marathon®

Close-Coupled Pump Motors

Model No: 324TTDBD6013
Catalog No: GT2576

Close-Coupled Pump Motor, 50 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 324JP Frame, DP

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Product Information Packet: Model No: 324TTDBD6013, Catalog No: GT2576 Close-Coupled Pump Motor, 50 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 324JP Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**50 Hp**
Output KW	**37.0 kW**	Voltage	**575 V**
Speed	**3565 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**324JP**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**93 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**46.0 A**
Power Factor	**87.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**6312**
Opp Drive End Bearing Size	**6212**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

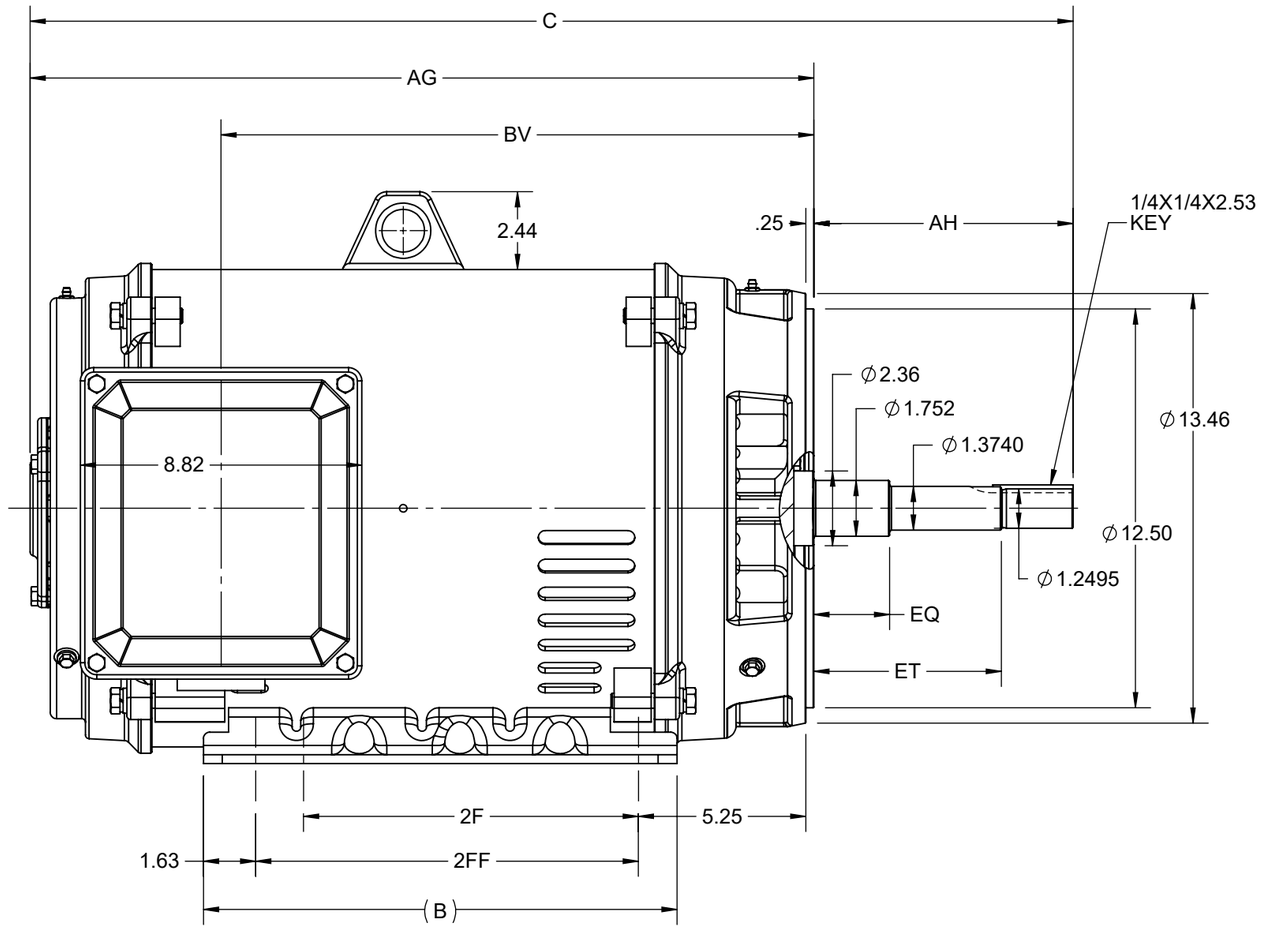
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.1708 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**JP**	Overall Length	**31.82 in**
Frame Length	**14.56 in**	Shaft Diameter	**1.249 in**
Shaft Extension	**8.37 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 4:1/Variable 10:1**		

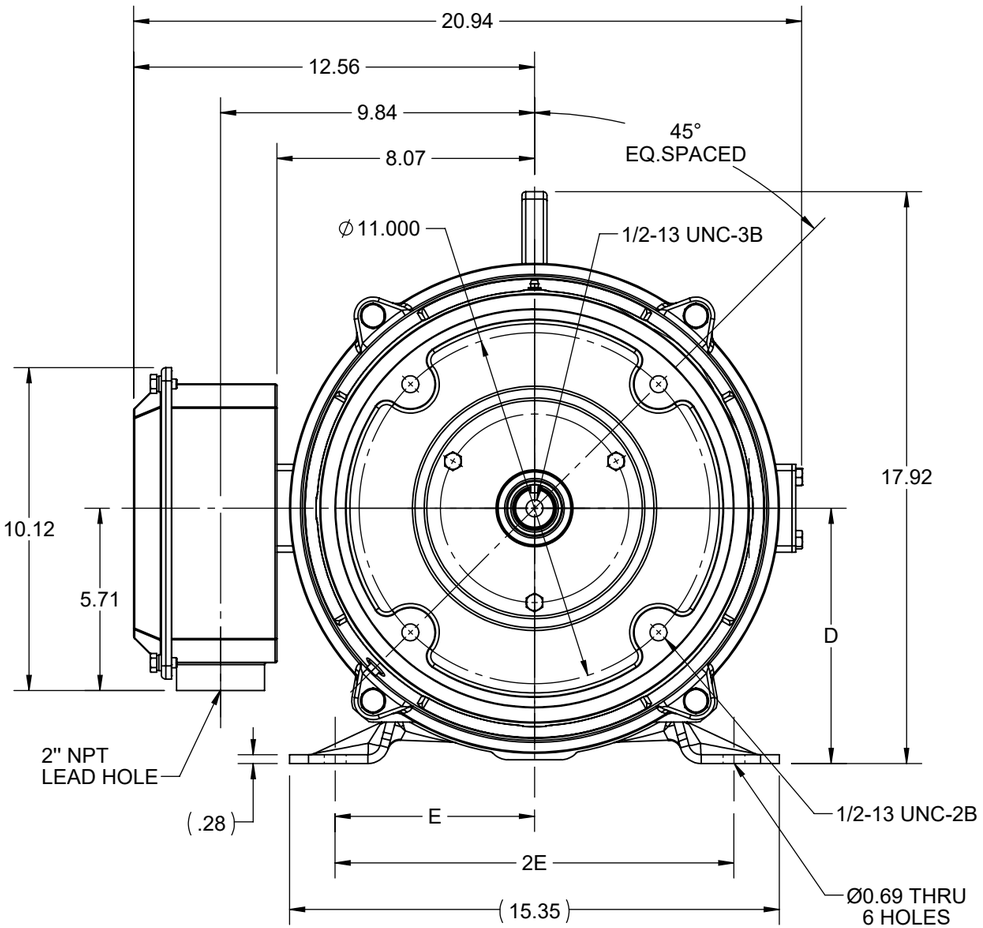
Drawings

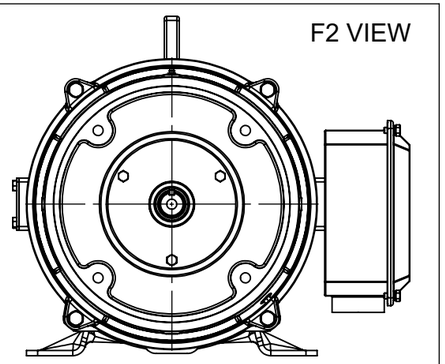
Connection Drawing	**EE7300**	Outline Drawing	**SS620812-100**

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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	14.85	31.47	8.00	6.25	12.50	10.50	12.00	23.35	8.126	17.40	2.37	5.87	F1 OR F2	324JP
200		32.69						24.57		18.58				326JP







DRAWING REVISION: D	REVISION BY: CP	REV DATE/© DATE: 10/27/2025
REQUEST NUMBER: CR-0024536	APPROVED BY: VS	DATE: 10/27/2025
REQUEST NUMBER DESCRIPTION: ADDED F2 MOUNTING PLATE		

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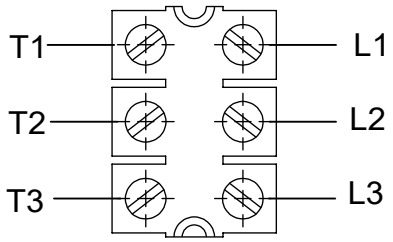
PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY: XZ	marathon™	
DATE: 25/02/2016		
APPROVED BY: YW	DESCRIPTION: OUTLINE	
DATE: 25/02/2016	324/326JP FR NEMA ODP RS	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B	DRAWING NUMBER: SS620812
		SHEET: 1 OF 1

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

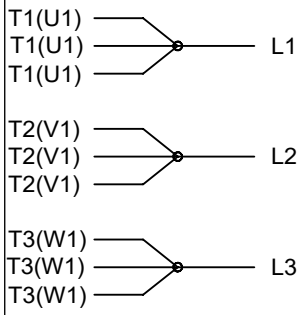
TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

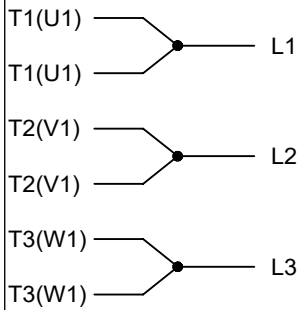


VIEW OF TERMINAL END

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
DRAWING TITLE BLOCK UPDATED

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

marathon™

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300	1 OF 1

Data Sheet

Date: 12/2/2021
Customer:
Attention:
Submitted by:

marathon® Motors

324TTDBD6013

Submittal

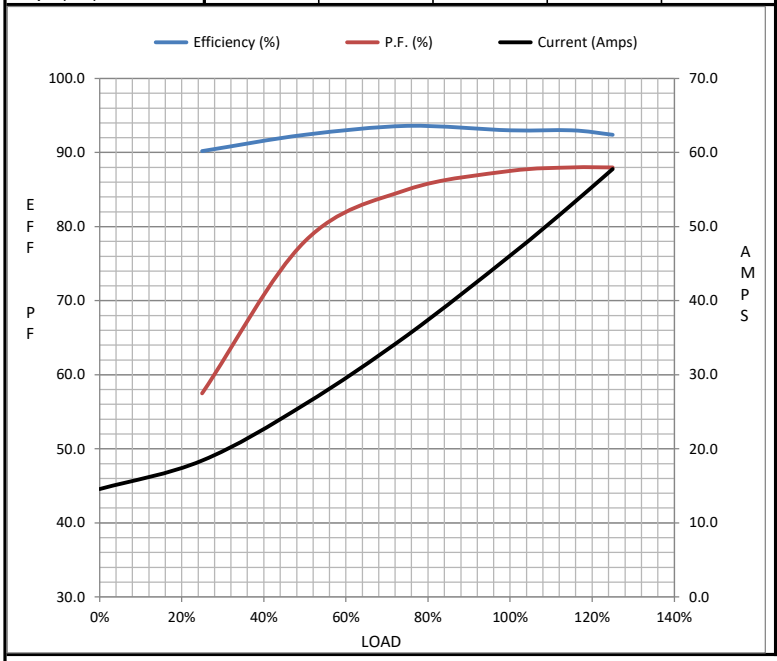
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	14.6	18.4	26.0	35.4	46.1	53.0	57.8	272	
Torque (ft-lb)	0.00	18.3	36.7	55.0	73.8	85.0	92.5	126	
RPM	3600	3592	3584	3575	3565	3,560	3555	0	
Efficiency (%)		90.2	92.4	93.6	93.0	93.0	92.4		
P.F. (%)	7.5	57.5	78.0	85.0	87.5	88.0	88.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3420	3565	3600
Current (Amps)	272	216	153	46.1	14.6
Torque (ft-lb)	126	106	178	73.8	0.00



Information Block

HP	50.0	
Sync. RPM	3600	
Frame	324	
Enclosure	DP	
Construction	TDB	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	35	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	4.8	Lb-Ft²
Ref Wdg	HA32002009 NONE	
Sound Pressure @ 1M	78	dBA
VFD Rating	CONSTANT 4:1/VARIABLE 20:1	
Outline Dwg	SS620812-100	
Conn. Diag	EE7300	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1510	0.0700	0.7530	0.8330	23.1880

Speed -Torque Curve

