marathon®

Close-Coupled Pump Motors

Model No: 286TTDBD6007
Catalog No: GT0472

Close-Coupled Pump Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 286JM Frame, DP

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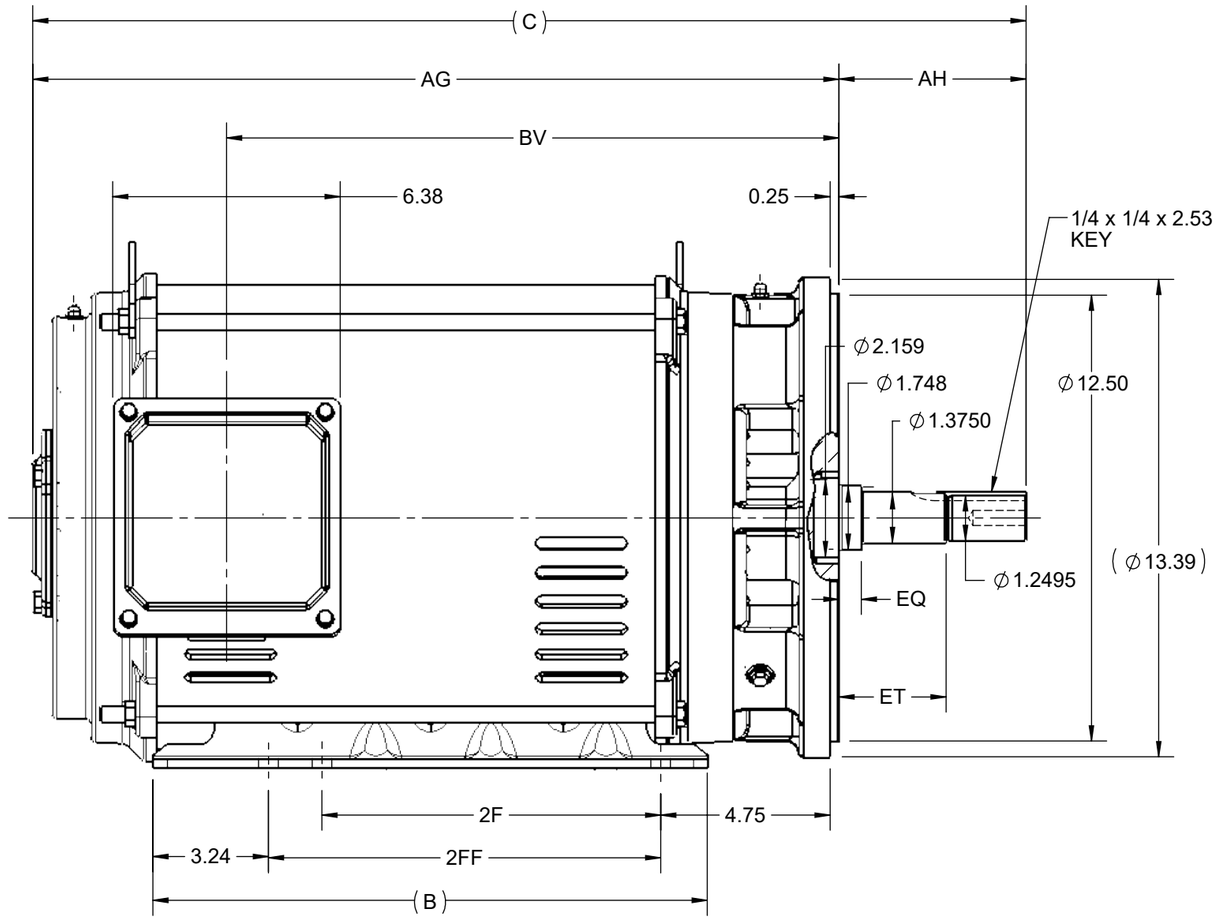
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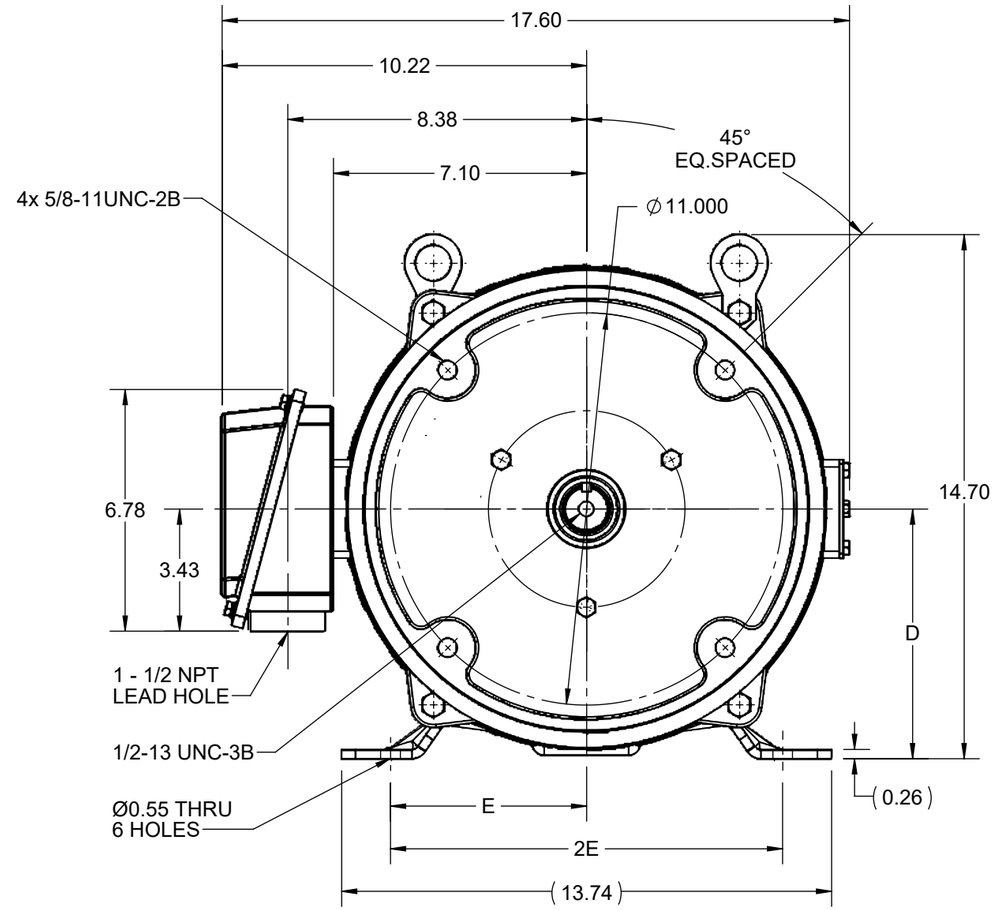
Product Information Packet: Model No: 286TTDBD6007, Catalog No: GT0472 Close-Coupled Pump Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 286JM Frame, DP

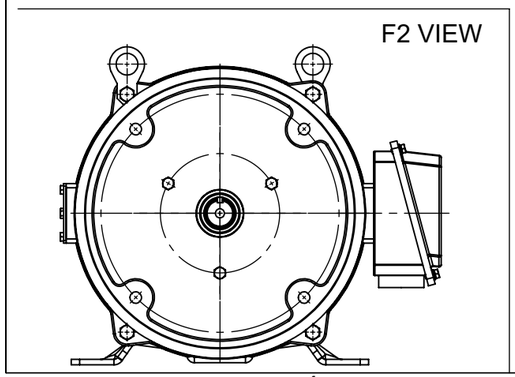
Nameplate Specifications			
Phase	**3**	Output HP	**40 & 30 Hp**
Output KW	**30.0 & 22.4 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3562 & 2965 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**286JM**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**92.4 & 91.7 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**93/46.5 & 86/43 A**
Power Factor	**87**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**b**
KVA Code	**F**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6211**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**
Technical Specifications			
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.2468 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**JM**	Overall Length	**27.09 in**
Frame Length	**13.97 in**	Shaft Diameter	**1.249 in**
Shaft Extension	**5.25 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Variable 10:1**		
Drawings			
Connection Drawing	**EE7308AA**	Outline Drawing	**SS620823-200**

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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	15.55	26.48	7.00	5.50	11.00	9.50	11.00	21.24	5.248	15.80	0.63	3.00	F1 OR F2	284JM
200		27.86						22.61		17.18				286JM







DRAWING REVISION	REVISION BY	REV DATE/© DATE
E	MN	07/17/2025
REQUEST NUMBER	APPROVED BY	DATE
NMR-0238038	VS	07/17/2025

REQUEST NUMBER DESCRIPTION
F2 MOUNTING PLATE ADDED

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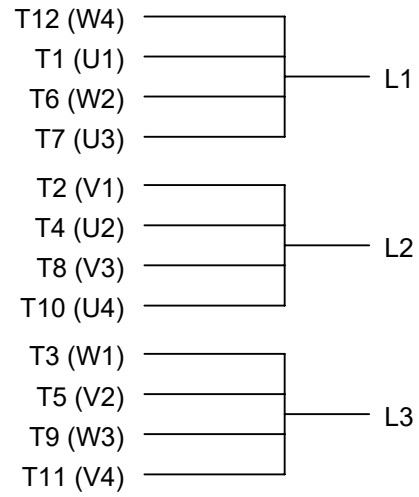
TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

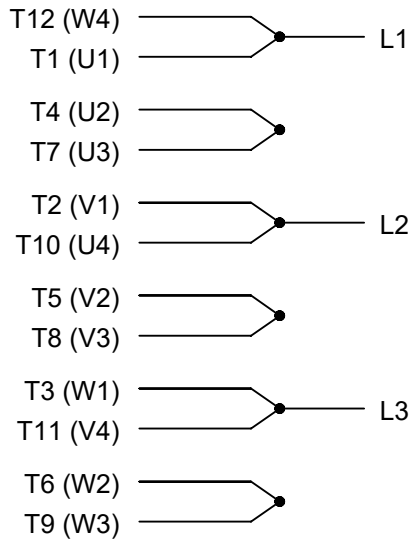
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200/ 5.1/ INCH mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	DESCRIPTION
VS	OUTLINE
DATE	284/286JM FR NEMA ODP RS
12/02/2021	
APPROVED BY	
GNK	
DATE	
12/02/2021	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS620823 / SHEET 1 OF 1

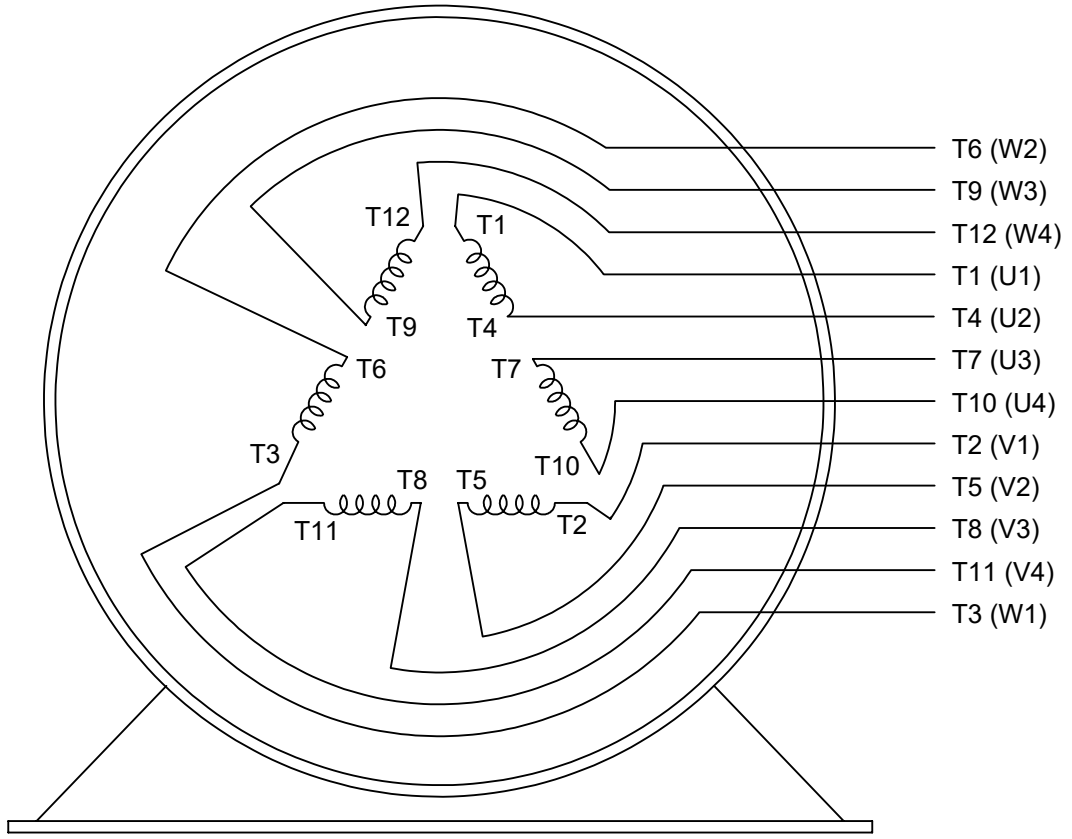
marathon™



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION: L	REVISION BY: SB	REV DATE/© DATE: 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: LZ	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025		DATE: 01-12-1994	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS
				DATE: 01-14-1994	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7308AA / SHEET: 1 OF 1

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Data Sheet

Date: 12/1/2021

Customer:

Attention:

Submitted by:

marathon® Motors

286TTDBD6007

Submittal

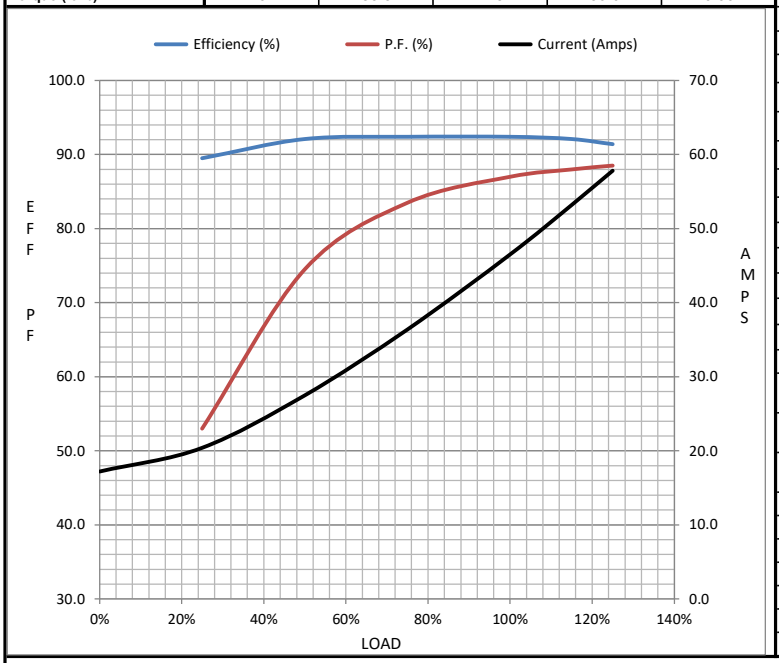
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	17.2	20.4	27.5	36.4	46.5	53.2	57.8	251	
Torque (ft-lb)	0.00	14.6	29.4	44.2	59.0	68.0	74.0	101	
RPM	3600	3590	3582	3572	3562	3,556	3550	0	
Efficiency (%)		89.5	92.1	92.4	92.4	92.1	91.4		
P.F. (%)	8.0	53.0	74.5	83.5	87.0	88.0	88.5	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3385	3562	3600
Current (Amps)	251	228	150	46.5	17.2
Torque (ft-lb)	101	85.5	148	59.0	0.00



Information Block

HP	40.0
Sync. RPM	3600
Frame	286
Enclosure	DP
Construction	TDB
Voltage	208-230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	F
Service Factor	1.15
Temp Rise @ FL	60 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk²	3.6 Lb-Ft²
Ref Wdg	HA31802008 NONE
Sound Pressure @ 1M	78 dBA
VFD Rating	VARIABLE 20:1
Outline Dwg	SS620823-200
Conn. Diag	EE7308AA
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1600	0.0610	0.4910	0.6210	15.7890

Speed -Torque Curve

