marathon®

General Purpose Motors

Model No: 286TTDBD6030
Catalog No: GT0167

General Purpose Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 286T Frame, DP

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Product Information Packet: Model No: 286TTDBD6030, Catalog No: GT0167 General Purpose Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 286T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**30 Hp**
Output KW	**22.4 kW**	Voltage	**575 V**
Speed	**1775 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.15**	Frame	**286T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**94.1 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**29.2 A**
Power Factor	**82**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6210**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

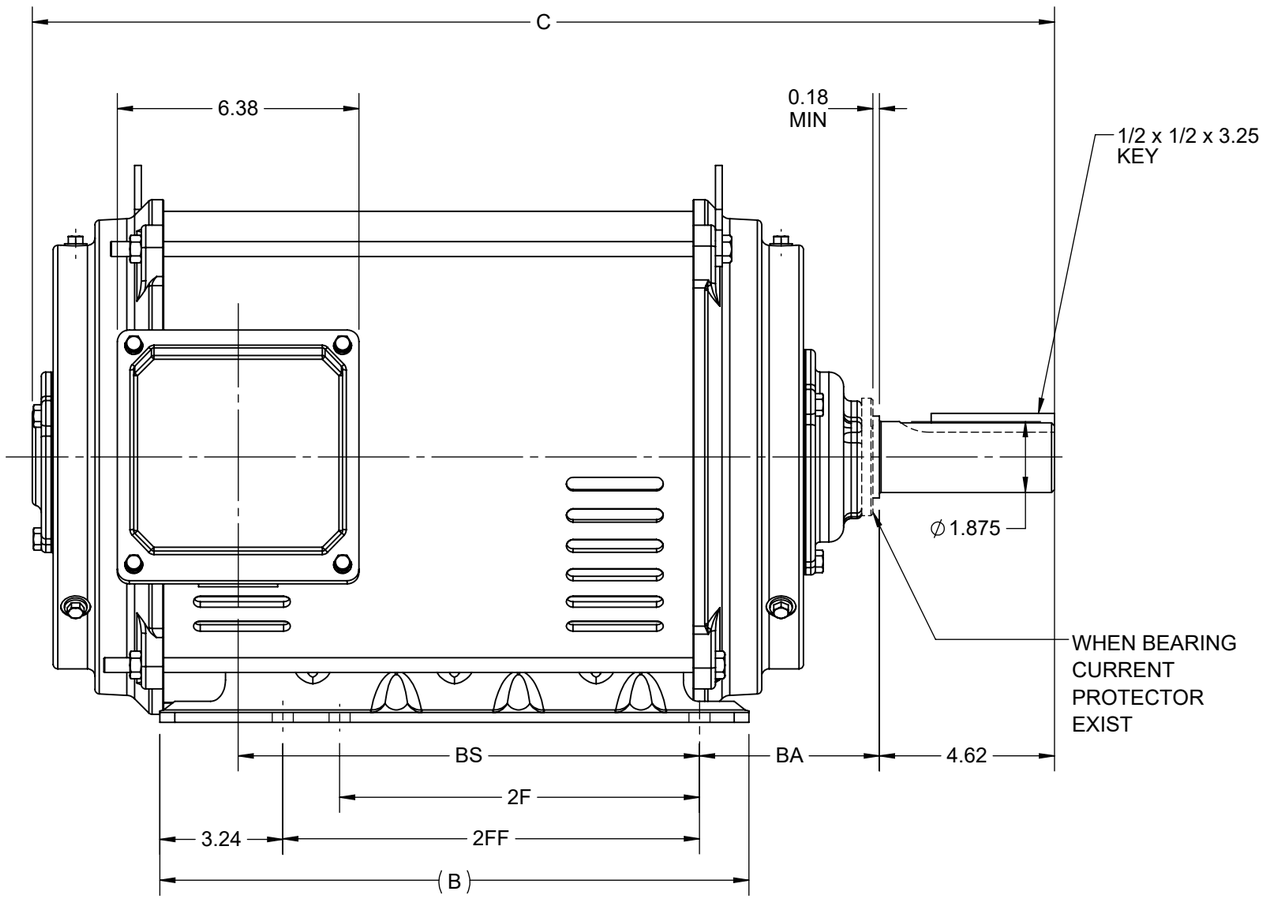
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Wye Start Delta Run Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.289 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**27.09 in**
Frame Length	**355.0 in**	Shaft Diameter	**1.875 in**
Shaft Extension	**4.62 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 2:1/Variable 10:1**		

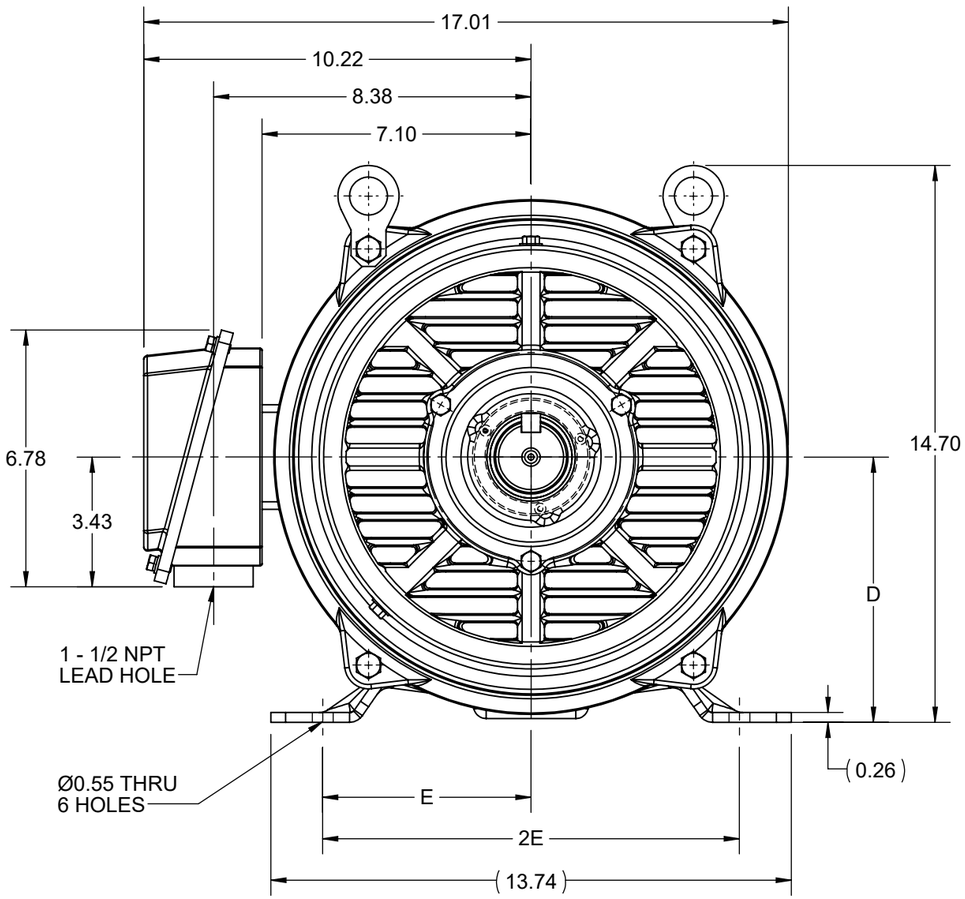
Drawings

Connection Drawing	**EE7340**	Outline Drawing	**SS620687-200**

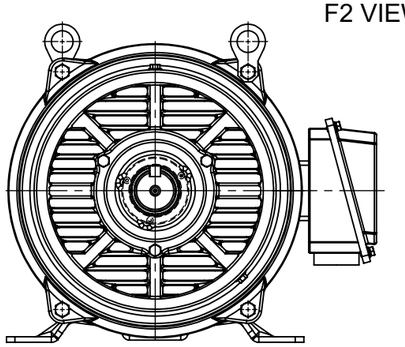
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DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	15.55	25.60	7.00	5.50	11.00	9.50	11.00	4.75	10.80	F1 OR F2	284T
200		26.98							12.18		286T





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
F	SB	07/22/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023556	SBD	07/22/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

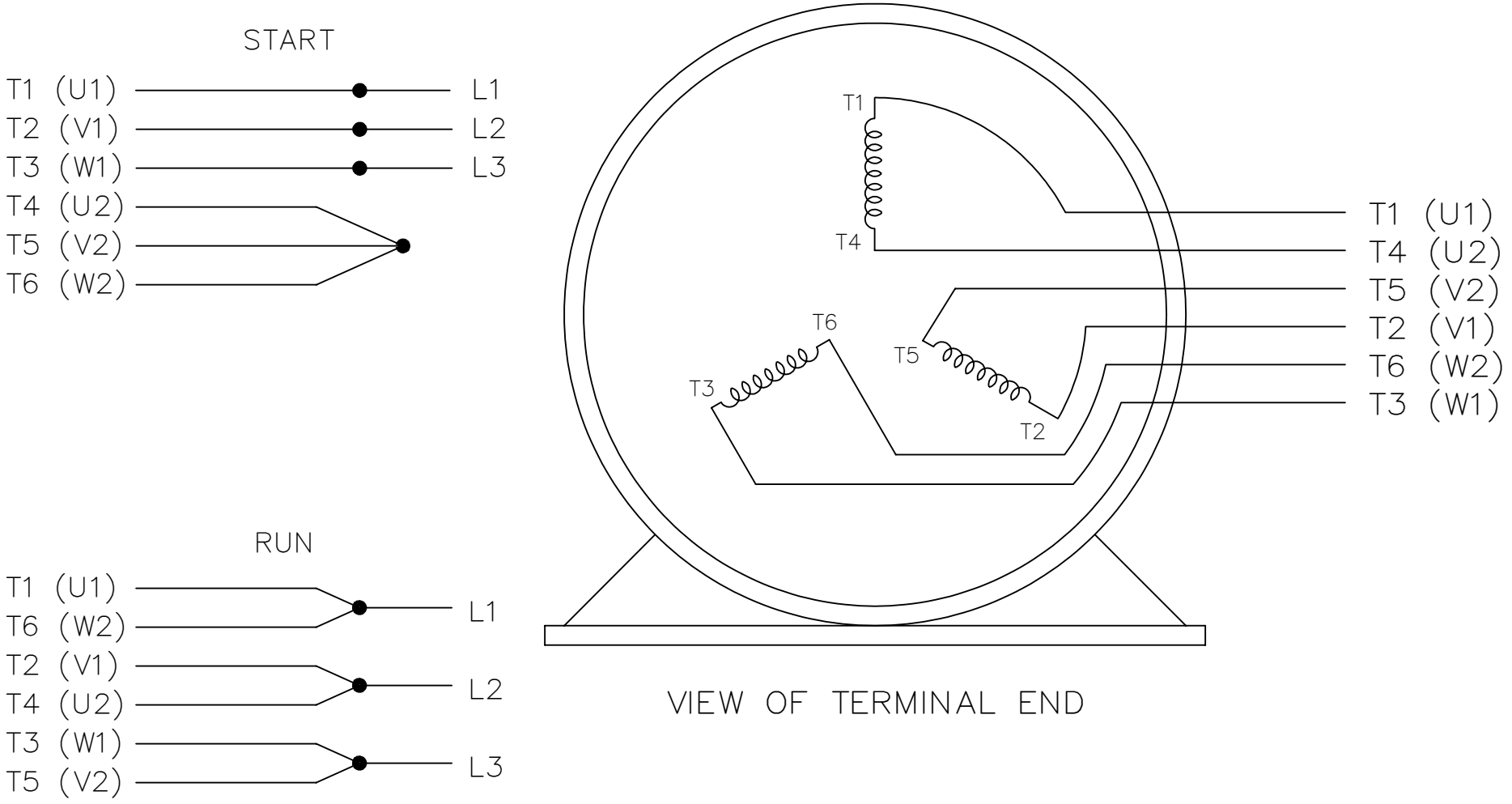
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY	DESCRIPTION
XZ	OUTLINE
DATE: 17/04/2017	284/286T FR NEMA ODP RS
APPROVED BY	
DATE	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS620687 / SHEET: 1 OF 1

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THREE PHASE
WYE START DELTA RUN



DRAWING REVISION: G	REVISION BY: SB	REV DATE/© DATE: 08/04/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: LZ	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/04/2025		DATE: 01-06-1994	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: GK	DESCRIPTION: CONNECTION DIAGRAM 3∅ - WYE START DELTA RUN
				DATE: 01-18-1994	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7340 / SHEET: 1 OF 1

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Data Sheet

Date: 12/1/2021
Customer:
Attention:
Submitted by:

marathon® Motors

286TTDBD6030

Submittal

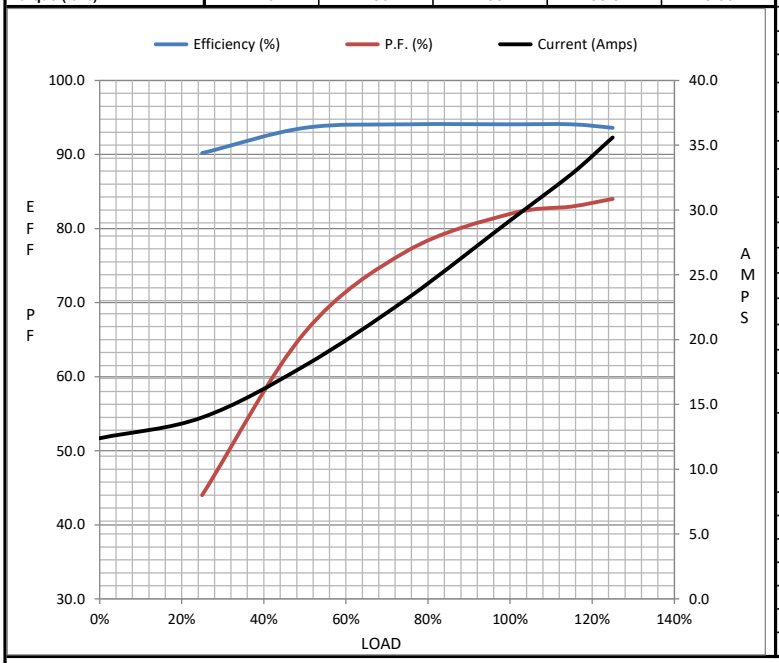
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.4	14.0	18.0	23.2	29.2	32.8	35.6	180	
Torque (ft-lb)	0.00	22.0	44.0	66.5	88.8	102	111	173	
RPM	1800	1795	1788	1780	1775	1,770	1765	0	
Efficiency (%)		90.2	93.6	94.1	94.1	94.1	93.6		
P.F. (%)	4.5	44.0	66.0	77.0	82.0	83.0	84.0	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1645	1775	1800
Current (Amps)	180	142	104	29.2	12.4
Torque (ft-lb)	173	150	235	88.8	0.00



Information Block

HP	30.0	
Sync. RPM	1800	
Frame	286	
Enclosure	DP	
Construction	TDB	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	4.8	Lb-Ft²
Ref Wdg	HA31804015 NONE	
Sound Pressure @ 1M	75	dBA
VFD Rating	VARIABLE 20:1	
Outline Dwg	SS620687-200	
Conn. Diag	EE7300	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.2660	0.1770	1.0480	1.4030	28.0250

Speed -Torque Curve

