marathon®

Close-Coupled Pump Motors

Model No: 254TTDBD6032
Catalog No: GT0459

Close-Coupled Pump Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 254JM Frame, DP

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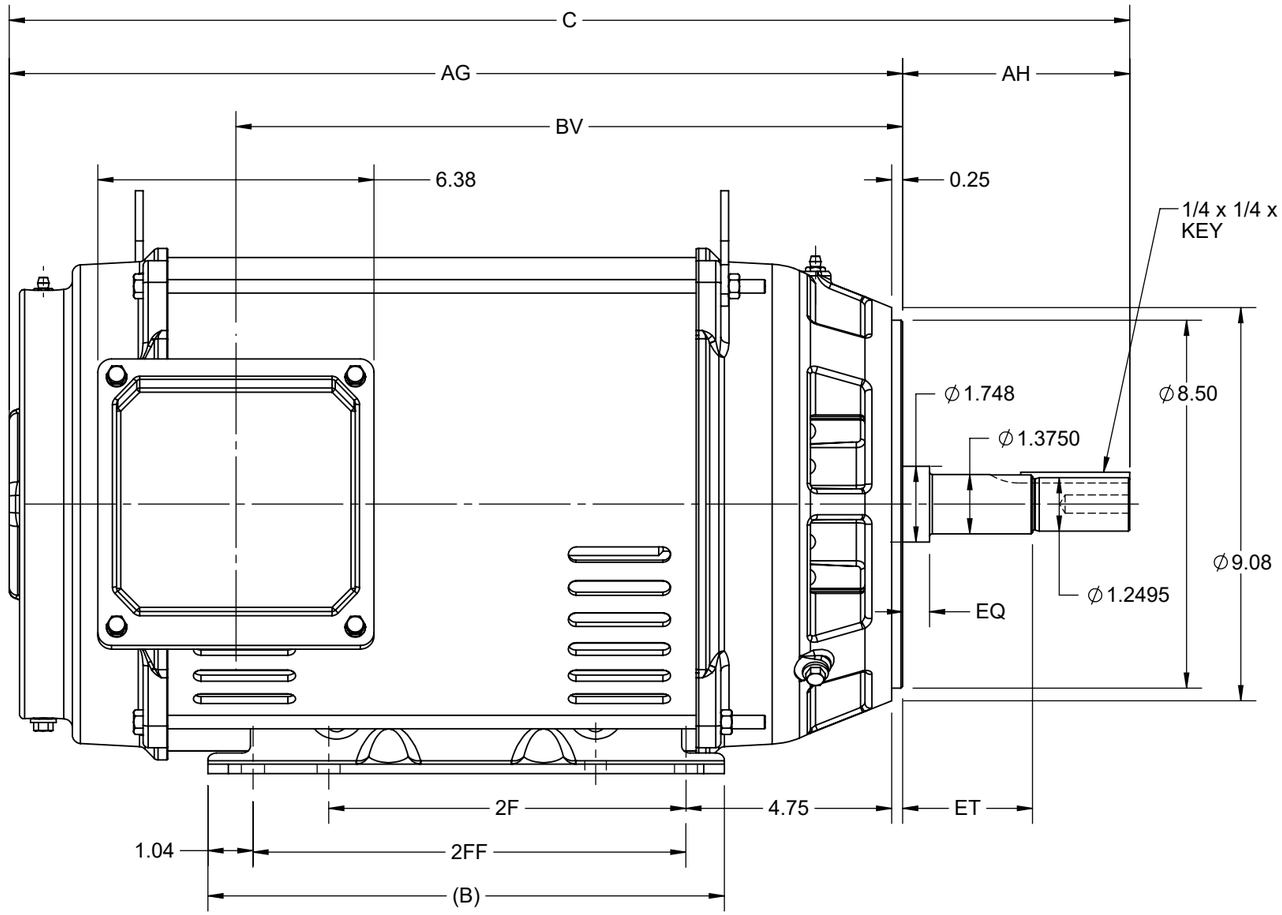
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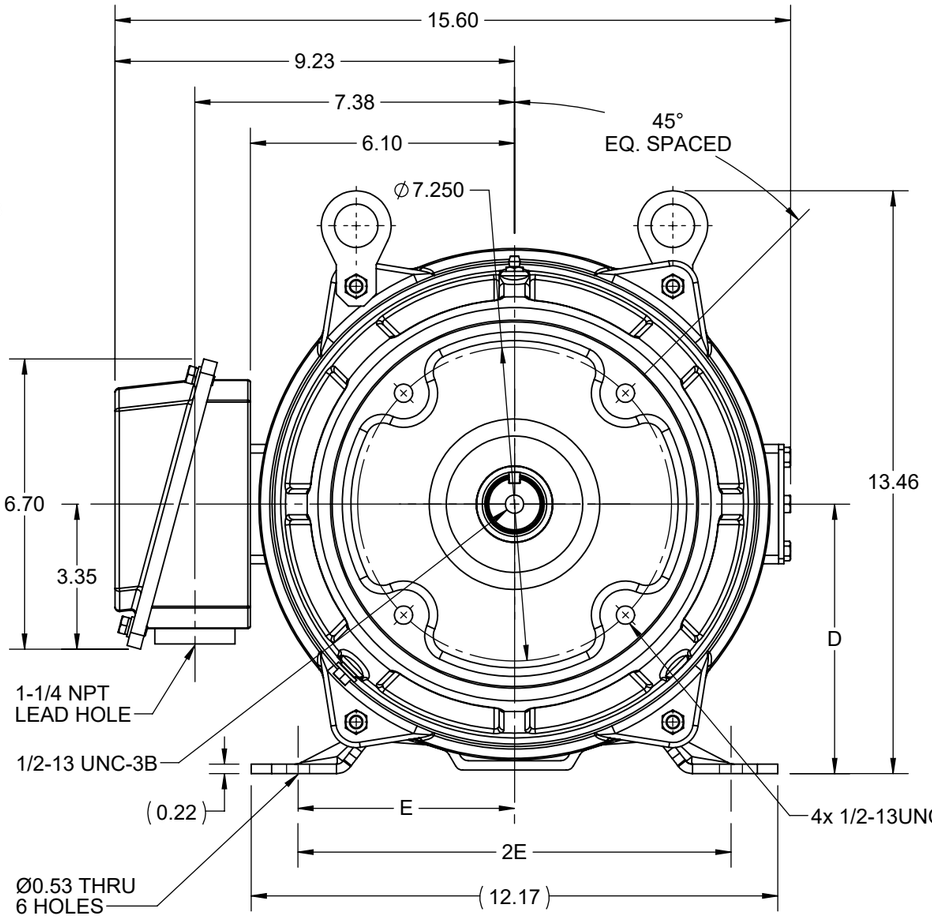
Product Information Packet: Model No: 254TTDBD6032, Catalog No: GT0459 Close-Coupled Pump Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 254JM Frame, DP

Nameplate Specifications			
Phase	**3**	Output HP	**15 & 10 Hp**
Output KW	**11.2 & 7.5 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1774 & 1478 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**254JM**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**93 & 92.3 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**37.5/18.8 & 32/16 A**
Power Factor	**81**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6208**	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	**.6729 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	**24.41 in**
Frame Length	**10.62 in**	Shaft Diameter	**1.249 in**
Shaft Extension	**5.5 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 2:1/Variable 10:1**		
Drawings			
Connection Drawing	**EE7308K**	Outline Drawing	**SS620822-100**

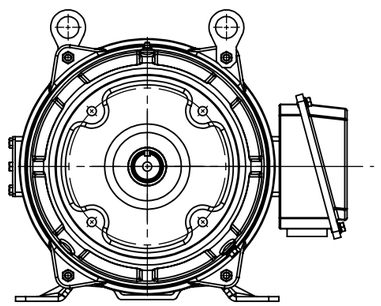
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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	11.93	24.31	6.25	5.00	10.00	8.25	10.00	19.06	5.248	13.82	0.63	3.00	F1 OR F2	254JM
200		25.88						20.63		15.40				256JM





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
E	MN	07/10/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023491	VS	07/10/2025

REQUEST NUMBER DESCRIPTION
F2 MOUNTING PLATE ADDED

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

DRAWN BY	
VS	
DATE	
12-02-2021	
APPROVED BY	
GNK	
DATE	
12-02-2021	
REFERENCE	

THIRD ANGLE PROJECTION

marathon™

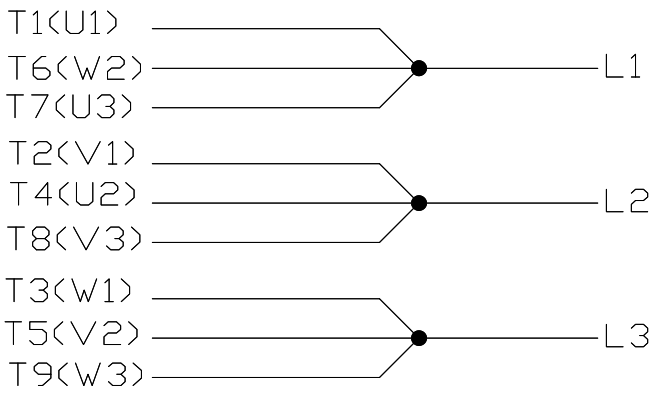
DESCRIPTION
OUTLINE
254/256JM FR NEMA ODP RS

MATERIAL	PROCESS/FINISH

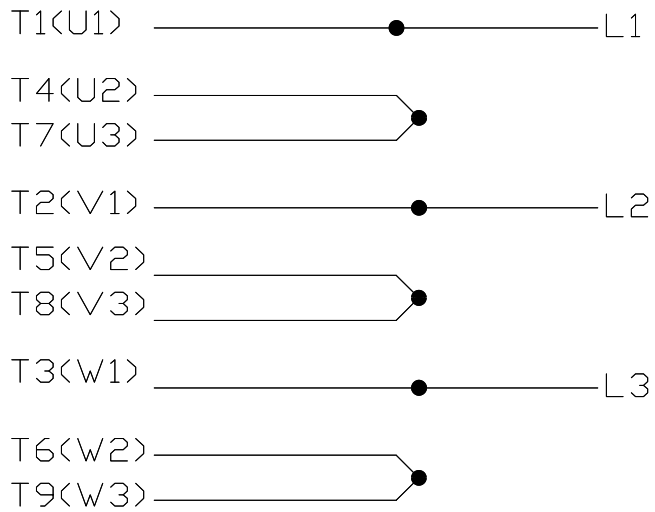
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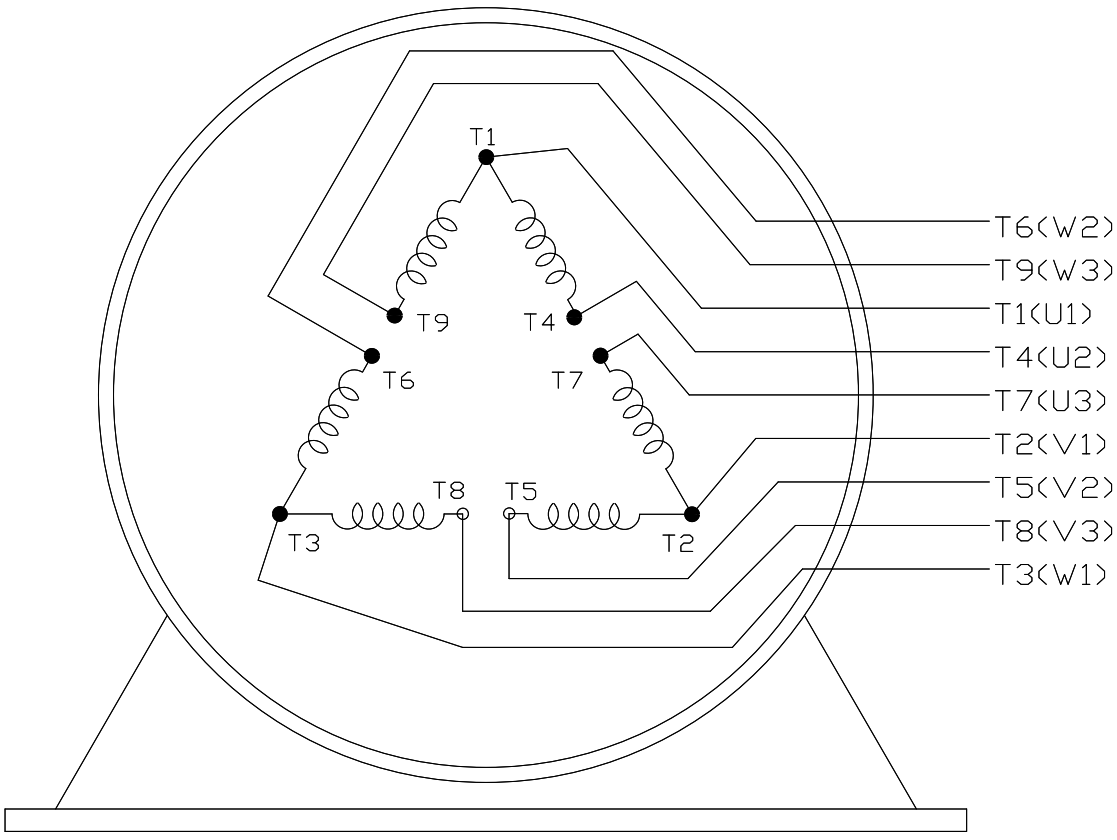
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LOW VOLTAGE



HIGH VOLTAGE





VIEW OF TERMINAL END

DRAWING REVISION: F	REVISION BY: SB	REV DATE/ © DATE: 08/01/2025	DRAWN BY: PGK	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025	DATE: 06/04/1997	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED			APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL DELTA CON. - 3ø - 9 LEADS
			DATE: 06/15/1997	
			REFERENCE	MATERIAL / PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7308K / SHEET: 1 OF 1

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

Data Sheet

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

marathon® Motors

254TTDBD6032

Submittal

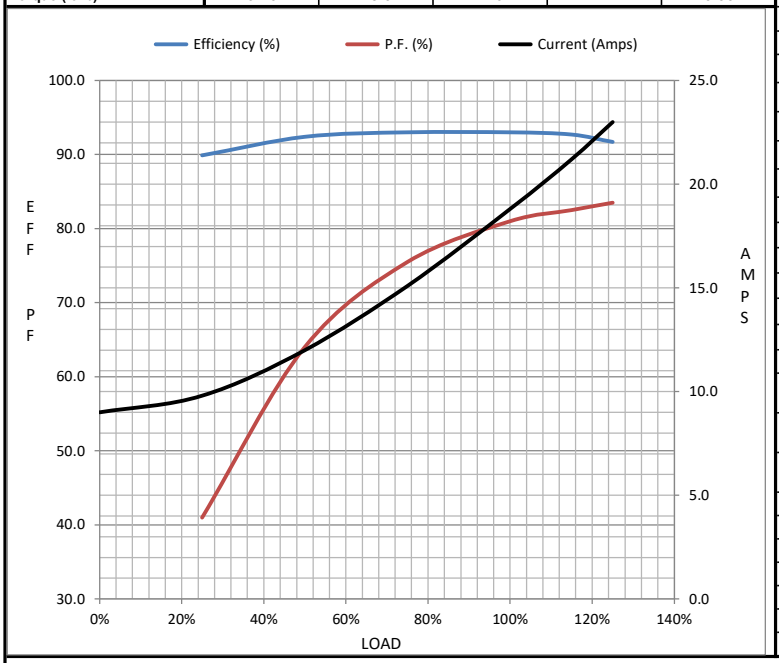
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.0	9.8	12.0	15.1	18.8	21.2	23.0	115	
Torque (ft-lb)	0.00	11.0	22.0	33.2	44.4	51.2	55.8	91.0	
RPM	1800	1792	1788	1780	1774	1,768	1765	0	
Efficiency (%)		89.9	92.4	93.0	93.0	92.7	91.7		
P.F. (%)	5.0	41.0	64.0	75.5	81.0	82.5	83.5	42.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1628	1774	1800
Current (Amps)	115	105	73.5	18.8	9.0
Torque (ft-lb)	91.0	78.0	119	44.4	0.00



Information Block

HP	15.0
Sync. RPM	1800
Frame	254
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	40 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk²	2.30 Lb-Ft²
Ref Wdg	HA31604021 NONE
Sound Pressure @ 1M	74 dBA
VFD Rating	CONSTANT 2:1/VARIABLE 20:1
Outline Dwg	SS620822-100
Conn. Diag	EE7308K
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.4120	0.2340	1.3440	1.4530	30.4670

Speed -Torque Curve

