

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326TTFS6576

Catalog No: E641

XRI®-SD Severe Duty Motor, 30 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 326T Frame, TEFC



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RegalRexnord

Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	460 V
Current	38.5 A	Speed	1182 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	326T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.21 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	30.38 in
Frame Length	13.00 in	Shaft Diameter	2.125 in
Shaft Extension	5.49 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 20:1/VARIABLE 20:1		
Connection Drawing	A-EE7300	Outline Drawing	A-SS28703-1300



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		TOLERANCES UNLESS OTHERWISE SPECIFIED:				DRAWN BY RM		 Regal Beloit America, Inc.					
ECO ECO-0074425		APPROVED BY E. HEIL		DATE 03-28-2015		<u>DEC.</u> .X .XX XXX .XXXX <u>INCH.</u> ±0.1 ±0.03 ±0.005 ±0.0005 <u>mm</u> [±2.5] [±0.76] [±0.127] [±0.0127] <u>ANGLE</u> ±7° 30"				DATE 01-12-1993							
ECO DESCRIPTION CORRECTED FRAME/FOOT HOLE NUMBER NOTE						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.				APPROVED BY GK		DESCRIPTION					
						REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [0.51] MACHINED SURFACES: 200				DATE 01-12-1993		REFERENCE		MATERIAL		PROCESS/FINISH	
						INCH mm SHOWN IN [BRACKETS]				THIRD ANGLE PROJECTION				SIZE B	DRAWING NUMBER SS28703		

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

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

IF MOTOR HAS 9 LEADS

T1(U1) T1(U1) T1(U1) → L1

T2(V1) T2(V1) T2(V1) → L2

T3(W1) T3(W1) T3(W1) → L3

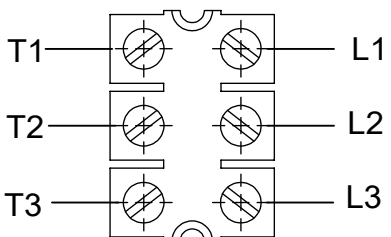
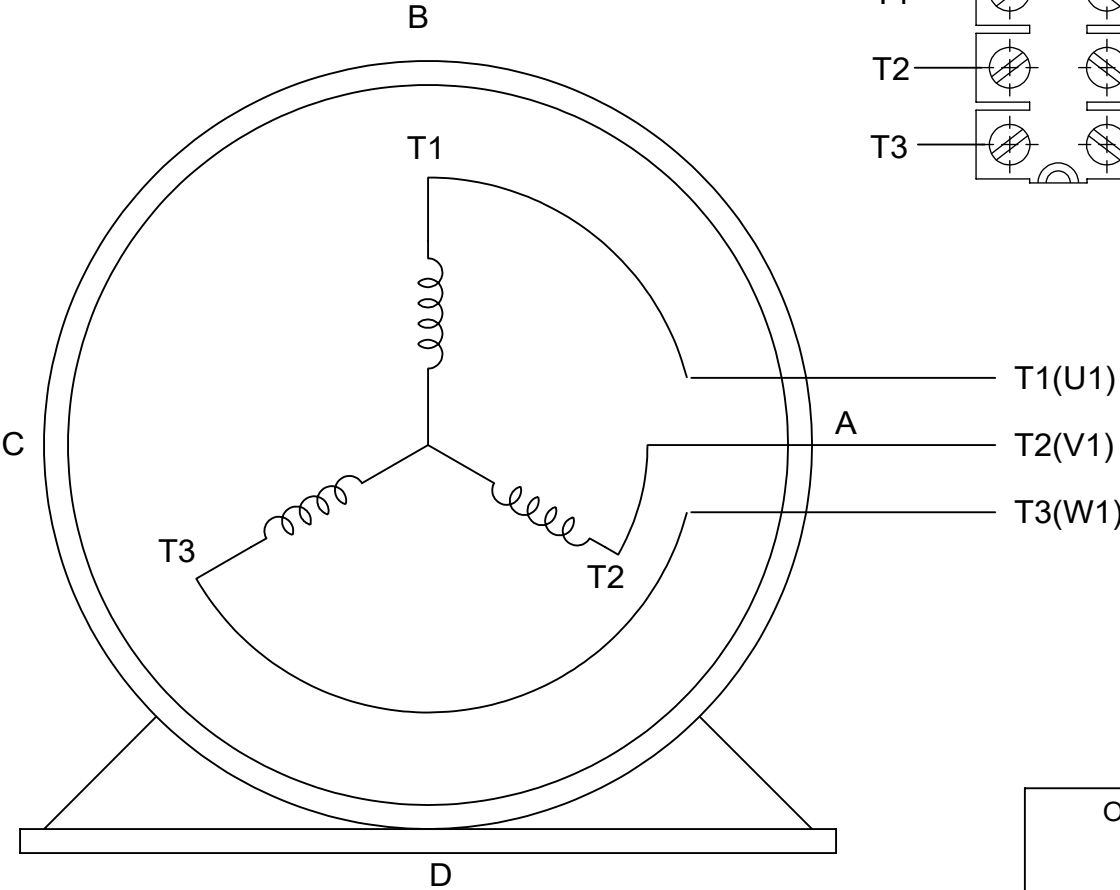
IF MOTOR HAS 6 LEADS

T1(U1) T1(U1) → L1

T2(V1) T2(V1) → L2

T3(W1) T3(W1) → L3

A-9806 DECAL



VIEW OF TERMINAL END

OPTIONAL CORD CONNECTION	
L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION AC	REVISION BY BS	REV DATE/© DATE 26/07/2022	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY DA	Regal Rexnord Regal Beloit America, Inc.			
REQUEST NUMBER CR-0010402	APPROVED BY SN	DATE 26/07/2022		DATE 03-26-1993				
REQUEST NUMBER DESCRIPTION DRAWING UPDATED				APPROVED BY TB	DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR			
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				REFERENCE	MATERIAL		PROCESS/FINISH	
				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7300	

CERTIFICATION DATA SHEET

Model#: 326TTFS6576 FP
 CONN. DIAGRAM: A-EE7300
 OUTLINE: A-SS28703-1300

WINDING#: 3266102 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30	22.4	1200	1182	326T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	38.5	LINE OR INVERTER	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 79	3/4 LOAD PF: 75	1/2 LOAD PF: 66	92.4	SQ CAGE INV RATED	15

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
134 LB-FT	217	200 LB-FT 149	375 LB-FT 280	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
58 dBA	68 dBA	9.4 LB-FT^2	500 LB-FT^2	20 SEC.	2	725 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2 T2B	FALSE	NONE	BLUE (EPOXY)

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

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

* N O T E S *	INVERTER TORQUE: CONSTANT 2:1					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE NONE					
	NONE NONE PPR					
	BRAKE: NONE NONE					
	NONE P/N NONE					
	NONE NONE					
	NONE FT-LB		NONE V		NONE Hz	

DATE: 06/21/2017 07:20:12 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



326TFS6576

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	15.0	17.5	23.0	30.0	38.5	43.5	47.5	217	
Torque (ft-lb)	0.00	33.0	66.0	100	134	154	168	200	
RPM	1200	1195	1190	1185	1182	1,178	1175	0	
Efficiency (%)		88.5	92.4	93.0	93.0	92.4	91.7		
P.F. (%)	5.0	46.0	66.0	75.0	79.0	80.0	80.5	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	600	1100	1182	1200	HP	30.0			
Current (Amps)	217	200	140	38.5	15.0	Sync. RPM	1200			
Torque (ft-lb)	200	175	375	134	0.00	Frame	326			
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD						Enclosure	TEFC			
						Construction	TFN			
						Voltage	460 V			
						Frequency	60 Hz			
						Design	B			
						LR Code letter	G			
						Service Factor	1.15			
						Temp Rise @ FL	60 ° C			
						Duty	CONT			
						Ambient	40 ° C			
						Elevation	1,000 feet			
						Rotor/Shaft wk ²	9.4 Lb-Ft ²			
						Ref Wdg	3266102 NONE			
						Sound Pressure @ 1M	58 dBA			
						VFD Rating	CONSTANT 2:1			
						Outline Dwg	A-SS28703-1300			
						Conn. Diag	A-EE7300			
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.1470		0.1210		0.9130		1.1540		16.2710		

Speed -Torque Curve

