marathon®

Close-Coupled Pump Motors

Model No: 324TTDBD6033
Catalog No: GT0573

Close-Coupled Pump Motor, 40 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 324JM Frame, DP

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Product Information Packet: Model No: 324TTDBD6033, Catalog No: GT0573 Close-Coupled Pump Motor, 40 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 324JM Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**40 Hp**
Output KW	**30.0 kW**	Voltage	**575 V**
Speed	**1780 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.15**	Frame	**324JM**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**94.1 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**38.0 A**
Power Factor	**83.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6312**
Opp Drive End Bearing Size	**6311**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

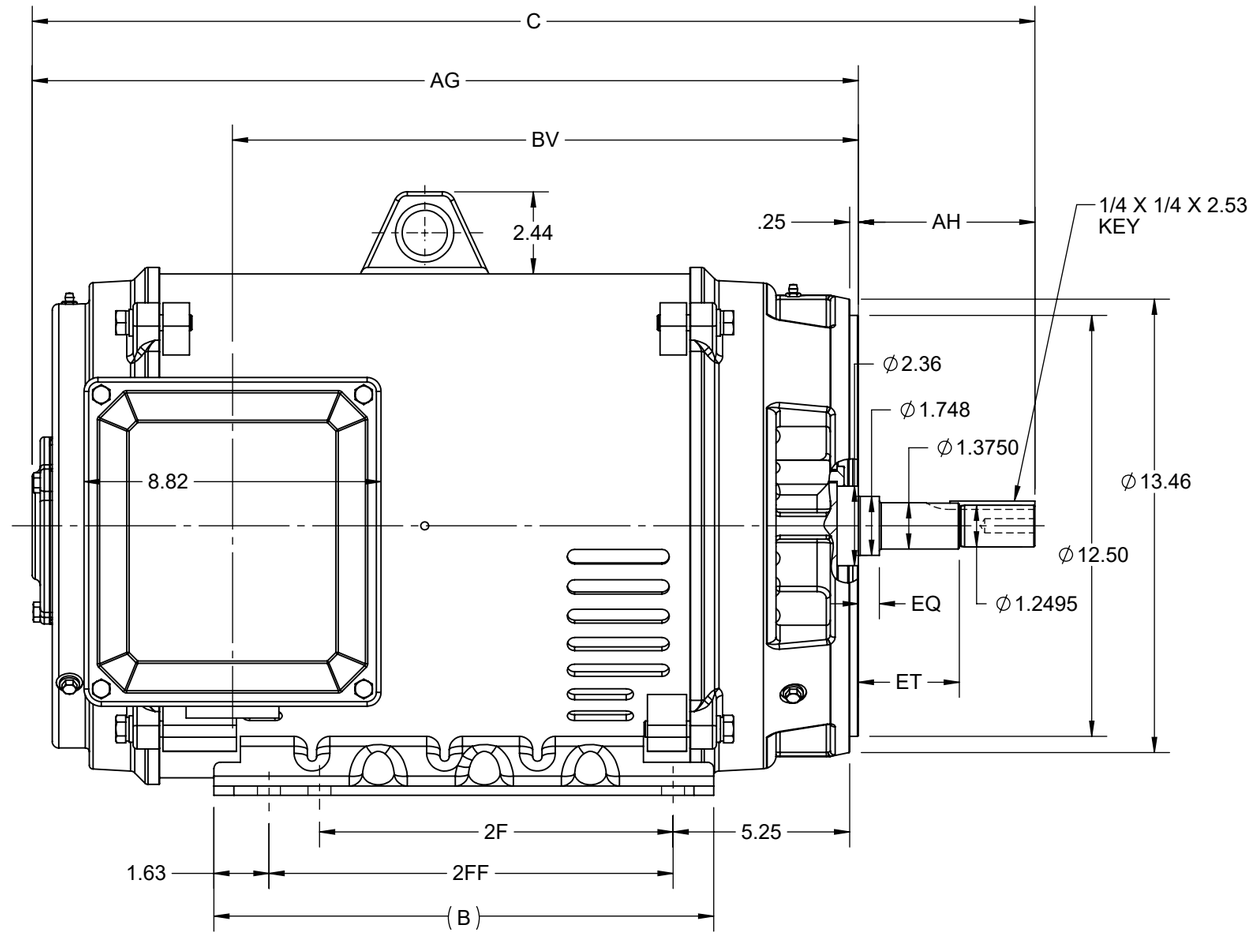
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.209 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**JM**	Overall Length	**28.94 in**
Frame Length	**14.56 in**	Shaft Diameter	**1.249 in**
Shaft Extension	**5.5 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 4:1/Variable 10:1**		

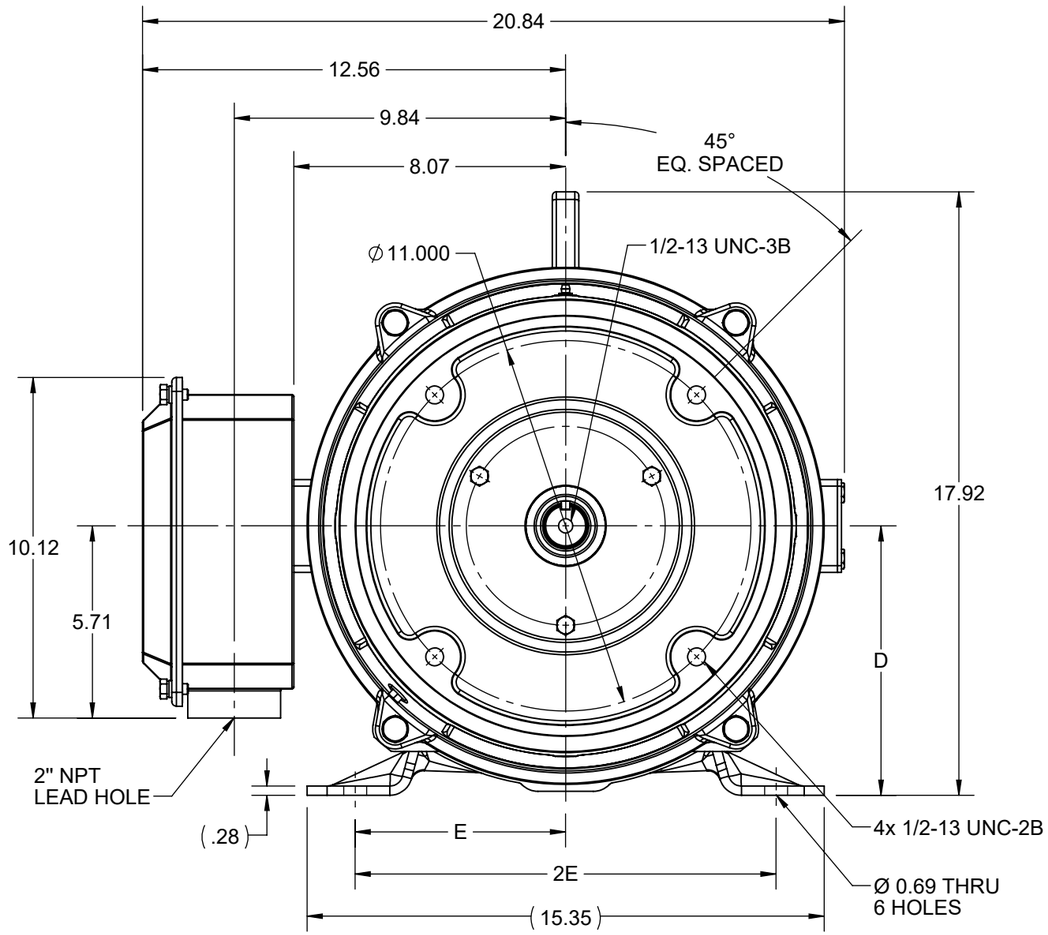
Drawings

Connection Drawing	**EE7300**	Outline Drawing	**SS620798-100**

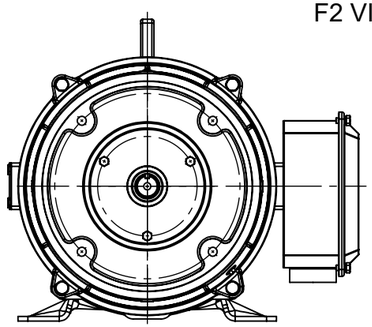
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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	14.85	28.59	8.00	6.25	12.50	10.50	12.00	23.35	5.25	17.40	0.63	3.00	F1 OR F2	324JM
200		29.78						24.53		18.58				326JM





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	CP	10/27/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0024536	VS	10/27/2025

REQUEST NUMBER DESCRIPTION
ADDED F2 MOUNTING PLATE

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DRAWN BY	XZ
DATE	25/02/2016
APPROVED BY	YW
DATE	25/02/2016
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
OUTLINE
324/326JM FR NEMA ODP RS

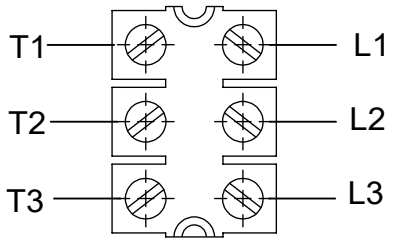
MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS620798	1 OF 1

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

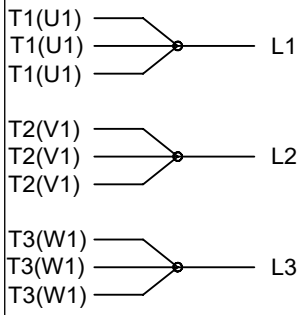
TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

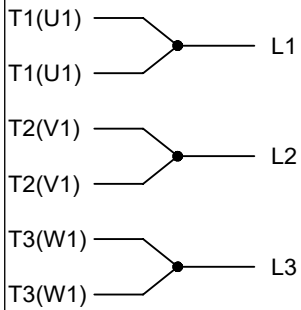


VIEW OF TERMINAL END

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	

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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

324TTDBD6033

Submittal

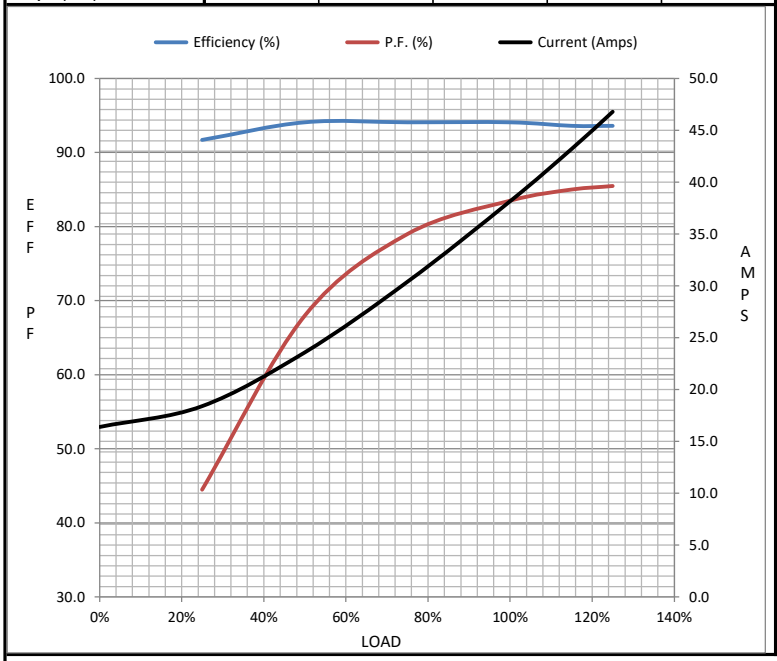
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	16.4	18.4	23.6	30.4	38.2	43.2	46.8	228	
Torque (ft-lb)	0.00	29.0	58.5	88.0	118	136	148	212	
RPM	1800	1795	1790	1785	1780	1,775	1775	0	
Efficiency (%)		91.7	94.1	94.1	94.1	93.6	93.6		
P.F. (%)	4.5	44.5	68.0	79.0	83.5	85.0	85.5	36.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1780	1800
Current (Amps)	228	180	128	38.2	16.4
Torque (ft-lb)	212	175	300	118	0.00



Information Block

HP	40.0	
Sync. RPM	1800	
Frame	324	
Enclosure	DP	
Construction	TDB	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	30	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	9.5	Lb-Ft²
Ref Wdg	HA32004019 NONE	
Sound Pressure @ 1M	75	dBA
VFD Rating	CONSTANT 4:1/VARIABLE 20:1	
Outline Dwg	SS620798-100	
Conn. Diag	EE7300	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1880	0.1000	0.8420	0.9970	20.6050

Speed -Torque Curve

