marathon®

General Purpose Motors

Model No: 286TSTFCD6005
Catalog No: GT1130A

General Purpose Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 286TS Frame, TEFC

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Product Information Packet: Model No: 286TSTFCD6005, Catalog No: GT1130A General Purpose Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 286TS Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**30 Hp**
Output KW	**22.4 kW**	Voltage	**575 V**
Speed	**3550 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**286TS**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91.7 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**28.5 A**
Power Factor	**86.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6211**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		

Technical Specifications

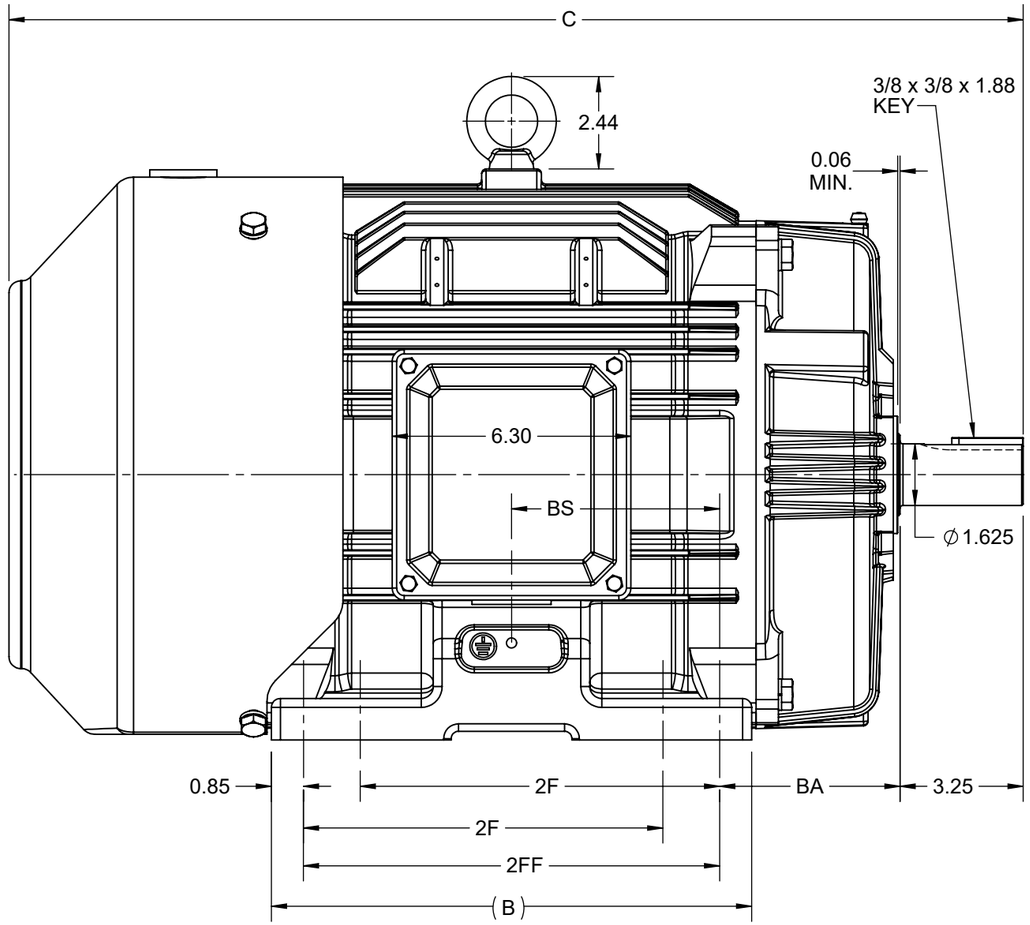
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.338 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Overall Length	**26.77 in**
Frame Length	**12.91 in**	Shaft Diameter	**1.625 in**
Shaft Extension	**3.25 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 2:1/Variable 10:1**		

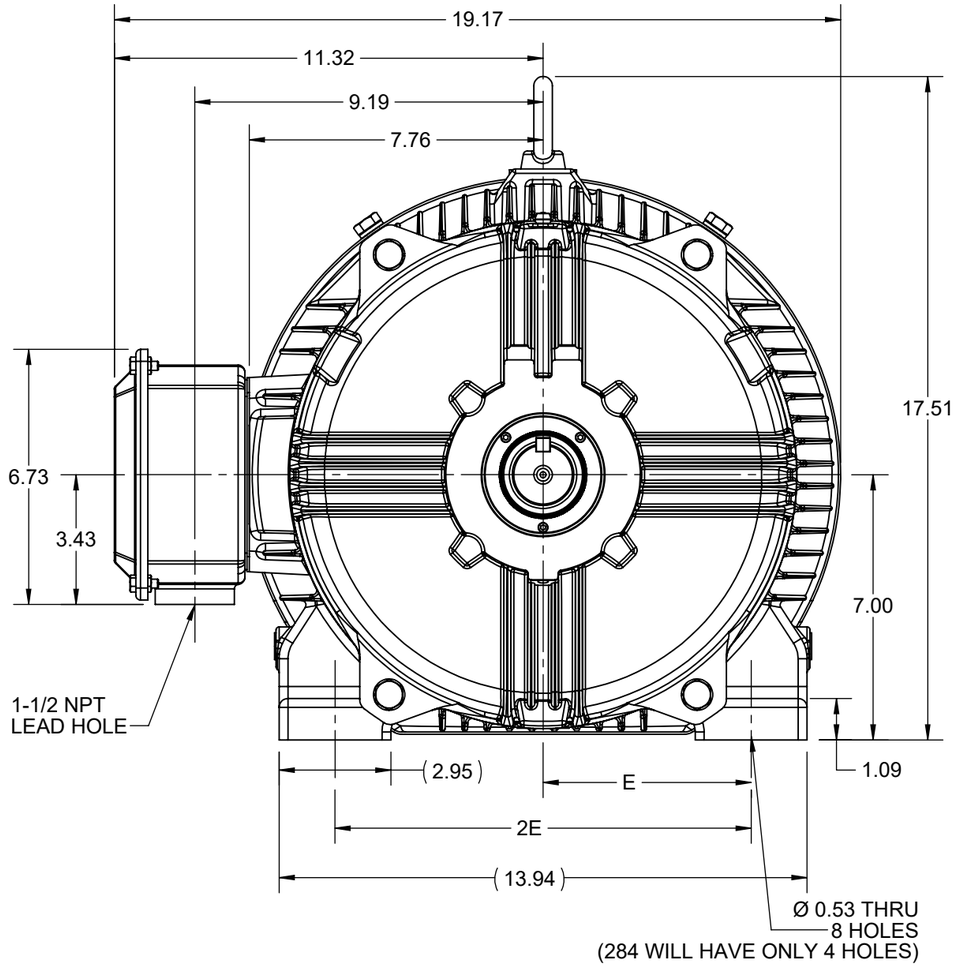
Drawings

Connection Drawing	**EE7300**	Outline Drawing	**SS620698-200**

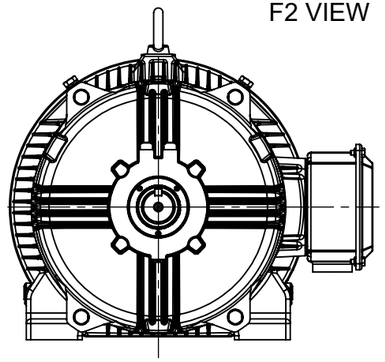
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DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	10.83	25.28	5.50	11.00	---	9.50	4.75	4.75	F1 OR F2	284T
200	12.68	26.78			9.50	11.00		5.50		284/286T





F2 VIEW



DRAWING REVISION: D	REVISION BY: SB	REV DATE/© DATE: 08/12/2025
REQUEST NUMBER: CR-0023556	APPROVED BY: SBD	DATE: 08/12/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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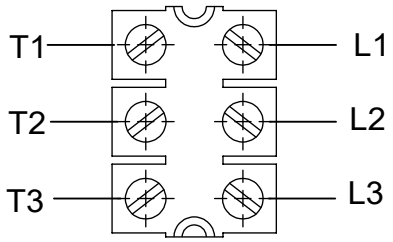
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DRAWN BY: SMAR	marathon™	
DATE: 07/07/2015		
APPROVED BY: SBD	DESCRIPTION: OUTLINE	
DATE: 07/07/2015	284/286TS FR-TEFC-CAST IRON	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS620698	SHEET: 1 OF 1

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

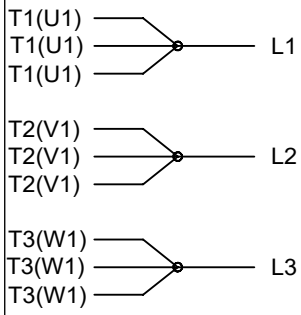
TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

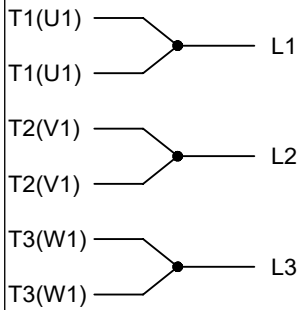


VIEW OF TERMINAL END

IF MOTOR HAS
9 LEADS



IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION: AD	REVISION BY: SB	REV DATE/© DATE: 08/01/2025
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025

REQUEST NUMBER DESCRIPTION
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DRAWN BY: DA	
DATE: 03-26-1993	
APPROVED BY: TB	
DATE: 03-26-1993	
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL	PROCESS/FINISH

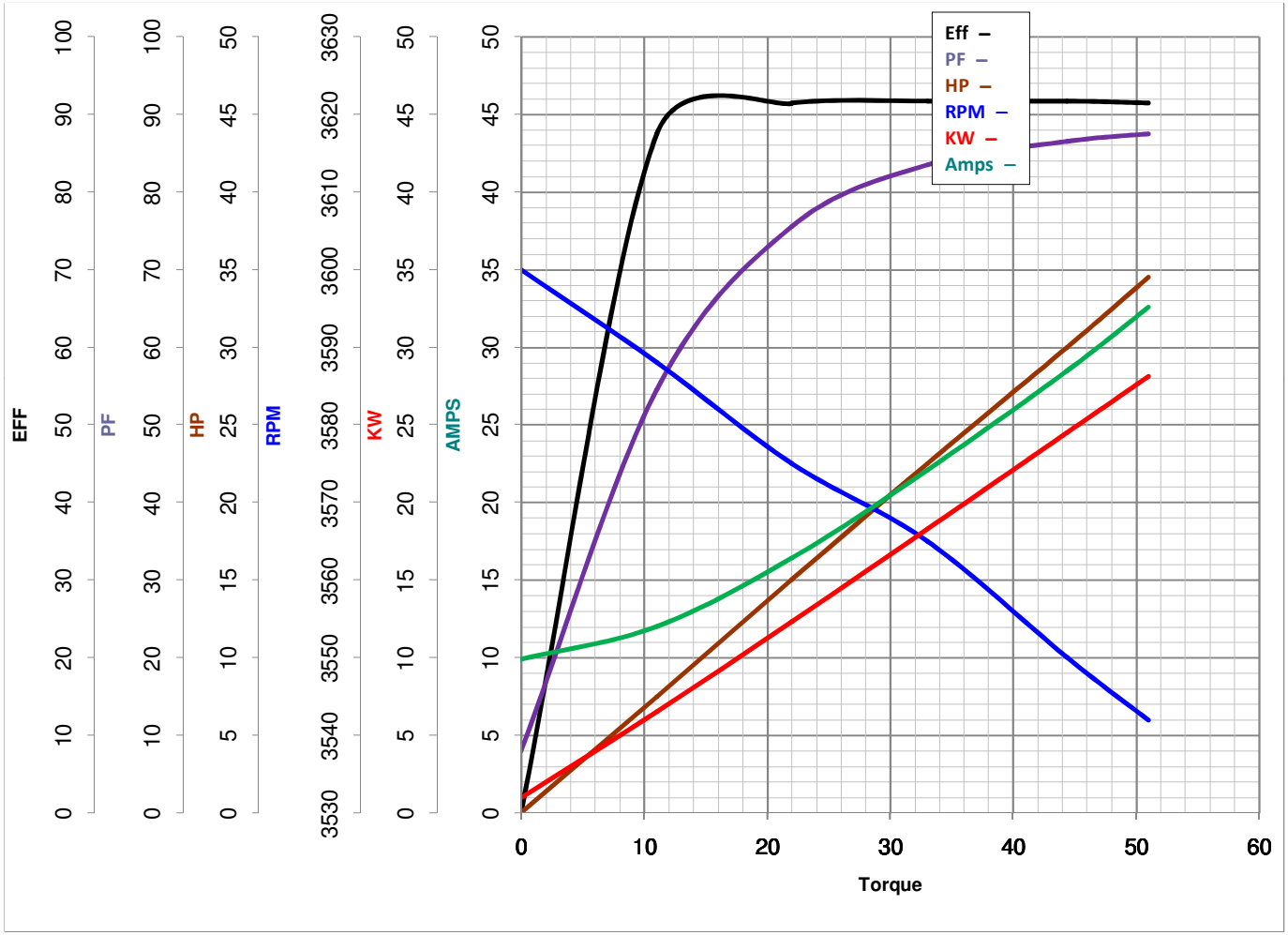
SIZE	DRAWING NUMBER	SHEET
A	EE7300	1 OF 1

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MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer	**Curve at**	575	**Volts**	**HP**	30.00	**PHASE**	3
		60	**HZ**				
Model No 286TSTFCD6005		30	**HP**	**VOLTS**	575		
Catalog No GT1130A				**HZ**	60	**RPM**	3550



Torque in Lb.Ft

FL TORQUE	44.4	**Lb.Ft**	**FL AMPS**	28.5	
BD TORQUE	107.0	**Lb.Ft**	**PU TORQUE**	65.0	**Lb.Ft**
LR TORQUE	77	**Lb.Ft**	**LR AMPS**	168	
WINDING	HE31802003-3	**Prepared By**	FAREEDA	**Date**	5/4/2018