

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TSTFC6006

Catalog No: E819A

30 HP General Purpose Motor, 3 phase, 3600 RPM, 575 V, 286TS Frame, TEFC
General Purpose Motors



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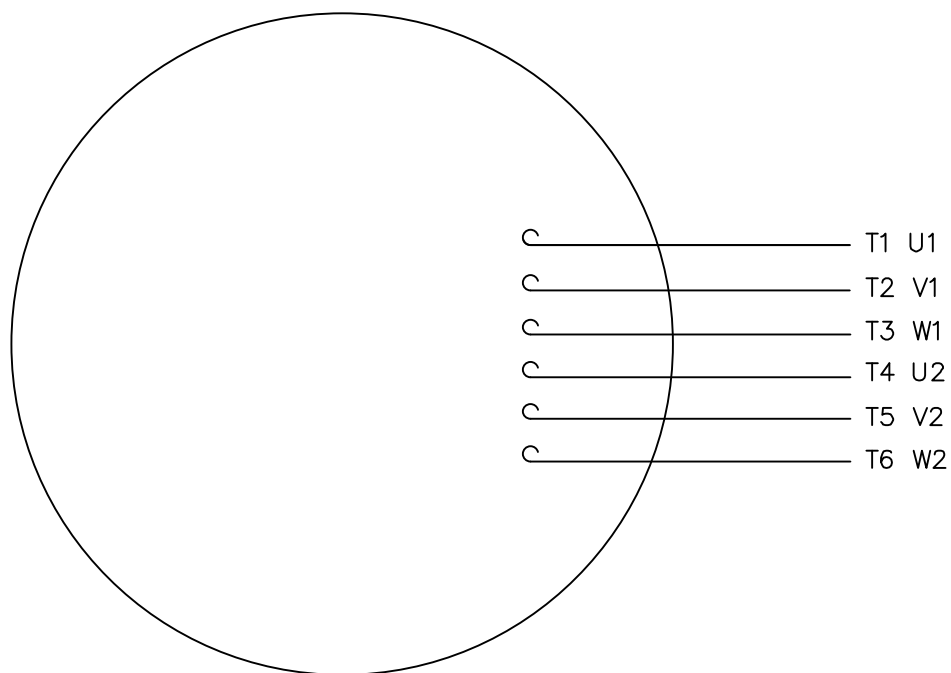
Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	575 V
Current	27.0 A	Speed	3555 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	88.7
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	286TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6309
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

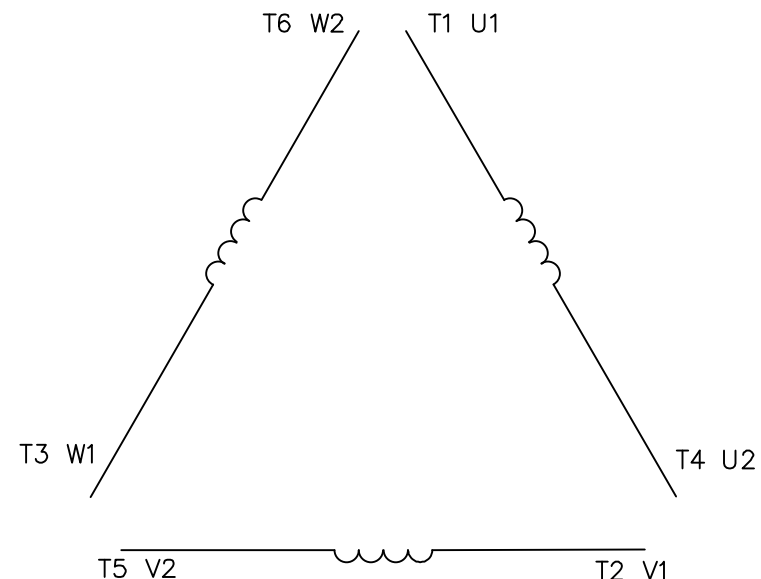
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	TS
Overall Length	26.43 in	Shaft Diameter	1.630 in
Shaft Extension	3.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	16954060ME-286TS	Connection Drawing	005190.01ME


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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)	

				TOLERANCES UNLESS SPECIFIED			DRAWN PG 05/07/82				
				DEC.	INCHES		CHK				
				.X	±.1		APPD TEM 05/07/82				
03	ADDED IEC DESIGNATIONS	MOL 04/27/12	.XX	±.01	TITLE		EXTERNAL WIRING DIAGRAM		SCALE	1=1	
02	REMOVED OBSOLETE STATUS	KJH 06/28/99	.XXX	±.005			STAR START – DELTA RUN		REF		
01	REDRAWN ON CAD	DBT 05/30/97	.XXXX	±.0005	MAT'L		Y–CONNECTED START – DELTA CONNECTED RUN		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH		SINGLE VOLTAGE		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			00519001ME	SIZE	DRAWING NO.	REV.
			DIST						A	005190–01ME	03

CERTIFICATION DATA SHEET

Model#: 286TSTFC6006 AA

WINDING#: T14502017 NONE 4

CONN. DIAGRAM: 005190.01ME

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: 16954060ME

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30	22.4	3600	3555	286TS	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	27	ACROSS THE LINE	CONTINUOUS	F2	1.15	40	3300

FULL LOAD EFF: 94.1	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.7	3/4 LOAD PF: 88	1/2 LOAD PF: 84.5	92.4	SQ CAGE IND RUN	6.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.5 LB-FT	180	90.6 LB-FT 204	117.5 LB-FT 264	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
79.5 dBA	89.5 dBA	2.05 LB-FT^2	2 LB-FT^2	20 SEC.	2	- 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						
6311	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

* N O T E S *	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			

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FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 12/13/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



286TSTFC6006

Submittal

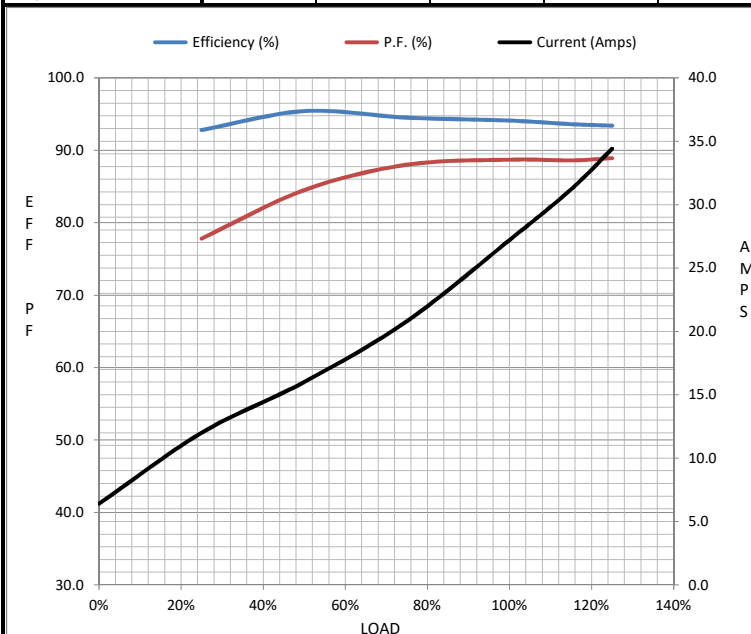
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.4	12.0	16.0	20.8	27.2	31.2	34.4	174	
Torque (ft-lb)	0.00	17.0	25.5	34.0	44.5	54.0	56.5	90.6	
RPM	3600	3588	3577	3565	3555	3,545	3535	0	
Efficiency (%)		92.8	95.4	94.5	94.1	93.6	93.4		
P.F. (%)	8.2	77.8	84.5	88.0	88.7	88.6	88.9	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	1200	3350	3555	3600	HP	30.0
Current (Amps)	174	172	116	27.2	6.4	Sync. RPM	3600
Torque (ft-lb)	90.6	68.0	118	44.5	0.00	Frame	286



Frame	286			
Enclosure	TEFC			
Construction	TFS			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	2.05 Lb-Ft²			
Ref Wdg	T14502017 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	NONE			
Outline Dwg	16954060ME			
Conn. Diag	005190.01ME			
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

