marathon®

General Purpose Motors

Model No: 284TSTFC6036
Catalog No: E999A

General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 RPM, 284TS Frame, TEFC

©2026 Marathon, All Rights Reserved.

marathon®

Product Information Packet: Model No: 284TSTFC6036, Catalog No: E999A General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 RPM, 284TS Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**25 & 20 Hp**
Output KW	**18.7 & 14.9 kW**	Voltage	**208-230/460 & 190/380 V**
Speed	**1783 & 1480 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**284TS**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**93 & 93 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**66-58.5/29.3 & 60/30 A**
Power Factor	**78**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**A**
KVA Code	**H**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6309**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.058 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Overall Length	**24.87 in**
Shaft Diameter	**1 5/8 in**	Shaft Extension	**3.25 in**
Assembly/Box Mounting	**F1/F2 Capable**		

Drawings

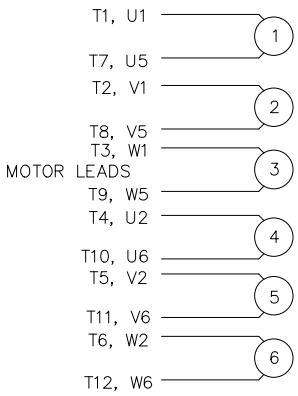
Connection Drawing	**004172.03**	Outline Drawing	**16954060ME-284TS**

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 16/10/2026

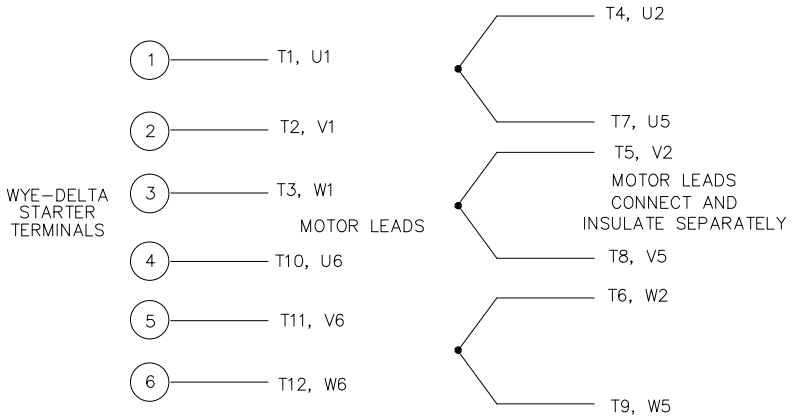
Uncontrolled Copy

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

LOW VOLTAGE CONNECTION

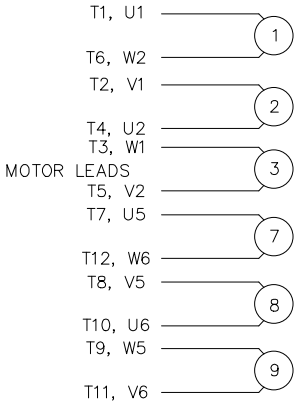


HIGH VOLTAGE CONNECTION



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

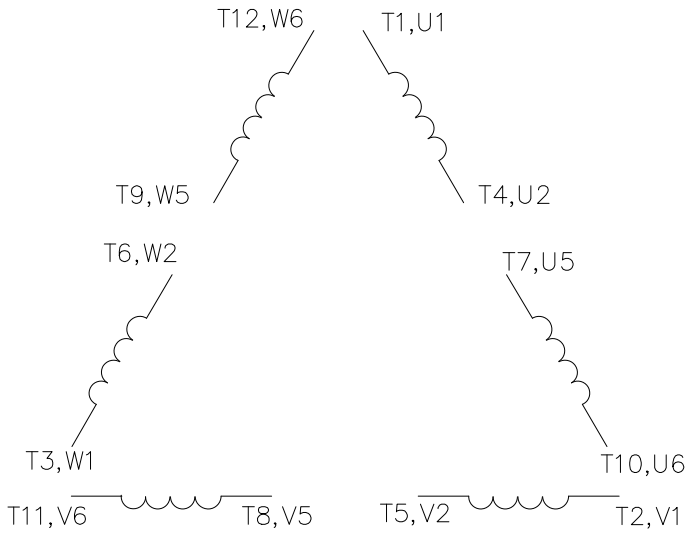
PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



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.

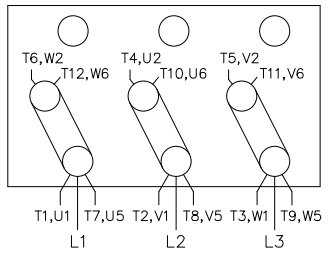
LINE LEADS



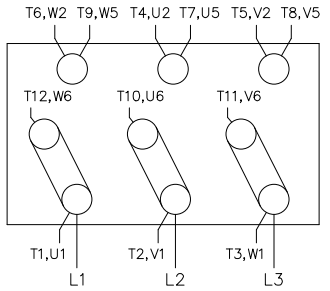
ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

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

PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

COPYRIGHT (PER REVISION DATE) MARATHON ELECTRIC, LLC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF MARATHON ELECTRIC, LLC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

Data Sheet

Date: 29-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

284TSTFC6036

Submittal

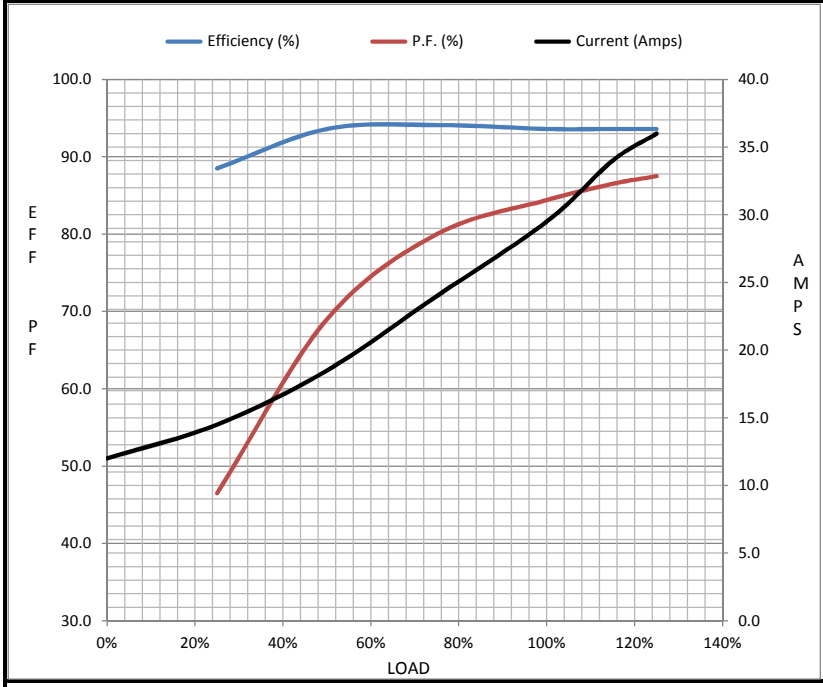
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.0	14.5	18.5	24.0	29.5	34.0	36.0	200	
Torque (ft-lb)	0.00	18.6	37.5	56.0	73.5	84.5	93.5	145	
RPM	1800	1792	1783	1775	1770	1,767	1762	0	
Efficiency (%)		88.5	93.6	94.1	93.6	93.6	93.6		
P.F. (%)	5.5	46.5	69.0	80.0	84.4	86.5	87.5	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1770	1800
Current (Amps)	200	180	130	29.5	12.0
Torque (ft-lb)	145	130	225	73.5	0.00



Information Block

HP	25.0
Sync. RPM	1800
Frame	284
Enclosure	TEFC
Construction	TFC
Voltage	3-230/460#190/3 V
Frequency	60 Hz
Design	A
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	44 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	4.2 Lb-Ft²
Ref Wdg	T14504005 NONE
Sound Pressure @ 1M	75 dBA
VFD Rating	NONE
Outline Dwg	16954060ME
Conn. Diag	004172.03

Additional Specifications:

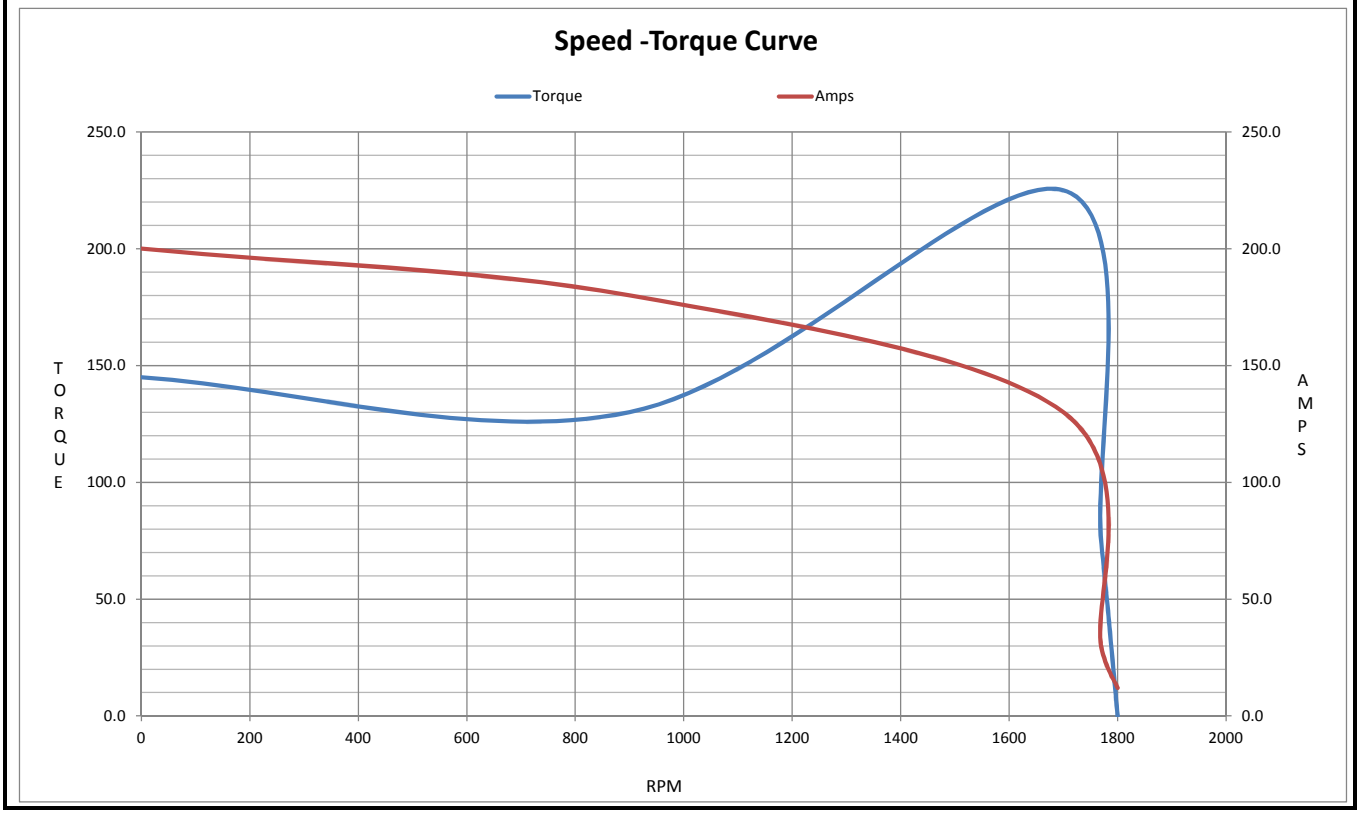
0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve



Uncontrolled Copy

CERTIFICATION DATA SHEET

Model#:	284TSTFC6036 AA	**WINDING#:**	T14504005 NONE 3
CONN. DIAGRAM:	004172.03	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	16954060ME		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25&20	18.7&14.9	1800	1782&1480	284TS	TEFC	H	A

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	208-230/460#190/380	66-58.5/29.3&60/30	ACROSS THE LINE	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 93&93	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 78&80.5	**3/4 LOAD PF: 80**	**1/2 LOAD PF: 69**	92.4	SQ CAGE IND RUN	24 / 12

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
73.5 LB-FT	400 / 200	145 LB-FT 197	225 LB-FT 306	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	4.23 LB-FT^2	- LB-FT^2	20 SEC.	2	394 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 6311	BALL 6309	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: NONE
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

*
NOTES
*

DATE: 06/23/2017 08:11:33 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.