marathon®

Close-Coupled Pump Motors

Model No: 286TTDBD6012
Catalog No: GT2472

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

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Product Information Packet: Model No: 286TTDBD6012, Catalog No: GT2472 Close-Coupled Pump Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 286JP 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	**286JP**
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

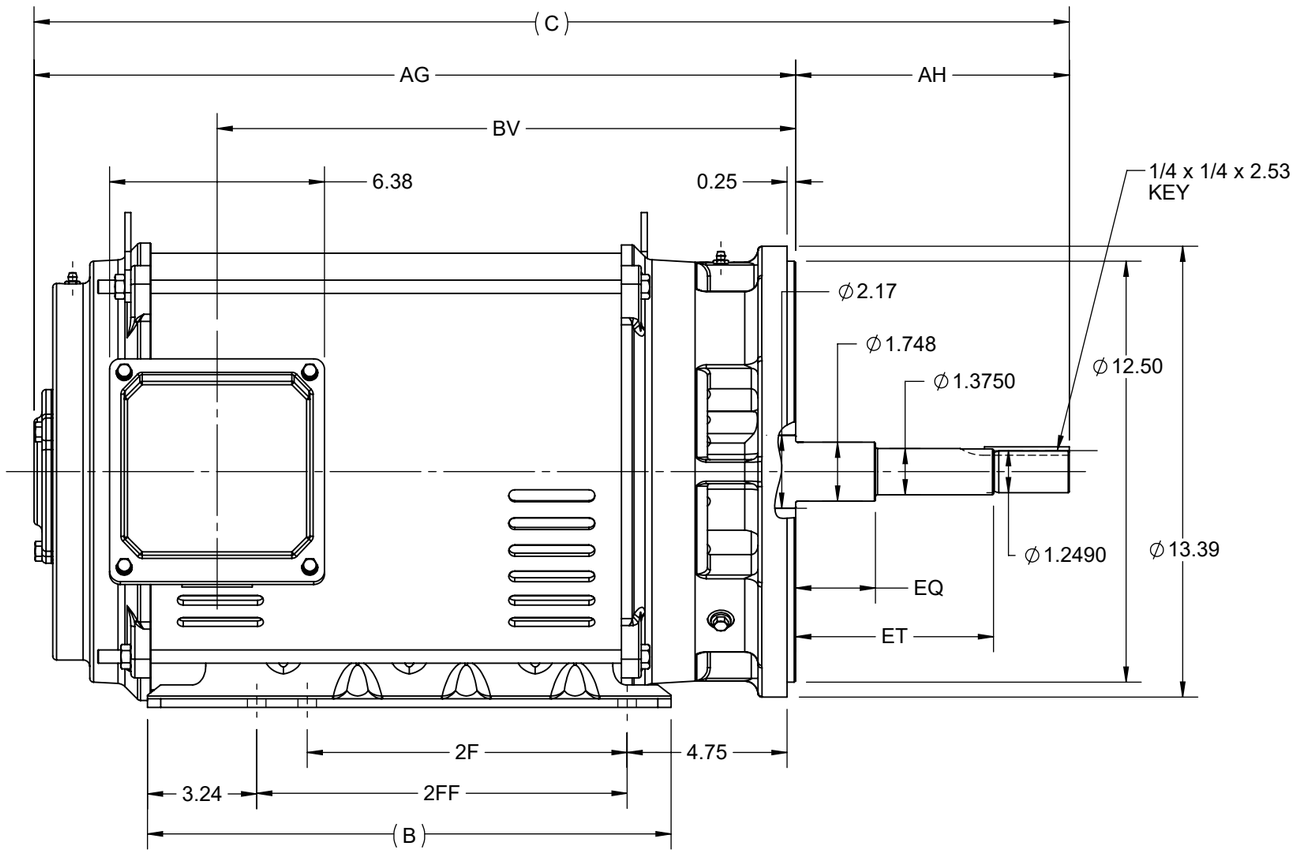
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.2468 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**JP**	Overall Length	**30.19 in**
Frame Length	**13.97 in**	Shaft Diameter	**1.249 in**
Shaft Extension	**8.4 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Variable 10:1**		

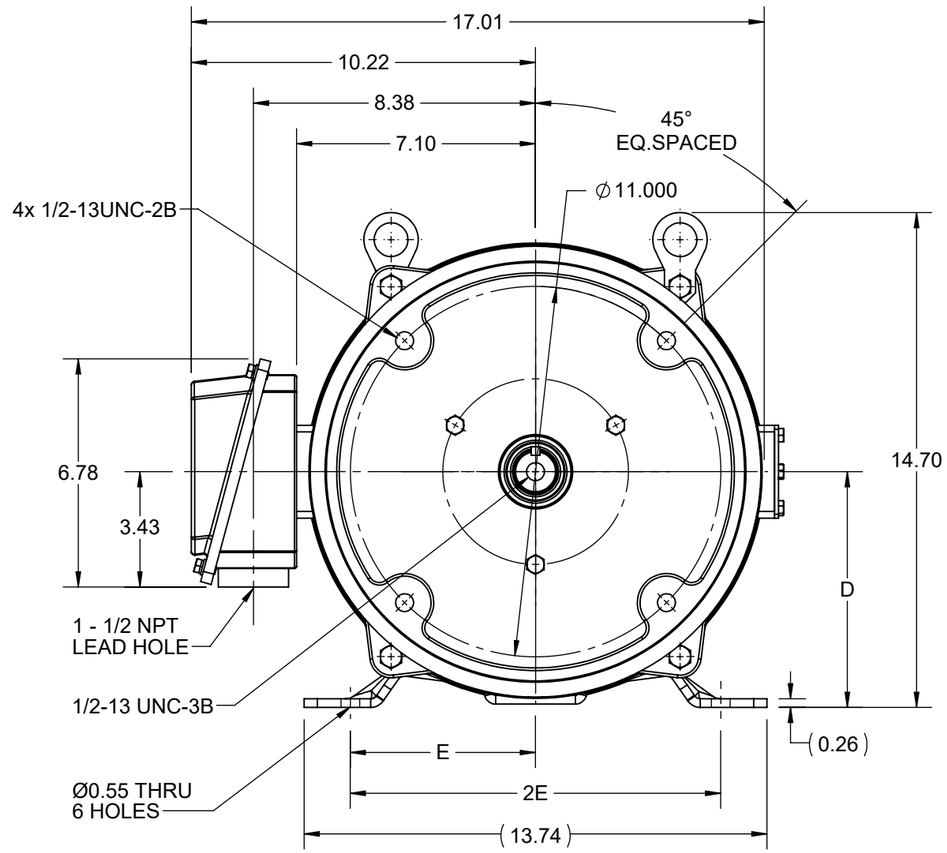
Drawings

Connection Drawing	**EE7308AA**	Outline Drawing	**SS620826-200**

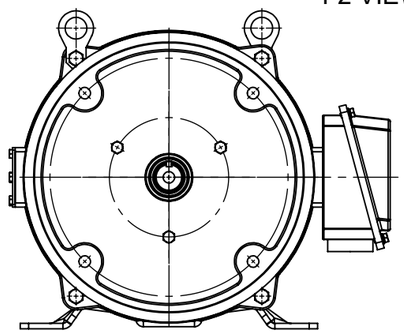
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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	15.55	29.36	7.00	5.50	11.00	9.50	11.00	21.24	8.126	15.80	2.37	5.88	F1 OR F2	284JP
200		30.74						22.61		17.18				284/286JP





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	VS	23RD JULY 25
REQUEST NUMBER	APPROVED BY	DATE
NMR-0238040	VS	23RD JULY 25

REQUEST NUMBER DESCRIPTION
ADDED F2 MOUNTING PLATE

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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 / INCH 5.1 / mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

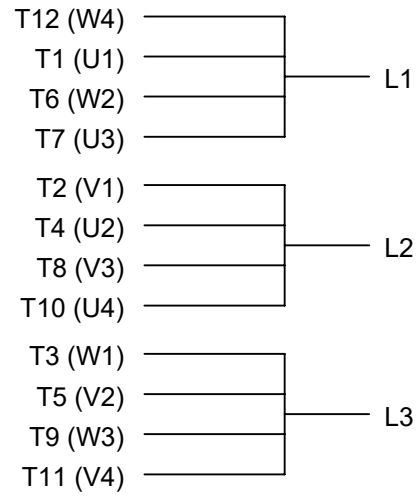
DRAWN BY	WY
DATE	17/04/2017
APPROVED BY	ZYH
DATE	17/04/2017
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

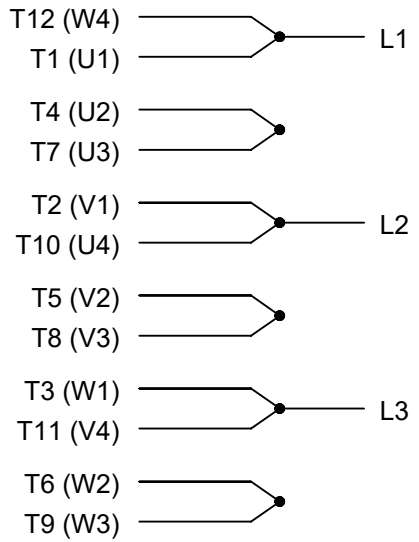
DESCRIPTION
OUTLINE
284/286JP FR NEMA ODP RS

MATERIAL | PROCESS/FINISH

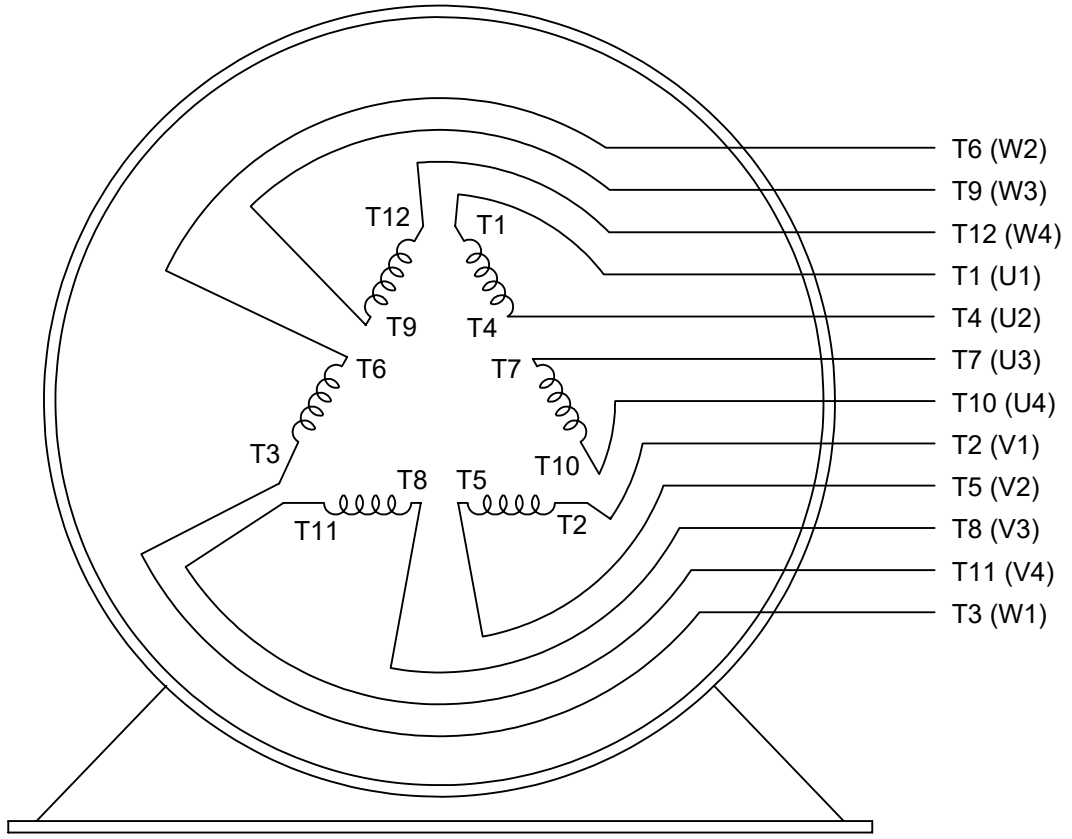
SIZE B | DRAWING NUMBER SS620826 | SHEET 1 OF 1



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

286TTDBD6012

Submittal

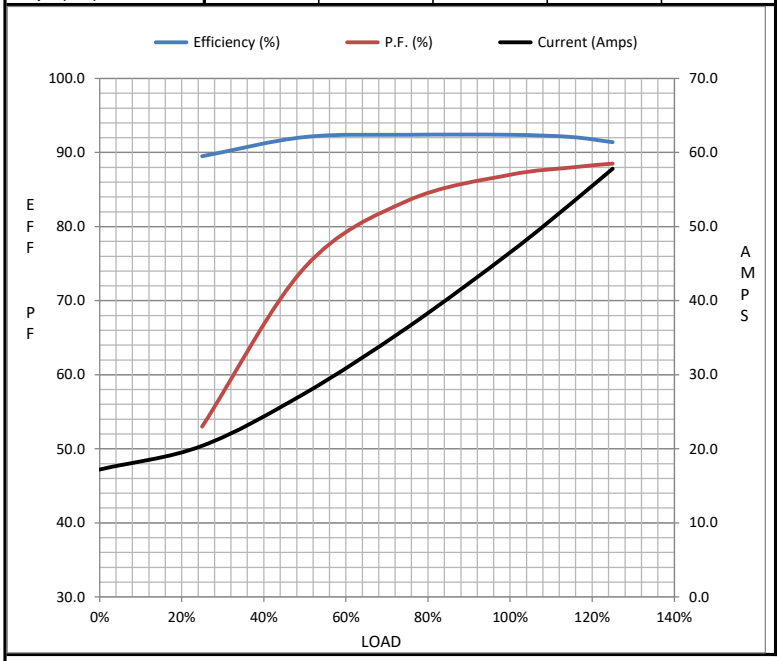
Data @ 460 V

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	SS620826-200
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

