marathon®

General Purpose Motors

Model No: 132STFC6501
Catalog No: R327A

General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 RPM, 132S Frame, TEFC

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Product Information Packet: Model No: 132STFC6501, Catalog No: R327A General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 RPM, 132S Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**7.50 & 5 Hp**
Output KW	**5.6 & 3.7 kW**	Voltage	**230/460 & 200/400 V**
Speed	**3540 & 2960 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**132S**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**89.5 & 90.2 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**18/9 & 14.4/7.2 A**
Power Factor	**87**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**H**	Drive End Bearing Size	**6208**
Opp Drive End Bearing Size	**6207**	UL	**No**
CSA	**N**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**0 O**	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 1/2 in**	Shaft Extension	**3.14 in**
Assembly/Box Mounting	**F3**	Inverter Load	**Constant 20:1**

Drawings

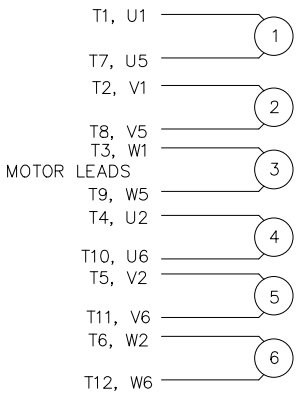
Connection Drawing	**004172.03**	Outline Drawing	**SS622237**

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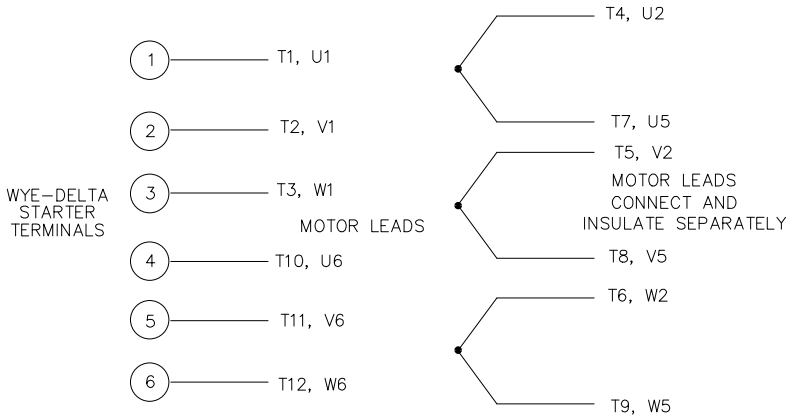
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WYE – DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

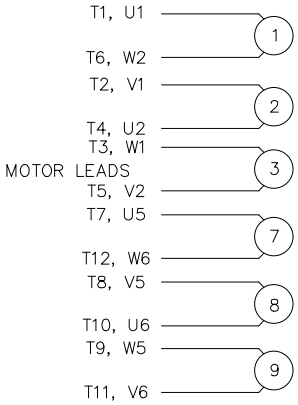


HIGH VOLTAGE CONNECTION



REFER TO THE WYE–DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

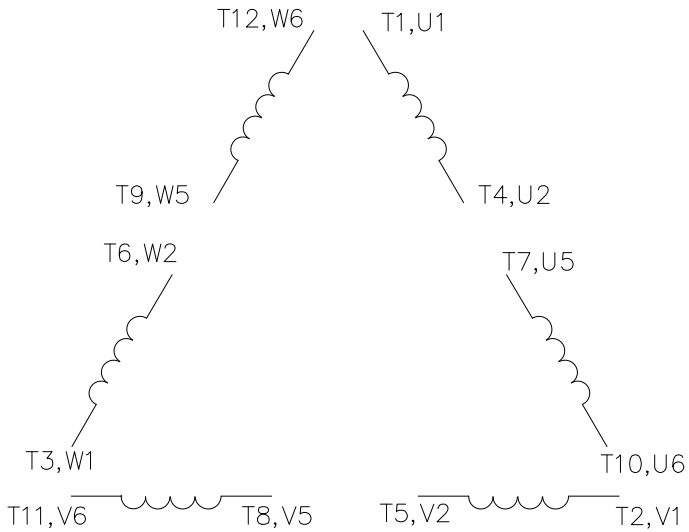
PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER – HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

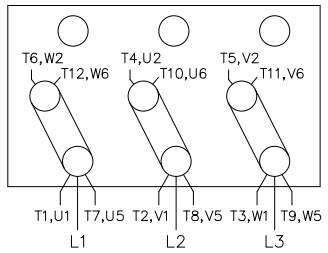
LINE LEADS



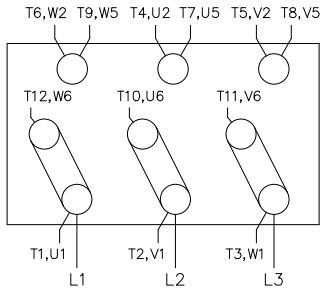
ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

12 LEAD DELTA CONNECTION ACROSS THE LINE START
(FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE
(MUST BE REWIRED AS SHOWN)



HIGH VOLTAGE
(FACTORY WIRED FOR HIGH VOLTAGE AS SHOWN)



DRAWING REVISION: B	REVISION BY: SV	REV DATE/ © DATE: 08/07/2026	DRAWN BY: NK	marathon™
REQUEST NUMBER: CR-0027273	APPROVED BY: RMS	DATE: 08/07/2026	DATE: 06/28/18	DESCRIPTION: DELTA - WYE CONNECTION DIAGRAM
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED			APPROVED BY: SR	IEC CAST IRON MOTORS
			DATE: 06/28/18	MATERIAL / PROCESS/FINISH
			REFERENCE	
			THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: 004172-03 / SHEET: 1 OF 1

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Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

132STFC6501

Submittal

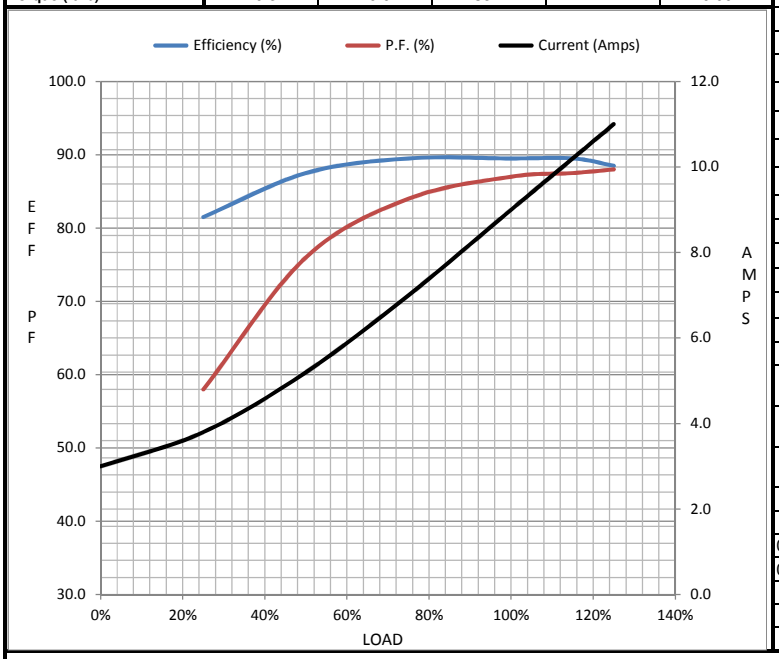
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.0	3.8	5.2	7.0	9.0	10.2	11.0	62.0	
Torque (ft-lb)	0.00	2.80	5.5	8.3	11.1	12.8	13.9	20.5	
RPM	3600	3588	3572	3558	3540	3,532	3522	0	
Efficiency (%)		81.5	87.5	89.5	89.5	89.5	88.5		
P.F. (%)	12.0	58.0	76.0	84.0	87.0	87.5	88.0	42.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3250	3540	3600
Current (Amps)	62.0	58.0	38.5	9.0	3.0
Torque (ft-lb)	20.5	19.0	35.2	11.1	0.00



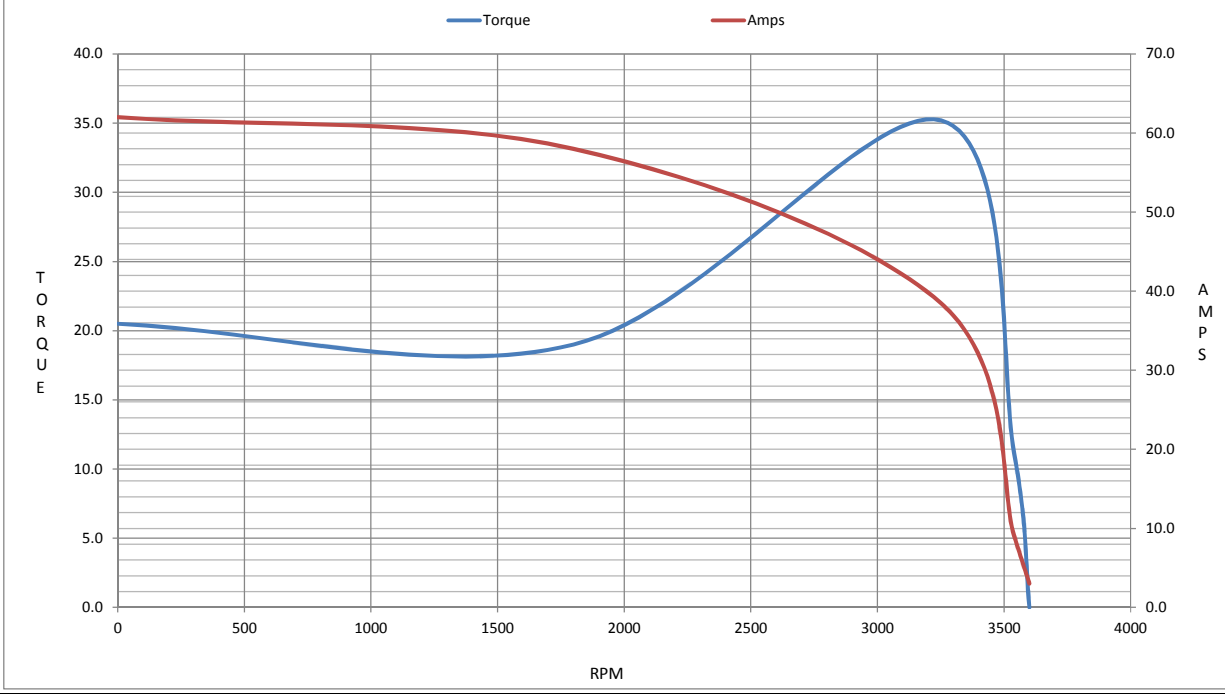
Information Block

HP	7.5
Sync. RPM	3600
Frame	132
Enclosure	TEFC
Construction	TFC
Voltage	230/460#200/401V
Frequency	60 Hz
Design	B
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	40 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.00 Lb-Ft²
Ref Wdg	T10702025 NONE
Sound Pressure @ 1M	65 dBA
VFD Rating	CONSTANT 20:1
Outline Dwg	SS622237
Conn. Diag	004172.03
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



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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: 004172.03
OUTLINE: SS622237
WINDING: T10702025 NONE 3
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 132STFC6501
CAT #: R327A
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	3540	132S	TEFC	TFC	H	N

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#200/400	18/9&14.4/7.2	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	89.5	1/2 LD EFF	87.5	GTD EFF	ELECT. TYPE	
F.L. PF	87.0	3/4 LD PF	84.0	1/2 LD PF	76.0	86.5	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	62.0	20.5 LB-FT 185%	35.2 LB-FT 317%	40	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
65 dBA	74 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	UM SEVERE	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6208	BALL 6206	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	0.080	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:
UL: NONE

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

FORM: 3531 REV_4 2/27/06