPM	1800
Frame	326
Enclosure	TEFC
Construction	TEN
Voltage	30/460#190/38 V
Frequency	60 Hz
Design	B
LR Code letter	F
Service Factor	1.15
Temp Rise @ FL	70 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wkt	9.0 Lb-Fe
Rel Wdg	K3264195 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	NONE
Outline Dwg	B-SS28703-1300
Conn. Diag	A-EE7358
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0770	0.0600	0.4820	0.6240	11.3120

