marathon®

Close-Coupled Pump Motors

Model No: 324TTDBD6032
Catalog No: GT0473

Close-Coupled Pump Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 324JM Frame, DP

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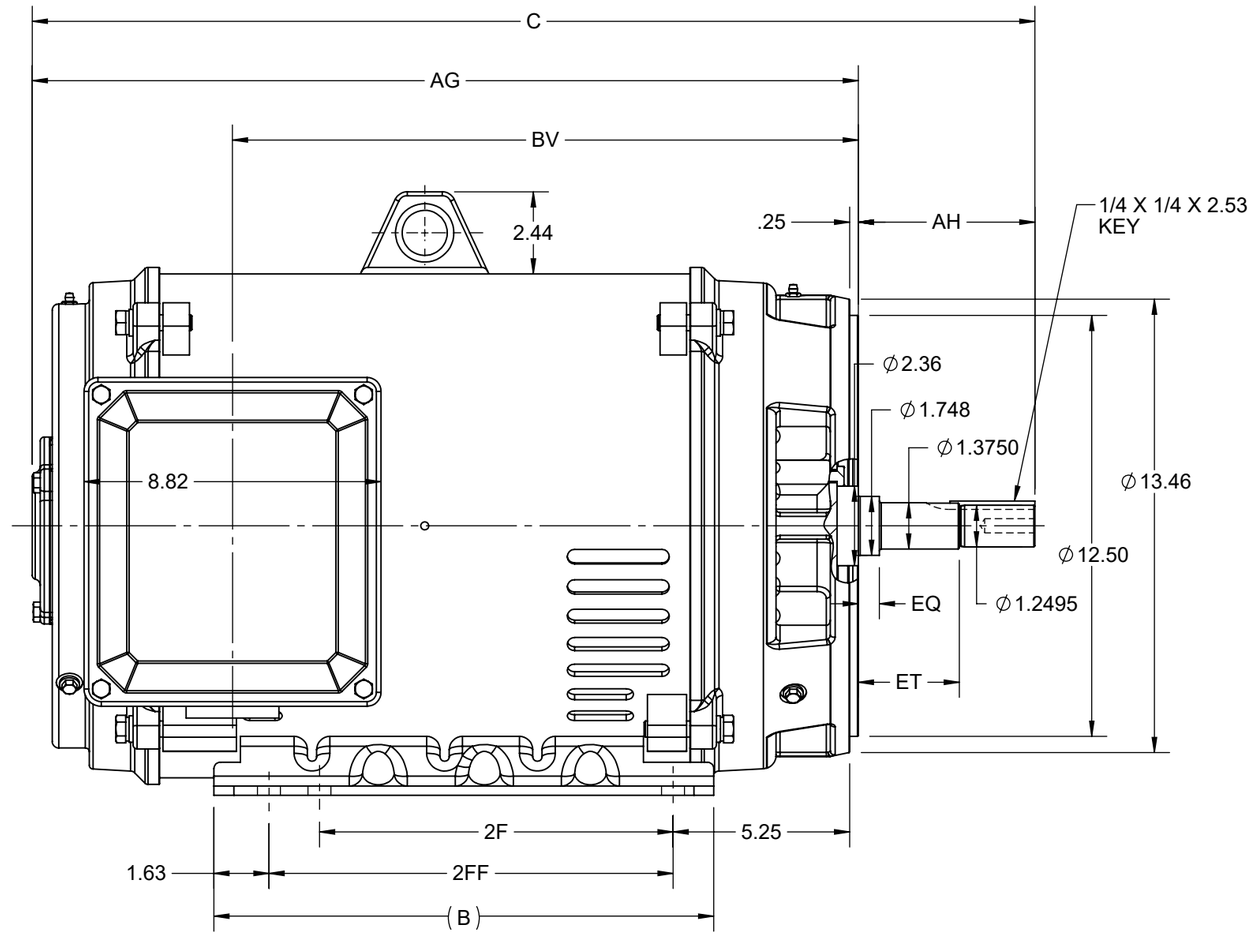
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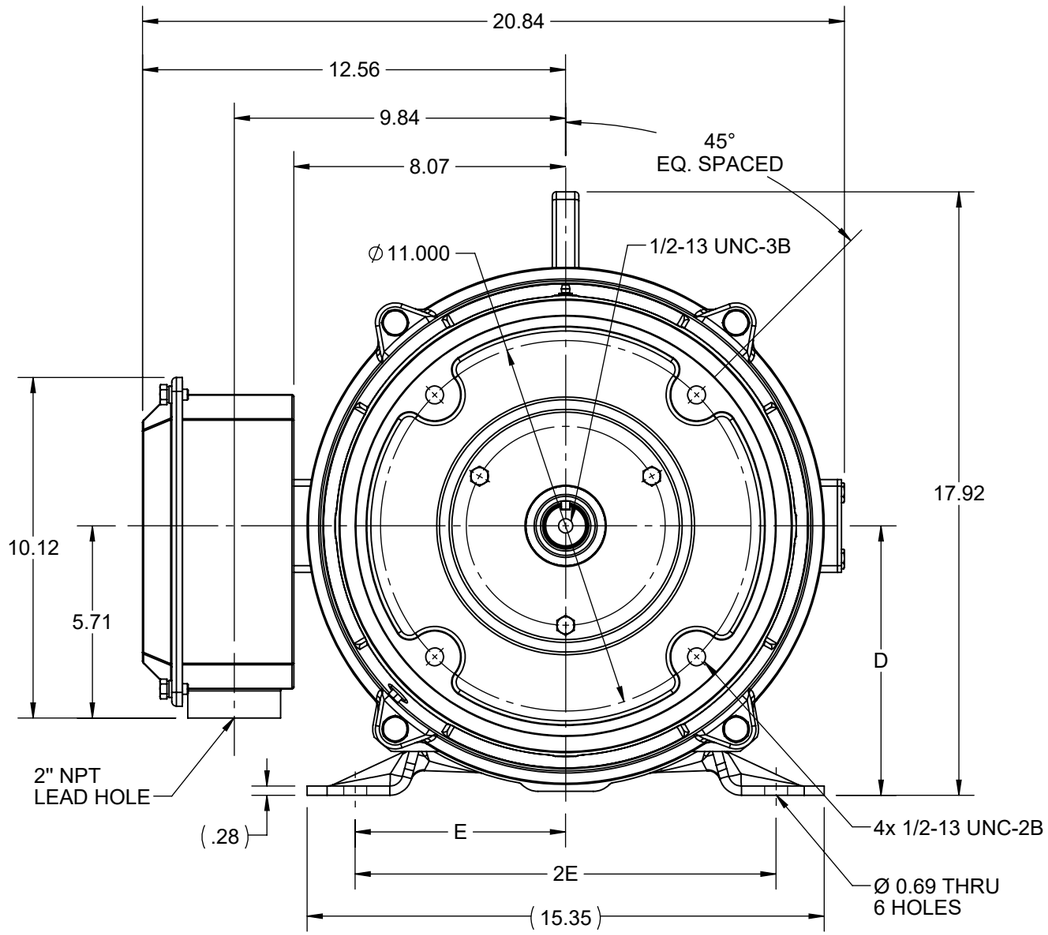
Product Information Packet: Model No: 324TTDBD6032, Catalog No: GT0473 Close-Coupled Pump Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 324JM Frame, DP

Nameplate Specifications			
Phase	**3**	Output HP	**40 & 30 Hp**
Output KW	**30.0 & 22.4 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1780 & 1482 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**324JM**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**94.1 & 93.6 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**95.5/47.5 & 87.5/43.5 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	**Part Wdg Start Low Volt Only & Wye Start Delta Run 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	**EE7308AA**	Outline Drawing	**SS620798-100**

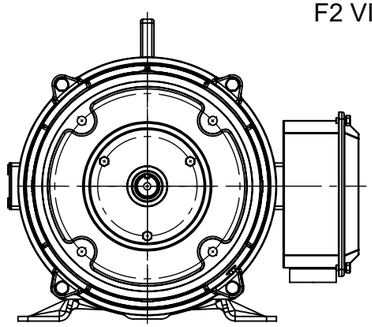
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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	14.85	28.59	8.00	6.25	12.50	10.50	12.00	23.35	5.25	17.40	0.63	3.00	F1 OR F2	324JM
200		29.78						24.53		18.58				326JM





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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ARE FOR REFERENCE ONLY

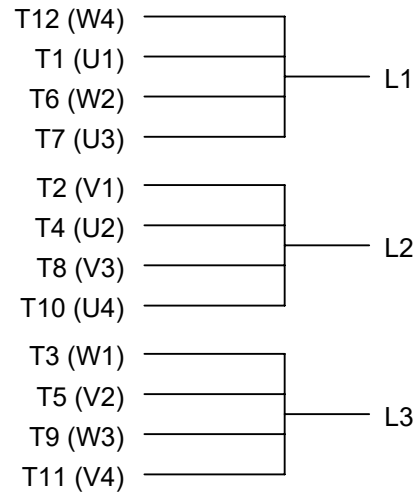
DRAWN BY	XZ
DATE	25/02/2016
APPROVED BY	YW
DATE	25/02/2016
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

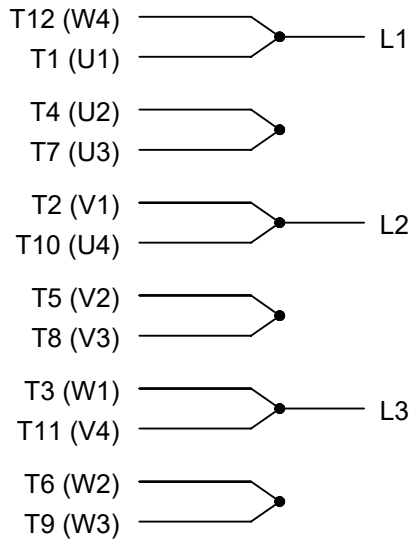
DESCRIPTION
OUTLINE
324/326JM FR NEMA ODP RS

MATERIAL | PROCESS/FINISH

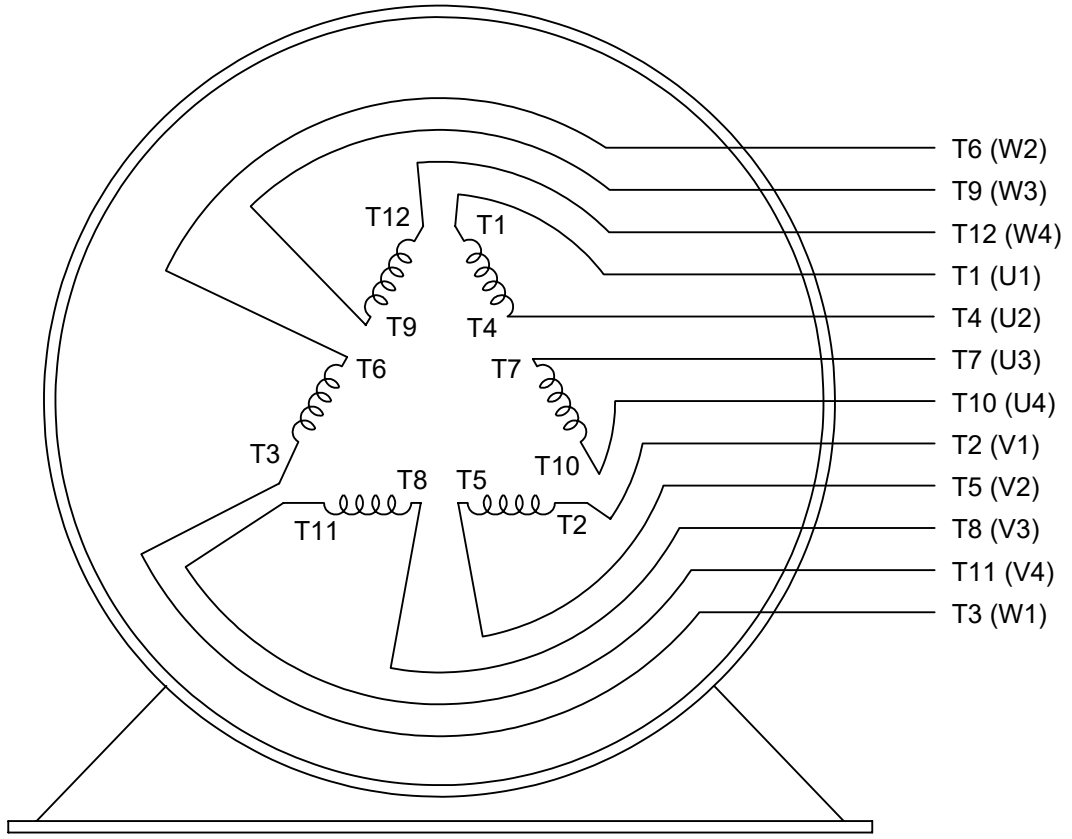
SIZE	DRAWING NUMBER	SHEET
B	SS620798	1 OF 1



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: 12/2/2021

Customer:

Attention:

Submitted by:

marathon® Motors

324TTDBD6032

Submittal

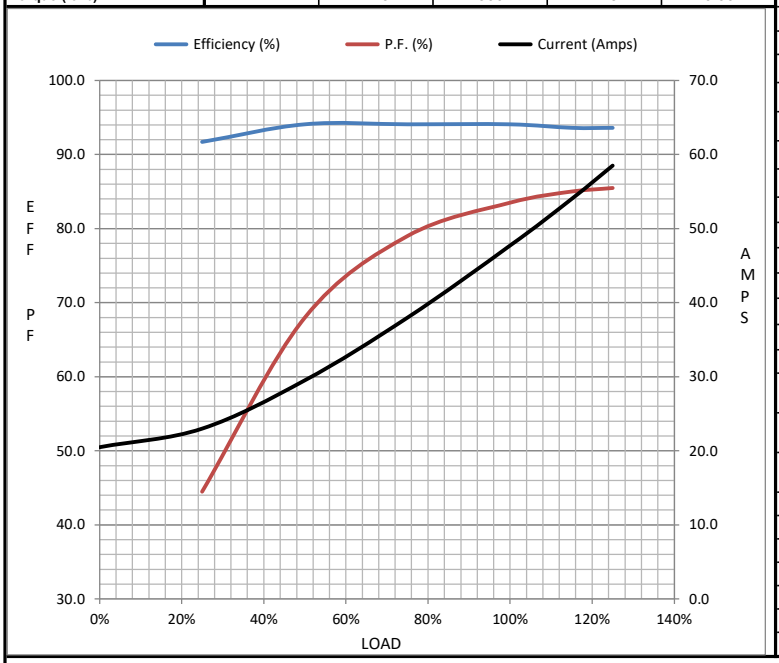
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	20.5	23.0	29.5	38.0	47.7	54.0	58.5	285	
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)	285	225	160	47.7	20.5
Torque (ft-lb)	212	175	300	118	0.00



Information Block

HP	40.0
Sync. RPM	1800
Frame	324
Enclosure	DP
Construction	TDB
Voltage	208-230/460#190/380 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	EE7308AA
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1210	0.0640	0.5390	0.6380	13.1870

Speed -Torque Curve

