PRODUCT INFORMATION PACKET

Model No: 132STFC6503
Catalog No: R427A
7 1/2,3600,TEFC,132S,3/60/575
TEFC

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marathon® Motors

Nameplate Specifications

Output HP	**7.50 Hp**	Output KW	**5.6 kW**
Frequency	**60 Hz**	Voltage	**575 V**
Current	**7.0 A**	Speed	**3550 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**91 %**	Duty	**Continous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	Frame	**132S**
Enclosure	**Totally Enclosed Fan Cooled**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6208**
Opp Drive End Bearing Size	**6207**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**43**		

Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Wye Start Delta Run Or Inverter**
Poles	**2**	Rotation	**Reversible**
Mounting	**Rigid base**	Motor Orientation	**Horizontal**
Drive End Bearing	**Ball**	Opp Drive End Bearing	**Ball**
Frame Material	**Cast Iron**	Shaft Type	**IEC**
Overall Length	**18.26 in**	Shaft Diameter	**1.500 in**
Shaft Extension	**3.14 in**	Assembly/Box Mounting	**F3**
Outline Drawing	**SS622237**	Connection Diagram	**00519001ME**

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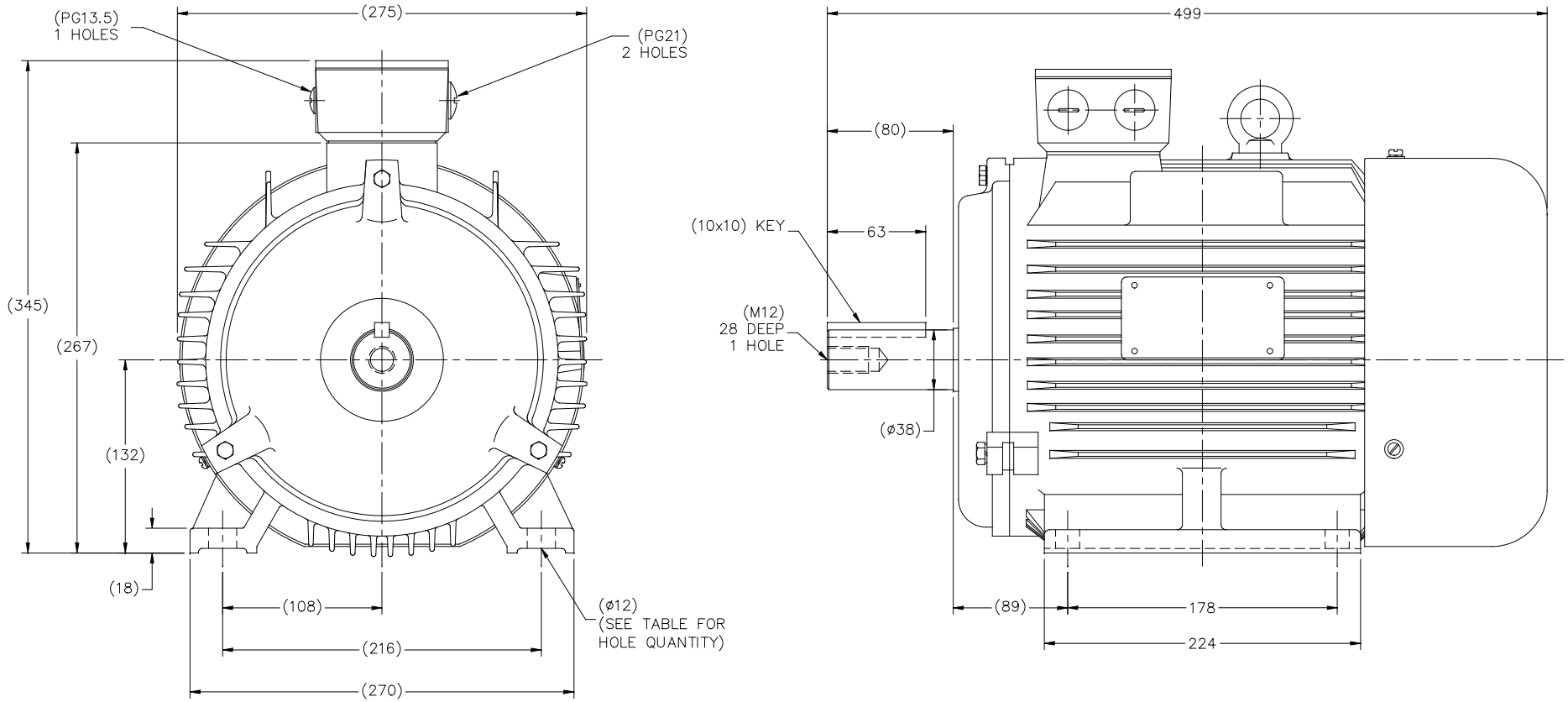
SS622237



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(DIMENSIONS ARE IN MILLIMETERS)

DF132M1–6R	4
DF132M2–6R	4
FRAME	# HOLES

NO.	REVISION	BY & DATE	CHK
G	(4) FOOT HOLES WERE (6) ECO–0130304	WGJ 10–2–17	EMH
2	REM CAT# FROM BLOCK–FOR CAT# SEE SS622237–CAT	MOL 11–29–12	
1	REV PG13.5 HOLES WERE 2 QTY	MOL 09–24–12	

TOLERANCES UNLESS SPECIFIED

ANG	DEC.	METRIC
	.X	±2.5
	.XX	±.76
	.XXX	±.127
	.XXXX	±.0127
±7'30"		

REGAL-BELOIT CORPORATION

TITLE OUTLINE – IEC PREMIUM DF132–R FRAME

MAT'L.

FINISH

CAD FILE SS622237

RFP 11–18–2010

DIST

DRAWN MSG 11–16–2010
CHK MJS 11–18–2010
APPD SB 11–18–2010
SCALE NONE
REF
FMF HEBEI
PREV

SIZE B | DRAWING NO. SS622237 | PAGE OF | REV. G

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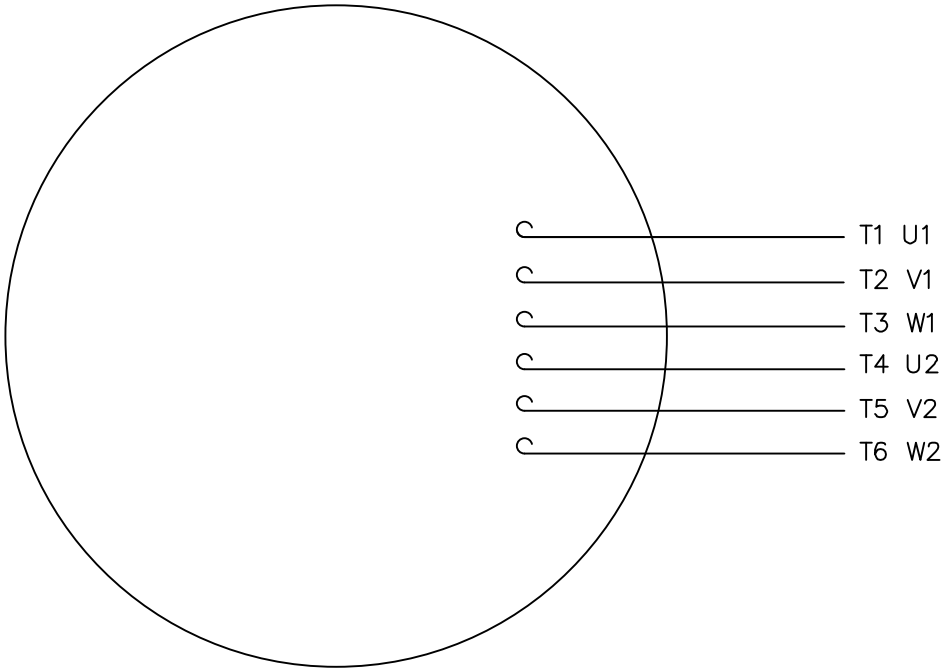
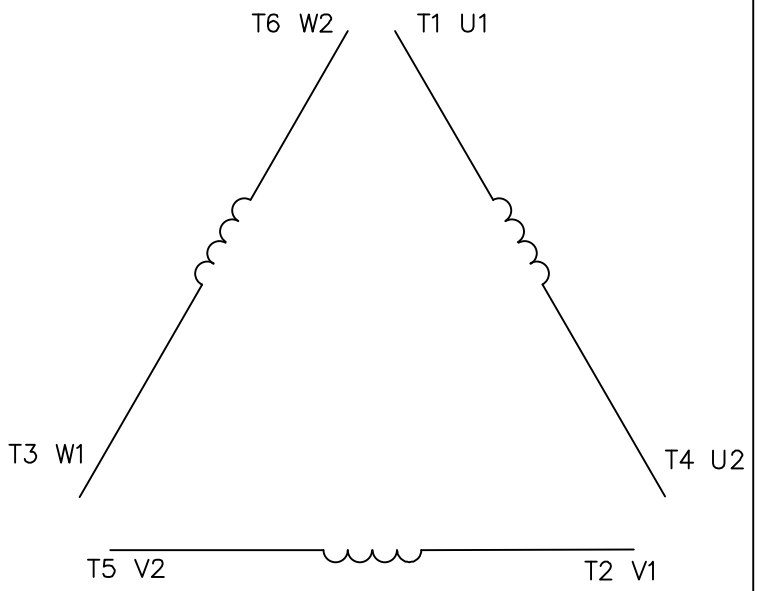


LINE LEADS



	L1	L2	L3	JOIN
START (WYE)	T1 U1	T2 V1	T3 U2	(T4,T5,T6) (U2,V2,W2)
RUN (DELTA)	(T1,T6) (U1,W2)	(T2,T4) (V1,U2)	(T3,T5) (W1,V2)	

NO.	REVISION	BY & DATE	CHK
03	ADDED IEC DESIGNATIONS	MOL 04/27/12	
02	REMOVED OBSOLETE STATUS	KJH 06/28/99	
01	REDRAWN ON CAD	DBT 05/30/97	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

DRAWN	PG 05/07/82
CHK	
APPD	TEM 05/07/82
SCALE	1=1
REF	
FMF	
PREV	

TITLE: EXTERNAL WIRING DIAGRAM
STAR START – DELTA RUN

MAT'L. Y–CONNECTED START – DELTA CONNECTED RUN

FINISH: SINGLE VOLTAGE

CAD FILE: 00519001ME

RFP

DIST

SIZE	DRAWING NO.	REV.
A	005190–01ME	03

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P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: 00519001
OUTLINE: SS622237
WINDING: T10702037 NONE 4
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 132STFC6503
CAT #: R427A
CUSTOMER PART #:
MOUNTING: F3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	3600	3550	132S	TEFC	TFC	J	N

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	7	Y START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.7	1/2 LD EFF	90.2	GTD EFF	ELECT. TYPE
F.L. PF	86.0	3/4 LD PF	82.0	1/2 LD PF	74.0	88.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
11.1 LB-FT	59.0	23.0 LB-FT 207%	39.0 LB-FT 351%	32	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
63 dBA	72 dBA	0.00 LB-FT²	0 LB-FT²	20 SEC.	0	155 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6208	BALL 6207	POLYREX EM	STANDARD IEC	NONE	NONE	1045 HOT ROLLED (C-204	CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0	0	0	0	0	0.150	ODE

*
NOTES
*

INVERTER TORQUE: CONSTANT 20:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY: EARL BABBITTS
DATE: 13-07-17

FORM: 3531 REV_4 2/27/06

UL: V-INS, CONST UL REC

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Data Sheet

Date: 6/29/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

132STFC6503

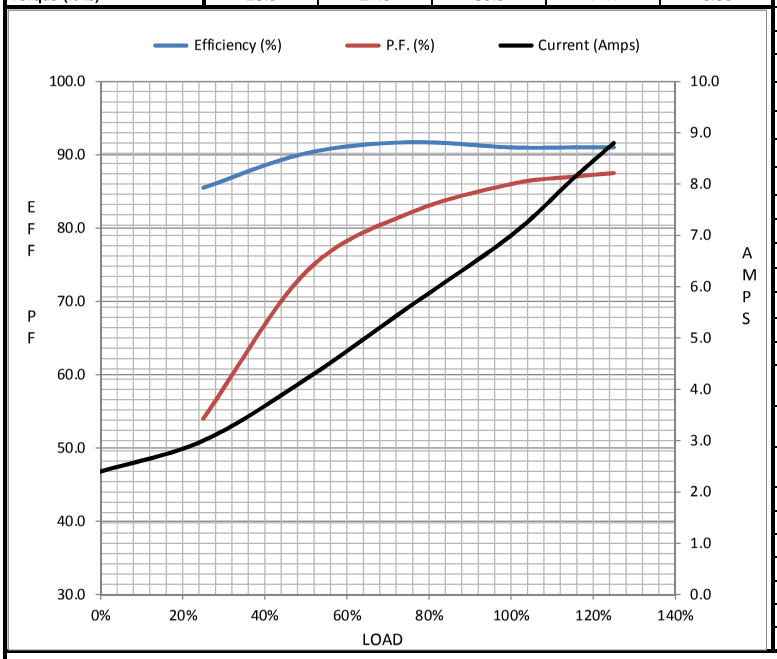
Submittal
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.40	3.0	4.2	5.6	7.0	8.1	8.8	59.0	
Torque (ft-lb)	0.00	2.70	5.5	8.3	11.1	12.8	13.9	23.0	
RPM	3600	3588	3577	3565	3550	3,549	3540	0	
Efficiency (%)		85.5	90.2	91.7	91.0	91.0	91.0		
P.F. (%)	8.5	54.0	74.0	82.0	86.0	87.0	87.5	43.0	

Motor Speed Data

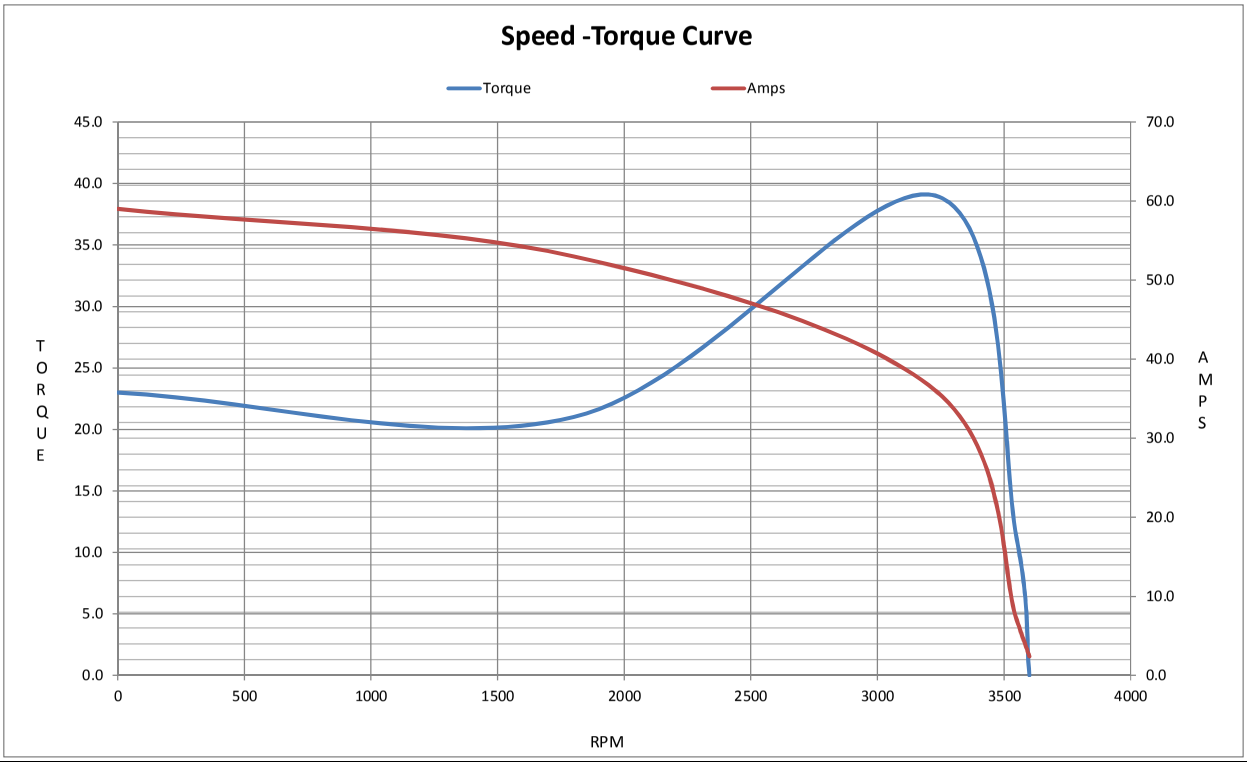
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3230	3550	3600
Current (Amps)	59.0	53.0	36.0	7.0	2.40
Torque (ft-lb)	23.0	21.0	39.0	11.1	0.00



Information Block

HP	7.5
Sync. RPM	3600
Frame	132
Enclosure	TEFC
Construction	TFC
Voltage	575 V
Frequency	60 Hz
Design	A
LR Code letter	J
Service Factor	1.15
Temp Rise @ FL	32 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.00 Lb-Ft²
Ref Wdg	T10702037 NONE
Sound Pressure @ 1M	63 dBA
VFD Rating	CONSTANT 20:1
Outline Dwg	SS622237
Conn. Diag	00519001
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve