

PRODUCT INFORMATION PACKET

Model No: 326TSHFS9001

Catalog No: W577

50 HP, Severe Duty Motors, 3 phase, 3600 RPM, 460 V, 326TS Frame, TEFC
Severe Duty Motors



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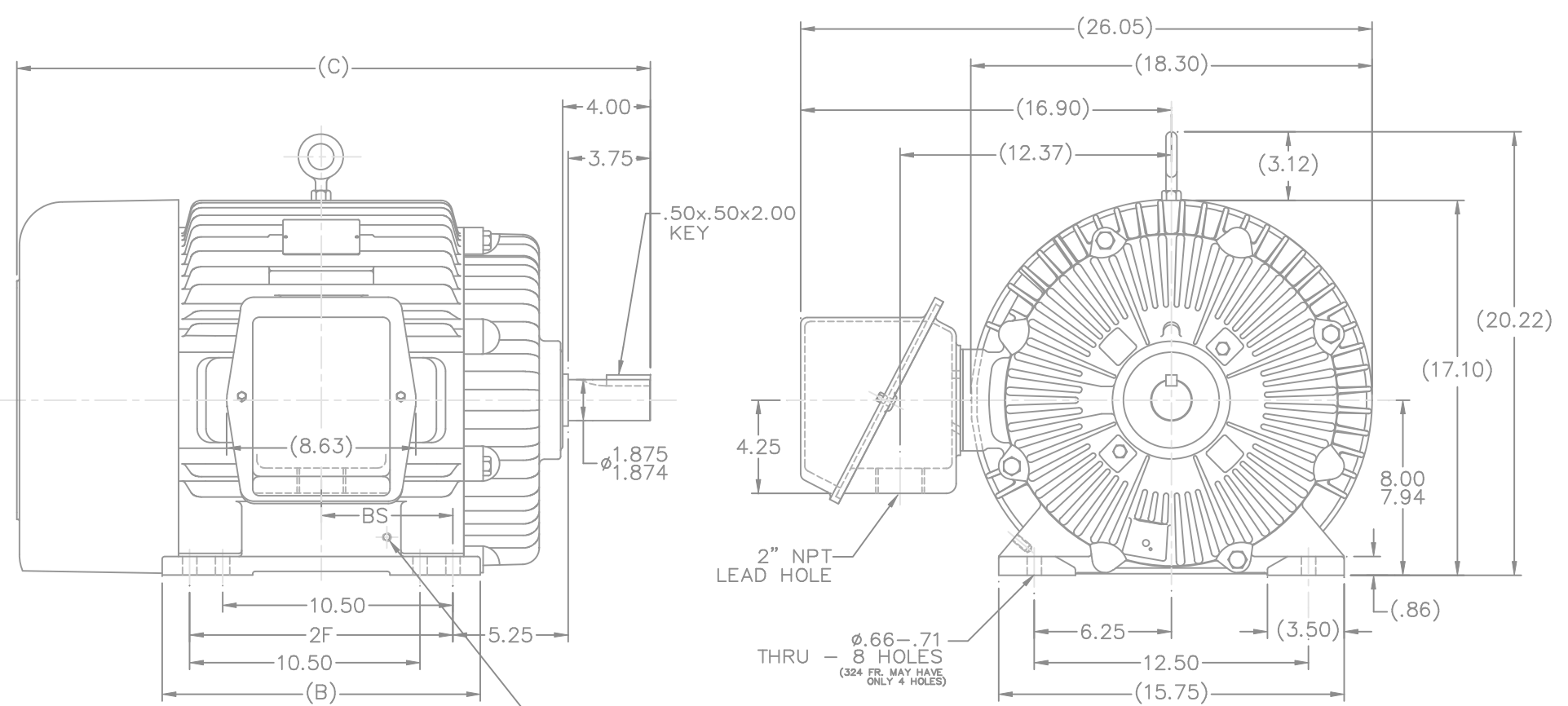
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	460 V
Current	56.5 A	Speed	3552 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	89
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	326TS	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	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.116 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	28.87 in
Frame Length	13.00 in	Shaft Diameter	1.875 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7300U	Outline Drawing	B-SS301080-1300

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- NOTES:
 1. BOX CAN BE ROTATED IN 90° STEPS.
 2. 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.

3/8-16 UNC-2B
 (SEE B.O.M. FRAME FOR REQUIREMENT)

DASH	FR.	C	B	BS	2F
1150	324-TS	27.37	13.00	5.25	10.50
1300	324/6TS	28.87	14.50	6.00	12.00

				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN CAV 06-19-2002				
				DEC.	INCHES		CHK ML 06-20-2002	APPD DD 06-21-2002			
4	ADDED NOTE TO 3/8-16UNC-2B	RJW 03-28-2008	ML	.X	±.1	TITLE OUTLINE 320TS FRAME -TEFC	SCALE 5=23				
3	REVISED DRAWING	RJW 04-05-2007		.XX	±.03		REF				
2	REDRAWN IN AUTOCAD	RWR 09-09-2004		.XXX	±.005		FMF				
1	NEW DRAWING MU42162	CAV 06-21-2002	ML	.XXX	±.0005		PREV				
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	RFP	SIZE	DRAWING NO.	PAGE 1 OF 1	REV.
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							CAD FILE	ss301080	B	SS301080	4
							DIST	LB			

IF MOTOR HAS 9 LEADS

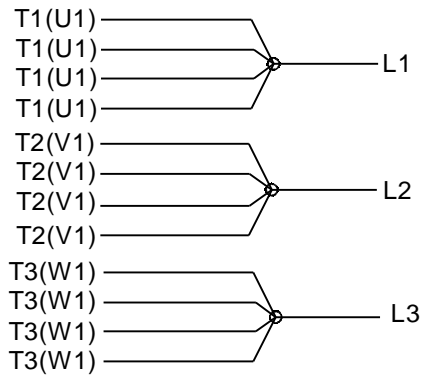


IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DRAWN BY DRS	Regal Beloit America, Inc.																			
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><u>DEC.</u></td> <td style="text-align: center;"><u>INCH</u></td> <td style="text-align: center;"><u>mm</u></td> <td style="text-align: center;"><u>ANGLE</u></td> </tr> <tr> <td style="text-align: center;">.X</td> <td style="text-align: center;">±0.1</td> <td style="text-align: center;">[±2.5]</td> <td style="text-align: center;">±7° 30"</td> </tr> <tr> <td style="text-align: center;">.XX</td> <td style="text-align: center;">±0.02</td> <td style="text-align: center;">[±0.51]</td> <td></td> </tr> <tr> <td style="text-align: center;">.XXX</td> <td style="text-align: center;">±0.005</td> <td style="text-align: center;">[±0.127]</td> <td></td> </tr> <tr> <td style="text-align: center;">.XXXX</td> <td style="text-align: center;">±0.0005</td> <td style="text-align: center;">[±0.0127]</td> <td></td> </tr> </table>	<u>DEC.</u>			<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>	.X	±0.1	[±2.5]	±7° 30"	.XX	±0.02	[±0.51]		.XXX	±0.005	[±0.127]		.XXXX	±0.0005	[±0.0127]
<u>DEC.</u>	<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>																					
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.XXXX	±0.0005	[±0.0127]																						
ECO DESCRIPTION UPDATED TO SOLIDWORKS			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$ mm SHOWN IN [BRACKETS]	APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE																			
				DATE 09-30-1996			MATERIAL	PROCESS/FINISH																
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Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



326TSHFS9001

Submittal

Data @ 460 V

Motor Load Data

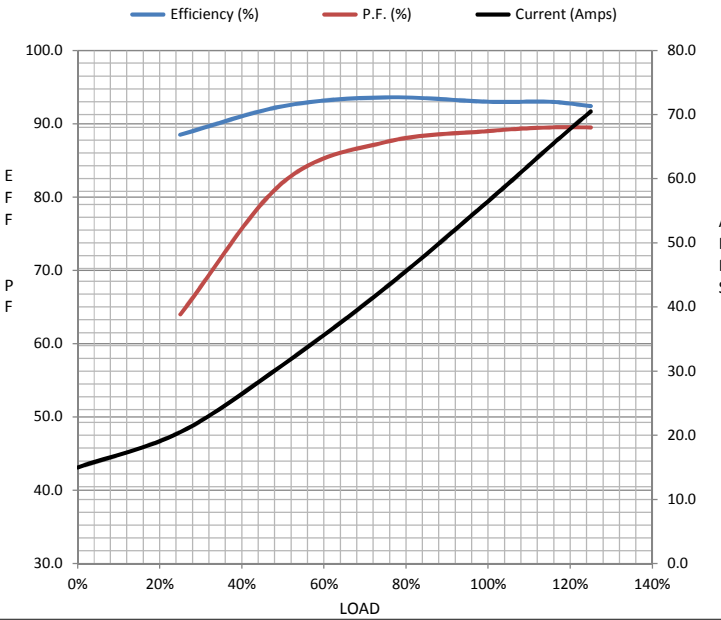
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	15.0	20.5	31.0	43.0	56.5	65.0	70.5	362
Torque (ft-lb)	0.00	18.0	37.0	55.0	74.0	85.0	93.0	118
RPM	3600	3590	3577	3565	3552	3,543	3535	0
Efficiency (%)		88.5	92.4	93.6	93.0	93.0	92.4	
P.F. (%)	8.0	64.0	82.0	87.5	89.0	89.5	89.5	29.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3400	3552	3600
Current (Amps)	362	330	215	56.5	15.0
Torque (ft-lb)	118	100	190	74.0	0.00

Information Block

HP	50.0
Sync. RPM	3600
Frame	326
Enclosure	TEFC
Construction	TFN
Voltage	460 V
Frequency	60 Hz
Design	A
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	65 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wk ²	5.8 Lb-Ft ²
Ref Wdg	3262102 NONE
Sound Pressure @ 1M	78 dBA
VFD Rating	CONSTANT 2:1
Outline Dwg	B-SS301080-1300
Conn. Diag	A-EE7300U



Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0870	0.0650	0.5020	0.4540	17.8040

Speed -Torque Curve

