

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326TTFS16844

Catalog No: E625-P

50 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 326T Frame, TEFC
Severe Duty Motors



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RegalRexnord

Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	460 V
Current	60.0 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	326T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

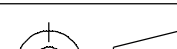
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.112 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 10:1/VARIABLE 20:1		
Connection Drawing	EE7300	Outline Drawing	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.

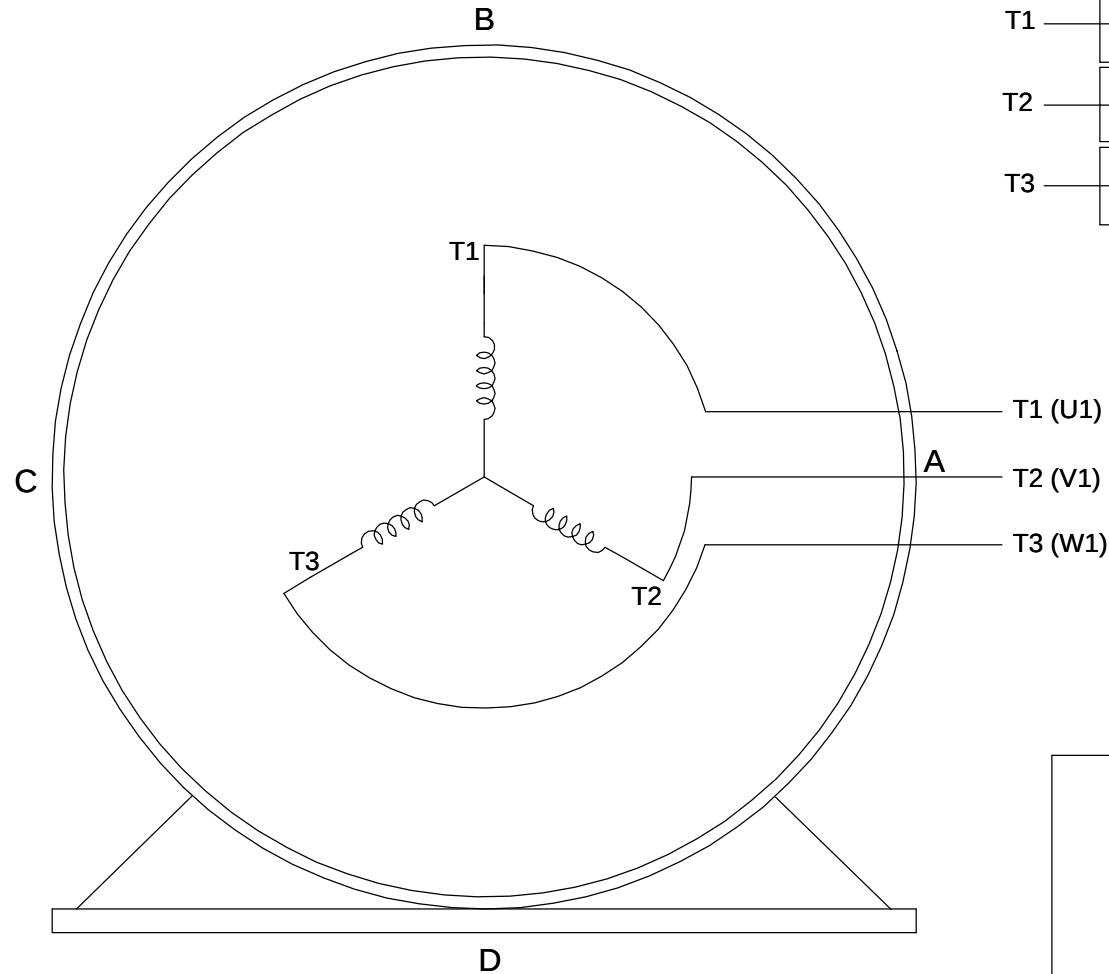
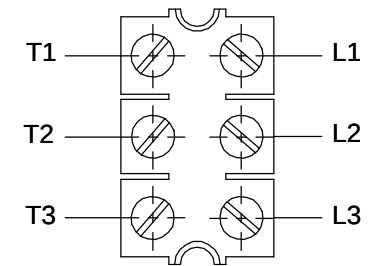
DASH	FRAME	B	C	2F	2FF	BS
1150	324T	13.00 [330.20]	28.88 [733.55]	-	10.50 [266.70]	5.25 [133.35]
1300	324/6T	13.75 [349.25]	30.38 [771.65]	10.50 [266.70]	12.00 [304.80]	6.00 [152.40]
1450	326T	15.00 [381.00]	31.88 [809.75]	12.00 [304.80]	13.50 [342.90]	6.75 [171.45]

DRAWING REVISION V		REVISION BY W. JOERGER		DATE 03-28-2015		TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. .X ±0.1 [±2.5] INCH .XX ±0.03 [±0.76] mm XXX ±0.005 [±0.127] ANGLE .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] CORNER FILLETS: .02 [.51] MACHINED SURFACES: 200 INCH mm 5.1 mm mm SHOWN IN [BRACKETS]				DRAWN BY RM		REGAL Regal Beloit America, Inc.			
ECO ECO-0074425		APPROVED BY E. HEIL		DATE 03-28-2015						DATE 01-12-1993		DESCRIPTION OUTLINE 320T FR. - BB - TS - TEFC			
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		REFERENCE							
						DATE 01-12-1993						MATERIAL		PROCESS/FINISH	
						THIRD ANGLE PROJECTION				SIZE B		DRAWING NUMBER SS28703		SHEET 1 OF 1	

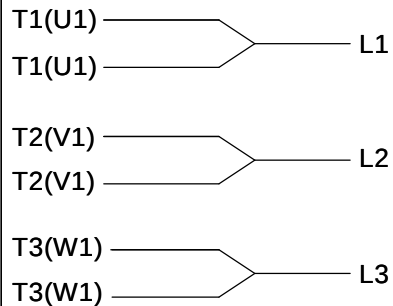
THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

TERMINAL BLOCK WHEN SPECIFIED



IF MOTOR HAS 6 LEADS



A-9806 DECAL

OPTIONAL CORD CONNECTION



VIEW OF TERMINAL END

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



Regal Beloit America, Inc.

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL PROCESS/FINISH

SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1
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CERTIFICATION DATA SHEET

Model#: 326TTFS16844 AN
 CONN. DIAGRAM: EE7300
 OUTLINE: SS28703-1300

WINDING#: K3264168 NONE 2
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50	37	1800	1775	326T	TEFC	F	B

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

FULL LOAD EFF: 94.5	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82	3/4 LOAD PF: 79	1/2 LOAD PF: 71	94.1	SQ CAGE INV RATED	24

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
148 LB-FT	335	250 LB-FT 169	340 LB-FT 230	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	9.7 LB-FT^2	325 LB-FT^2	25 SEC.	2	775 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	NONE	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: 1.5 X BASE SPEED		
	ENCODER: NONE		
	NONE NONE		
	NONE NONE PPR		
	BRAKE: NONE NONE		
	NONE P/N NONE		
	NONE NONE		
	- FT-LB	NONE V	NONE Hz

DATE: 06/21/2017 07:16:39 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



326TTFS16844

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	24.0	27.5	36.0	47.0	60.0	68.5	75.0	335	
Torque (ft-lb)	0.00	36.6	73.5	111	148	170	185	250	
RPM	1800	1795	1788	1782	1775	1,772	1770	0	
Efficiency (%)		91.7	94.5	94.5	94.5	94.1	93.6		
P.F. (%)	4.0	51.0	71.0	79.0	82.0	82.5	83.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	900	1675	1775	1800	HP	50.0
Current (Amps)	335	300	190	60.0	24.0	Sync. RPM	1800
Torque (ft-lb)	250	230	340	148	0.00	Frame	326
Efficiency (%) P.F. (%) Current (Amps) LOAD						Enclosure	TEFC
						Construction	TFN
						Voltage	460 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
						Rotor/Shaft wk ²	9.7 Lb-Ft ²
						Ref Wdg	K3264168 NONE
						Sound Pressure @ 1M	65 dBA
						VFD Rating	CONSTANT 2:1
						Outline Dwg	SS28703-1300
						Conn. Diag	EE7300
Additional Specifications:							
0							
0							
EQUIV CKT (OHMS / PHASE)							
R1		R2		X1		X2	Xm
0.0680		0.0620		0.4830		0.6480	11.0680

Speed -Torque Curve

