

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 326TTFS16073
Catalog No: E210-P
50,1800,TEFC,326T,3/60/230/460
Totally Enclosed Fan Cooled (TEFC)



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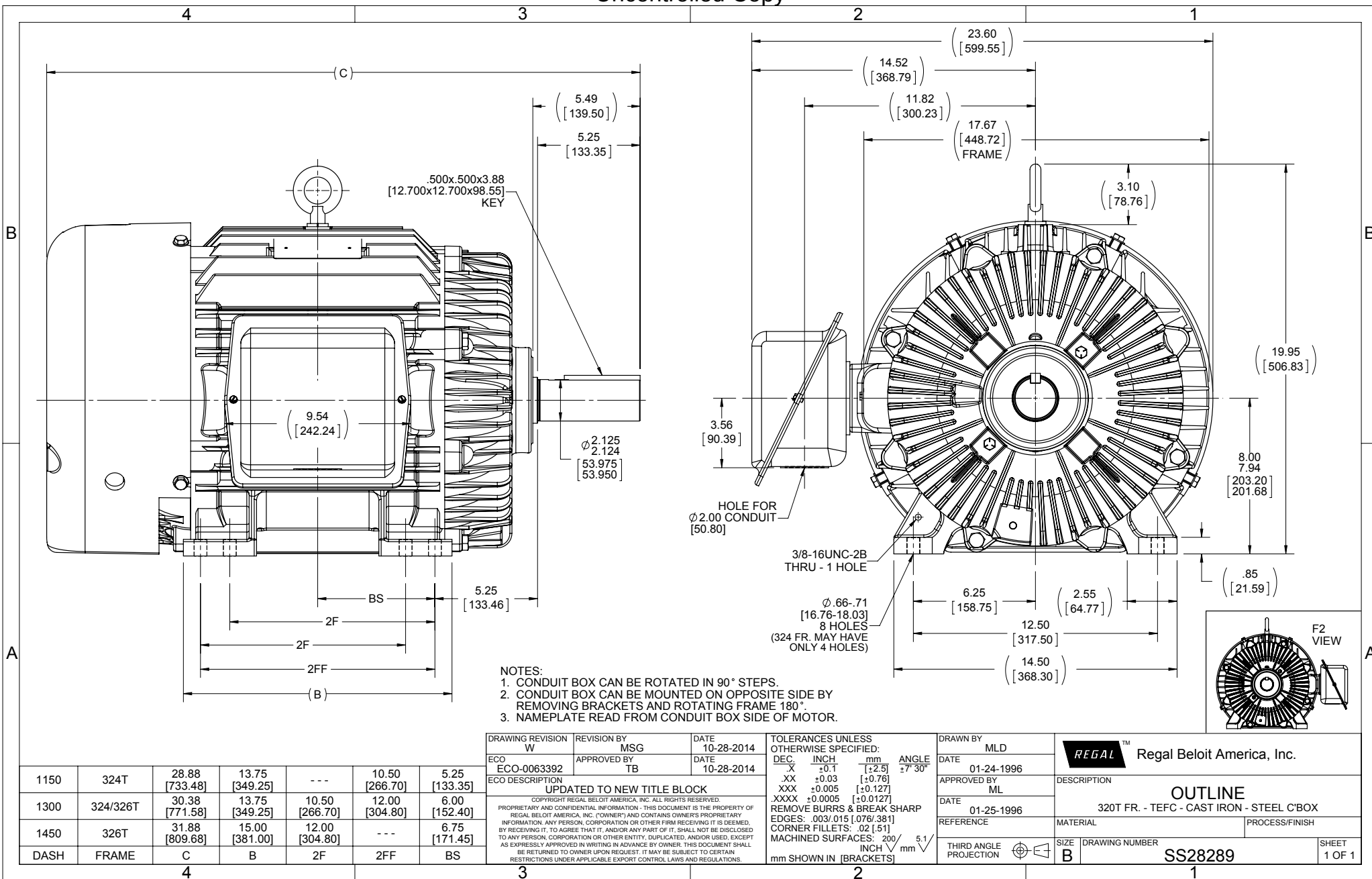


Nameplate Specifications

Output HP	50 Hp	Output KW	37 kW
Frequency	60 Hz	Voltage	230/460 V
Current	120/60 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Duty	CONTINUOUS
Insulation Class	F	Design Code	B
KVA Code	F	Frame	326T
Enclosure	TEFC	Overload Protector	NOT
Ambient Temperature	40 °C	Drive End Bearing Size	6312
Opp Drive End Bearing Size	6311	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

Electrical Type	SQ CAGE INV RATED	Starting Method	LINE OR INVERTER
Poles	4	Rotation	REV
Mounting	RIGID	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	CAST IRON	Shaft Type	T
Overall Length	31.88 in	Frame Length	14.5 in
Shaft Diameter	2.13 in	Shaft Extension	5.49 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS28289-1450	Connection Diagram	A-EE7308





NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		DRAWN RM	11/20/1990
					DEC.	INCHES		
5	CHG TO REGAL LOGO	SL 09/10/2015	AB				CHK	ML 11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD	SAS 04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		REF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FMF	
					±7'30"		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 ee7308		SIZE	DRAWING NO. PAGE OF REV.
				DIST WP			A	EE7308 5

CERTIFICATION DATA SHEET

Model#: 326TTFS16073 AN **WINDING#:** K3264168 NONE 1
CONN. DIAGRAM: A-EE7308 **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: SS28289-1450

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	230/460	120/60	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	48 / 24

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
148 LB-FT	670 / 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	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

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

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		

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DATE: 06/21/2017 07:14:20 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

326TFS16073

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



Submital

Data @ 460 V

Submitted by:

FAREEDA DUDEKULA

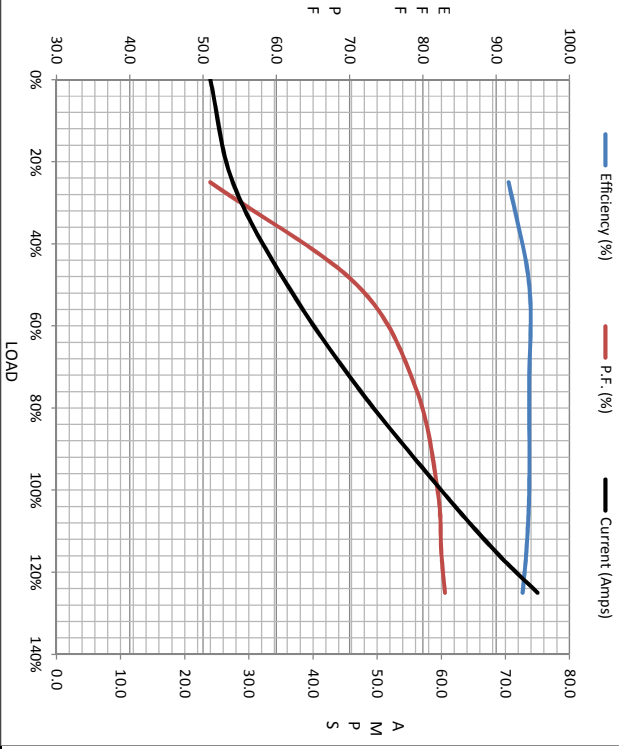
Motor Load Data

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



Enclosure	TEFC			
Construction	TFN			
Voltage	230/460 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 wkt	9.7 Lb-Fe			
Ref Wdg	K3264168 NONE			
Sound Pressure @ 1M	65 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	SS28289-1450			
Conn. Diag	A-EE7308			
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

