

Fire Pump Motors

Model No: 324TSTD4010

Catalog No: U512A

Fire Pump Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 324TS Frame, DP

Product Information Packet: Model No: 324TSTDCD4010, Catalog No: U512A Fire Pump Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 324TS Frame, DP

Nameplate Specifications

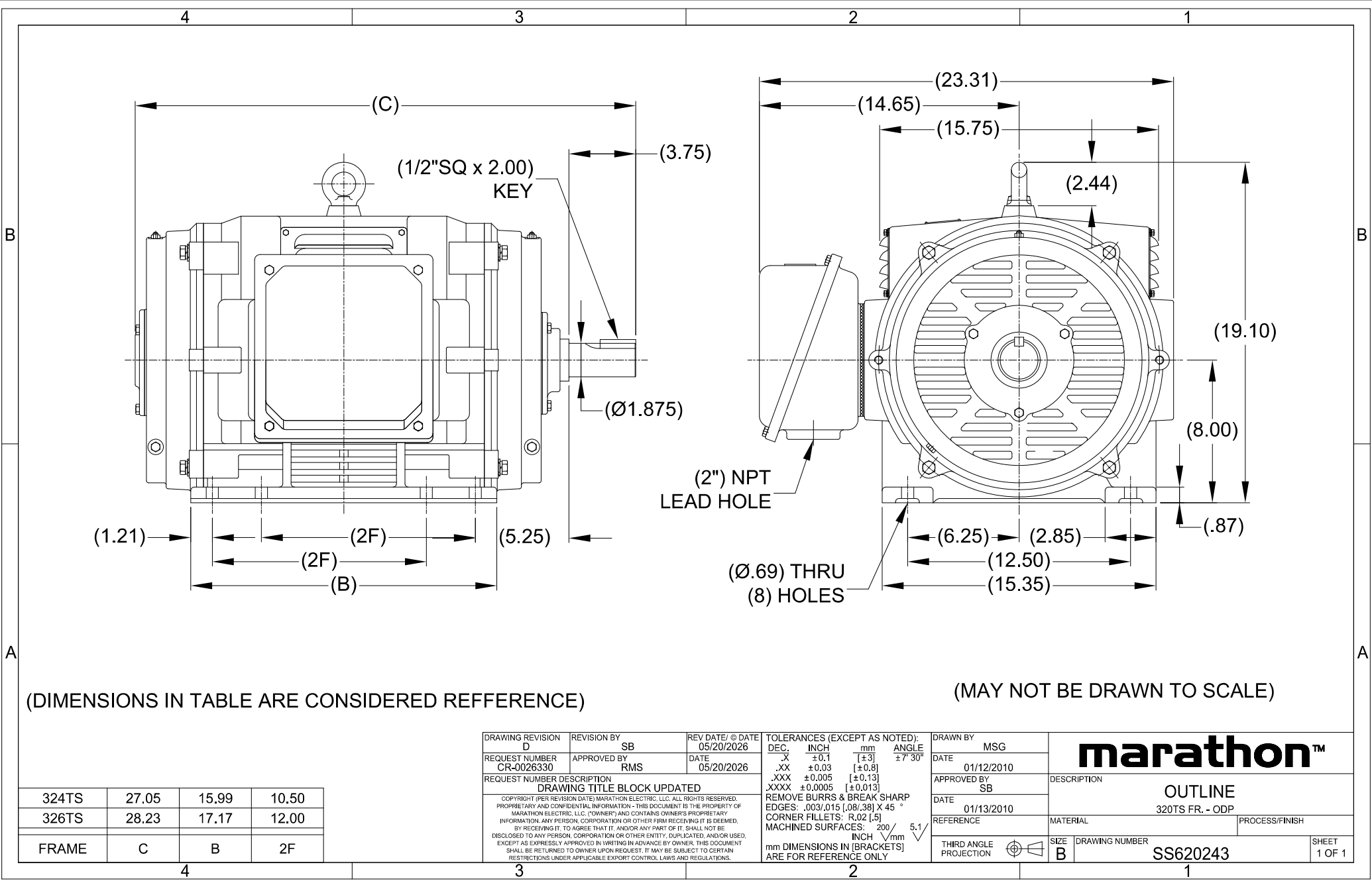
Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	230/460 & 190/380 V
Speed	3565 & 2965 r/min	Synchronous RPM	3600 & 3000 r/min
Service Factor	1.15 & 1.15	Frame	324TS
Enclosure	Drip Proof	Thermal Protection	No Protection
Efficiency	92.4 & 91.7 %	Ambient Temperature	50 °C
Frequency	60 & 50 Hz	Current	114/57 & 110/55 A
Power Factor	88	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Drive End Bearing Size	6212
Opp Drive End Bearing Size	6212	UL	Listed
CSA	Y	CE	Y
IP Code	23	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.175 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	27.05 in
Frame Length	9.06 in	Shaft Diameter	1 7/8 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 Capable

Drawings

Connection Drawing	EE7308AA	Outline Drawing	SS620243
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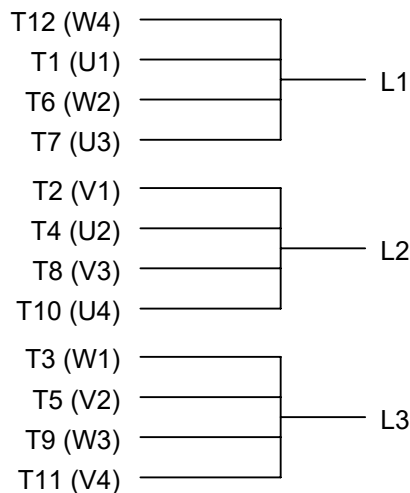
324TS	27.05	15.99	10.50
326TS	28.23	17.17	12.00
FRAME	C	B	2F

DRAWING REVISION D	REVISION BY SB	REV DATE/ © DATE 05/20/2026
REQUEST NUMBER CR-0026330	APPROVED BY RMS	DATE 05/20/2026
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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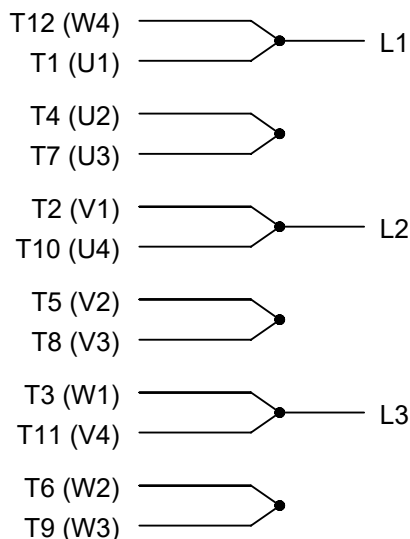
TOLERANCES (EXCEPT AS NOTED):
DEC. INCH mm ANGLE
.X ±0.1 [±3]
.XX ±0.03 [±0.8]
.XXX ±0.005 [±0.13]
.XXXX ±0.0005 [±0.013]
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200/5.1
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY MSG
DATE 01/12/2010
APPROVED BY SB
DATE 01/13/2010
REFERENCE
THIRD ANGLE PROJECTION

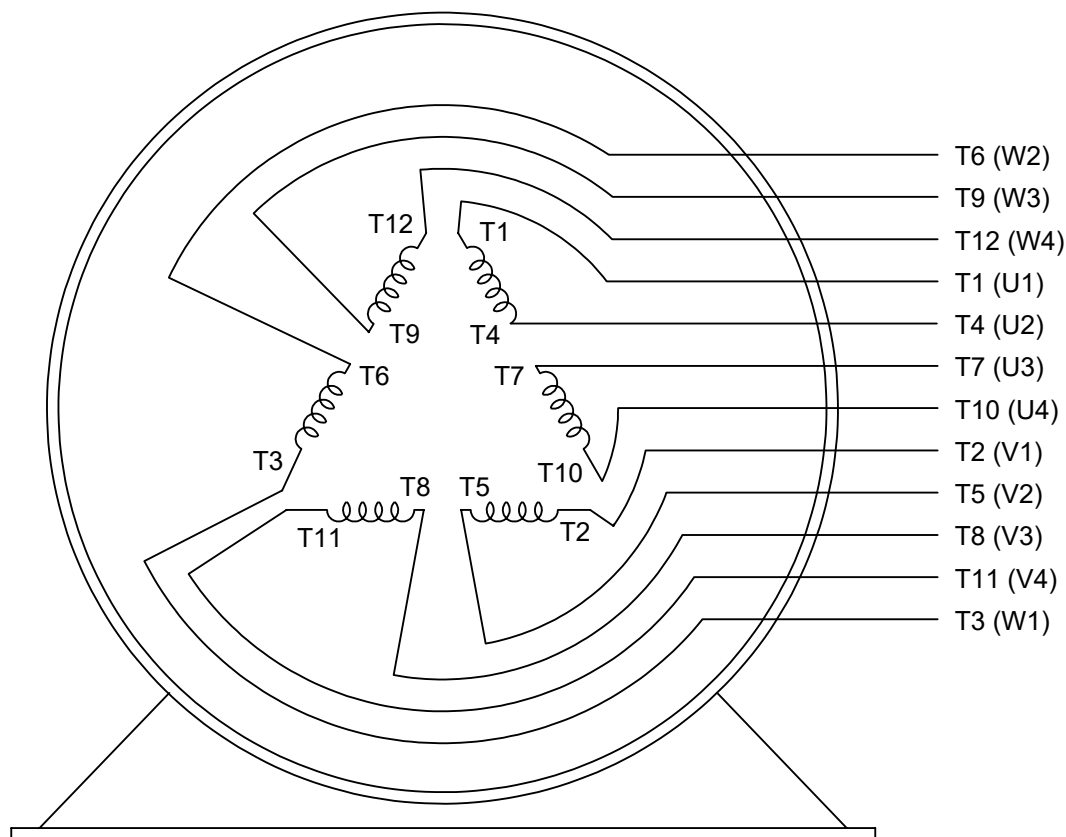
marathon™	
DESCRIPTION OUTLINE 320TS FR. - ODP	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS620243
SHEET 1 OF 1	



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

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

DRAWN BY LZ			
DATE 01-12-1994			
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL		
DATE 01-14-1994	3Ø-2/1 DELTA-12 LEADS		
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308AA	SHEET 1 OF 1

Data Sheet

Date: 12/12/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



324TSTD4010

Submittal

Data @ 460 V

Motor Load Data

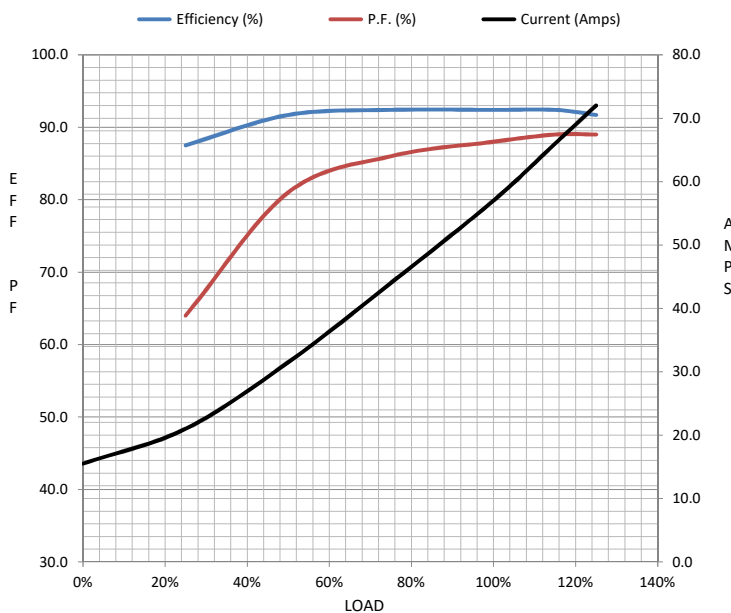
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	15.5	21.0	31.5	44.0	57.0	66.0	72.0	330	
Torque (ft-lb)	0.00	18.5	36.5	55.0	73.5	85.0	92.5	110	
RPM	3600	3592	3585	3575	3565	3560	3555	0	
Efficiency (%)		87.5	91.7	92.4	92.4	92.4	91.7		
P.F. (%)	8.0	64.0	81.0	86.0	88.0	89.0	89.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3565	3600
Current (Amps)	330	300	185	57.0	15.5
Torque (ft-lb)	110	90.0	170	73.5	0.00

Information Block

HP	50.0			
Sync. RPM	3600			
Frame	324			
Enclosure	DP			
Construction	TDC			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	IE3L2002110 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	SS620744			
Conn. Diag	EE7308AA			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1050	0.0050	0.4480	0.5330	17.0040



Speed -Torque Curve

