

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326TSHFS9036
Catalog No: W579
50 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 326TS Frame, TEFC
Severe Duty Motors



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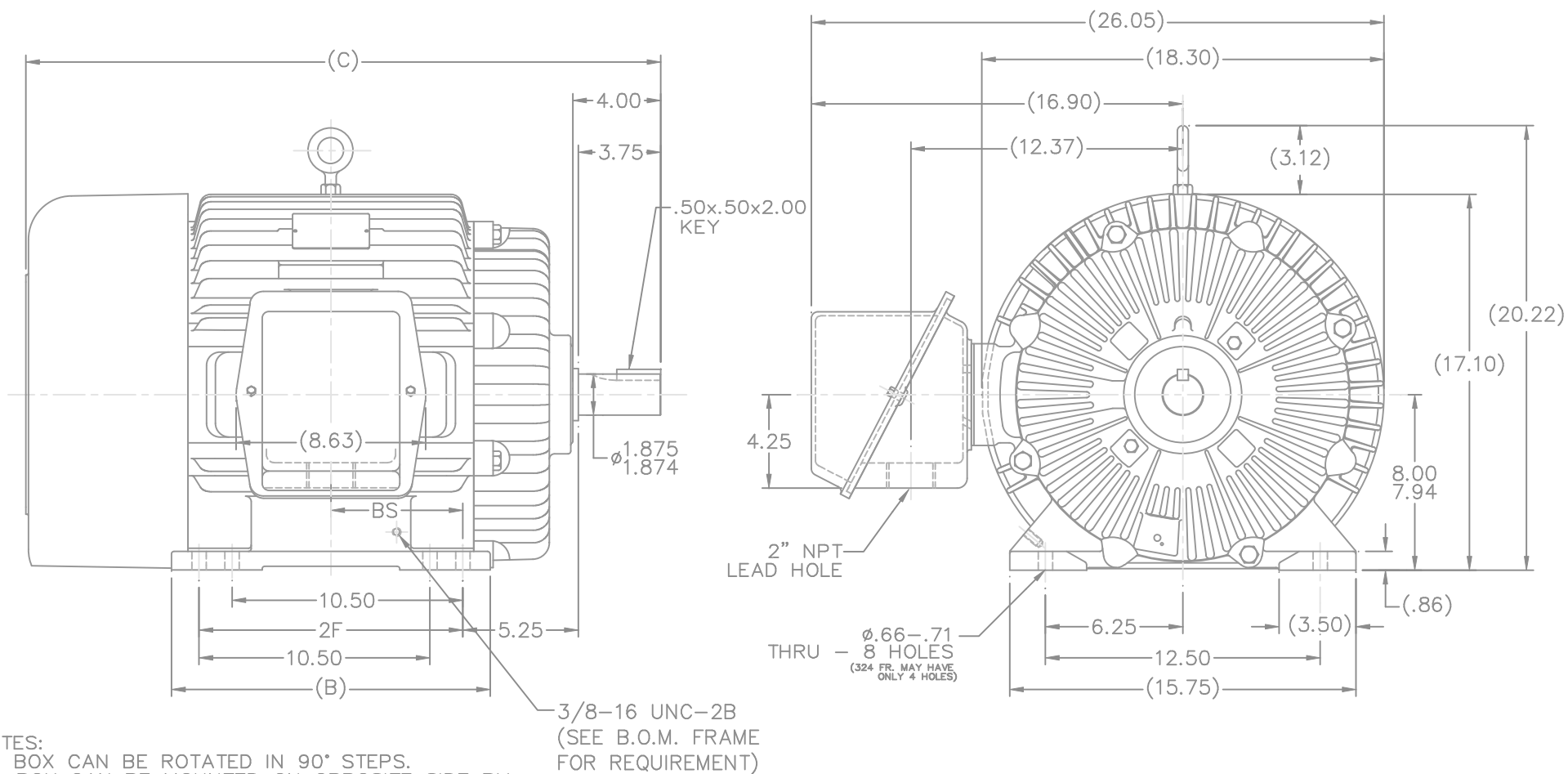
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	460 V
Current	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	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	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	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
Outline Drawing	B-SS301080-1300	Connection Drawing	A-EE7300

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NOTES:

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

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

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#: 326TSHFS9036 DD
CONN. DIAGRAM: A-EE7300
OUTLINE: B-SS301080-1300

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	326TS	TEFC	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	60	LINE OR INVERTER	CONTINUOUS	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	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	TS	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

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

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DATE: 06/21/2017 05:57:30 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 19-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



326TSHFS9036

Submittal

Data @ 460 V

Motor Load Data

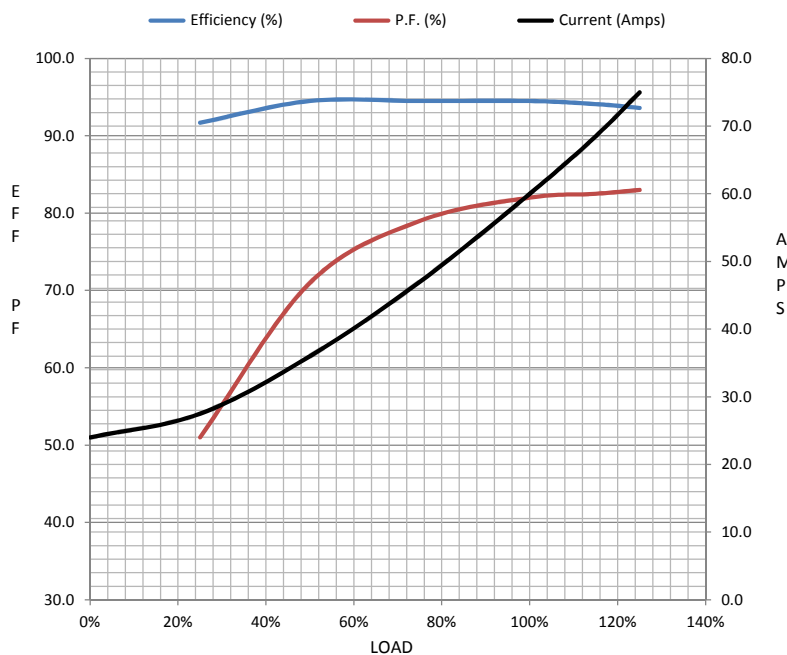
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	24.0	27.5	36.0	47.0	60.0	68.5	75.0	335	
Torque (ft-lb)	0.00	36.6	73.5	111	148	170	185	250	
RPM	1800	1795	1788	1782	1775	1,772	1770	0	
Efficiency (%)		91.7	94.5	94.5	94.5	94.1	93.6		
P.F. (%)	4.0	51.0	71.0	79.0	82.0	82.5	83.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1775	1800
Current (Amps)	335	300	190	60.0	24.0
Torque (ft-lb)	250	230	340	148	0.00

Information Block

HP	50.0			
Sync. RPM	1800			
Frame	326			
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	B-SS301080-1300			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0680	0.0620	0.4830	0.6480	11.0680



Speed -Torque Curve

