

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: 326TSTFPA14003

Catalog No: U834

Other Purpose Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,  
326TSC Frame, TEFC



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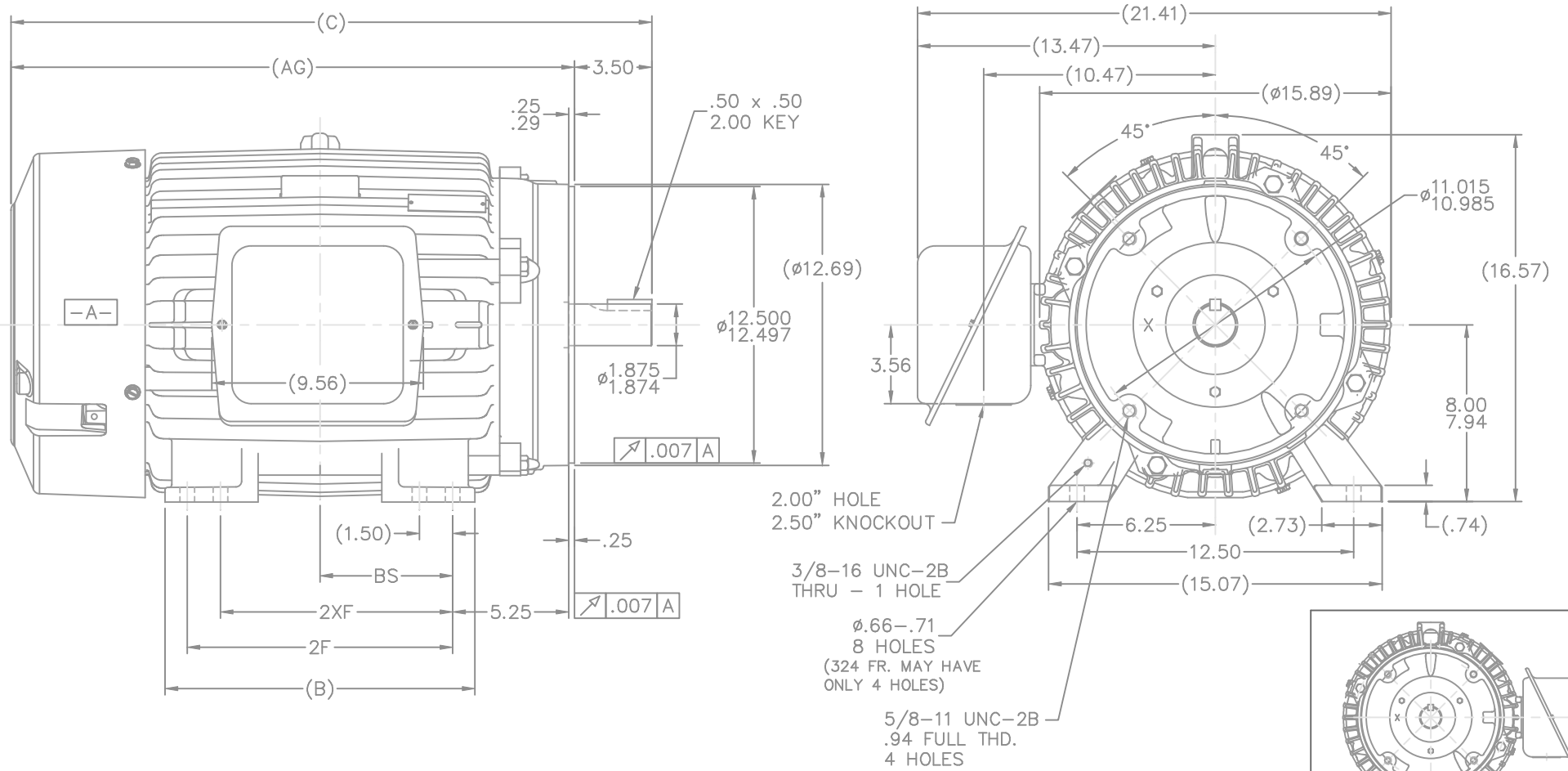
RegalRexnord

### Nameplate Specifications

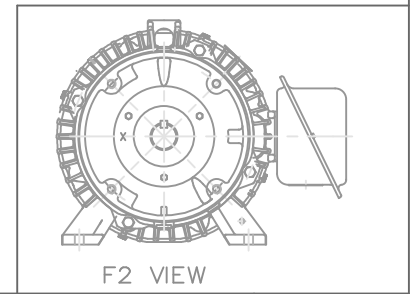
Phase	<b>3</b>	Output HP	<b>50 &amp; 40 Hp</b>
Output KW	<b>37.0 &amp; 30.0 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>3540 &amp; 2940 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>326TSC</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>92.4 &amp; 91.7 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>115/57.5 &amp; 112/56 A</b>	Power Factor	<b>88.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Drive End Bearing Size	<b>6312</b>	Opp Drive End Bearing Size	<b>6311</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.162 Ohms</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>TS</b>	Overall Length	<b>28.97 in</b>
Frame Length	<b>16.25 in</b>	Shaft Diameter	<b>1.880 in</b>
Shaft Extension	<b>3.5 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Outline Drawing	<b>B-SS311223-1625</b>	Connection Drawing	<b>A-EE7308K</b>



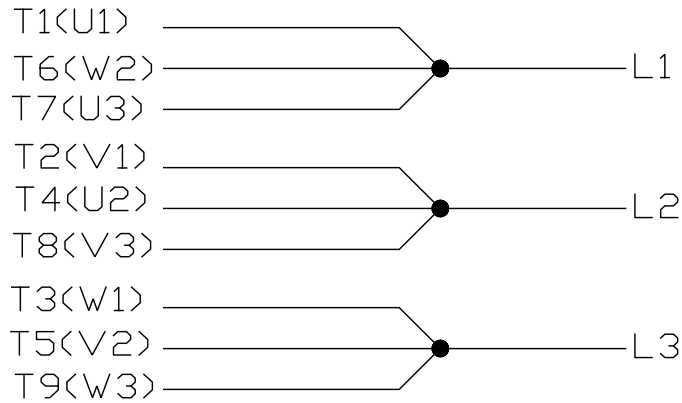
- NOTES:
1. CONDUIT BOX BE ROTATED IN 90° STEPS.
  2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
  3. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.



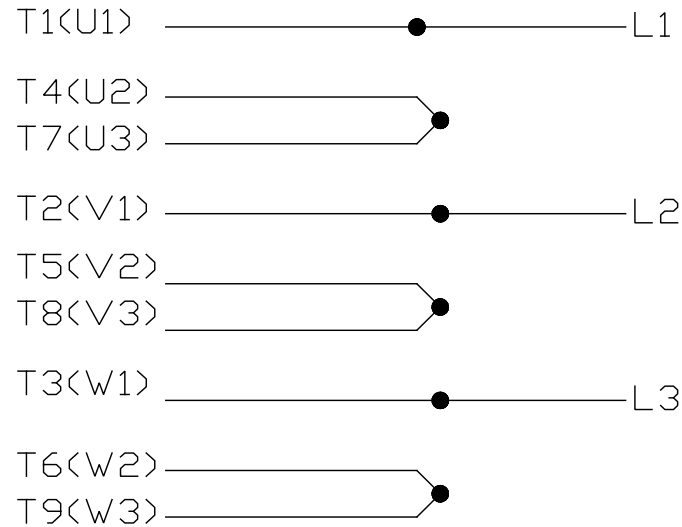
DASH	FRAME	B	C	2F	2XF	BS	AG
1475	324TSC	14.00	27.47	10.50		5.25	23.97
1625	326TSC	14.00	28.97	12.00	10.50	6.00	25.47

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN NJS 08-30-2001	
		DEC.	INCHES			CHK	ML 08-30-2001
		.X	±.1			APPD	TB 08-30-2001
3	REVISED TOL. WAS .004 NOW .007 ECN9954	RJW	02-20-2001	ML	.XX ±.03	SCALE	7=32
2	REDRAWN IN AUTOCAD	TAT	06-28-2004	ML	.XXX ±.005	REF	
1	NEW DRAWING	CN	34163	NJS	08-30-2001	FMF	
NO.	REVISION	BY & DATE		CHK	ANG	FINISH	PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP		CAD FILE	ss311223
				DIST	LB	SIZE	DRAWING NO. PAGE OF REV.
						B	SS311223 3


LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN PGK 06-04-1997						
NO.	REVISION	BY & DATE	CHK	ANG	±		UNIT	CHK	ML 06-05-1997				
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.		INCHES							
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	±.1			APPD GK 06-15-1997					
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	±.02		TITLE	SCALE					
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	±.005		CONNECTION DIAGRAM	REF					
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	±.0005		DELTA CON. - 3Ø - 9 LEADS	FMF					
							MAT'L.	PREV					
							FINISH						
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							DIST		A	EE7308K			E

**CERTIFICATION DATA SHEET**

**Model#:** 326TSTFPA14003 AA      **WINDING#:** K2862132 NONE 1  
**CONN. DIAGRAM:** A-EE7308K      **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** B-SS311223-1625

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&40	37&30	3600	3540&2940	326TSC	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	115/57.5&112/ 56	ACROSS THE LINE	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 92.4&91.7	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.5&88.5	3/4 LOAD PF: 86	1/2 LOAD PF: 78.5	91	SQ CAGE IND RUN	37 / 18.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74 LB-FT	720 / 360	115 LB-FT 155	205 LB-FT 277	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	2.9 LB-FT^2	28 LB-FT^2	20 SEC.	2	475 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6311						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

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DATE: 06/21/2017 06:33:12 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

326TSTFPA14003

Date: 12/13/2018  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

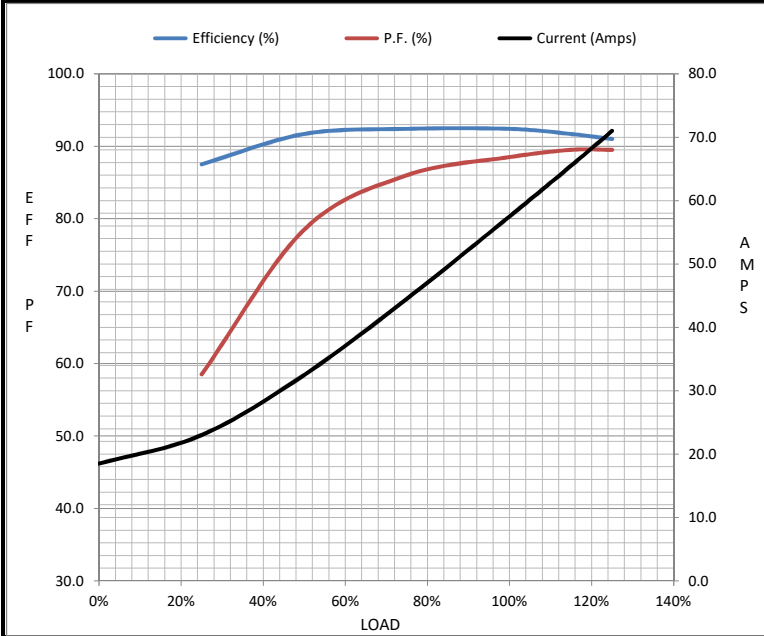
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	18.5	23.0	32.5	44.5	57.5	65.5	71.0	360
Torque (ft-lb)	0.00	18.5	37.0	55.5	74.0	85.5	93.0	115
RPM	3600	3585	3570	3555	3540	3530	3520	0
Efficiency (%)		87.5	91.7	92.4	92.4	91.7	91.0	
P.F. (%)	8.0	58.5	78.5	86.0	88.5	89.5	89.5	35.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1500	3300	3540	3600
Current (Amps)	360	325	225	57.5	18.5
Torque (ft-lb)	115	100	205	74.0	0.00

Information Block

HP	50.0			
Sync. RPM	3600			
Frame	326			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	2.90 Lb-Ft <sup>2</sup>			
Ref Wdg	K2862132 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS311223-1625			
Conn. Diag	A-EE7308K			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1130	0.0740	0.4540	0.3290	12.9110



Speed -Torque Curve

