marathon®

Close-Coupled Pump Motors

Model No: 254TTDBD6082
Catalog No: GT0457

Close-Coupled Pump Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 RPM, 254JM Frame, DP

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Product Information Packet: Model No: 254TTDBD6082, Catalog No: GT0457 Close-Coupled Pump Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 RPM, 254JM Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**7.50 & 5 Hp**
Output KW	**5.6 & 3.7 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1182 & 984 r/min**	Synchronous RPM	**1200 & 1000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**254JM**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**90.2 & 89.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**20.2/10.1 & 17.6/8.8 A**
Power Factor	**77**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**H**	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

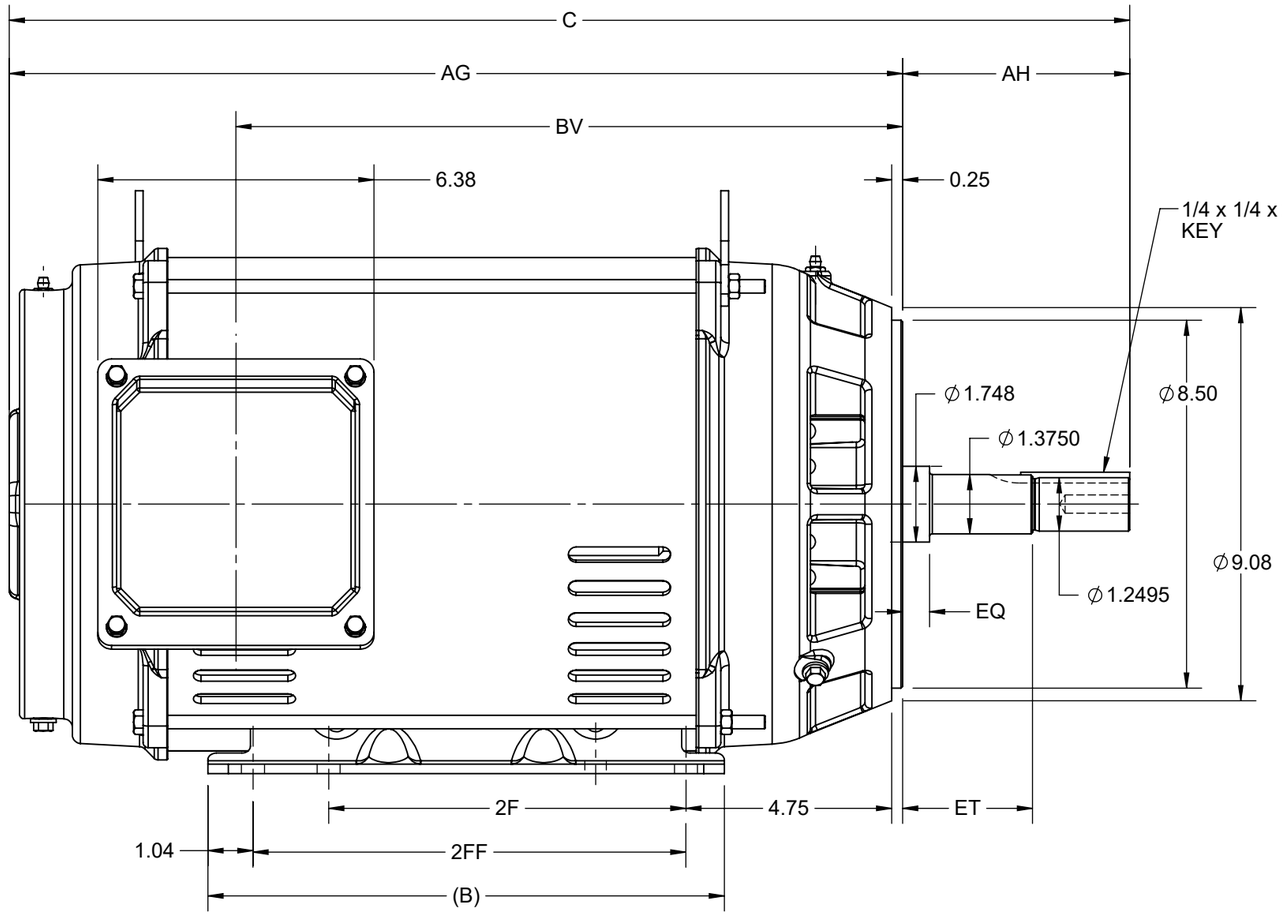
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**1.659 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft 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 10:1/Variable 10:1**		

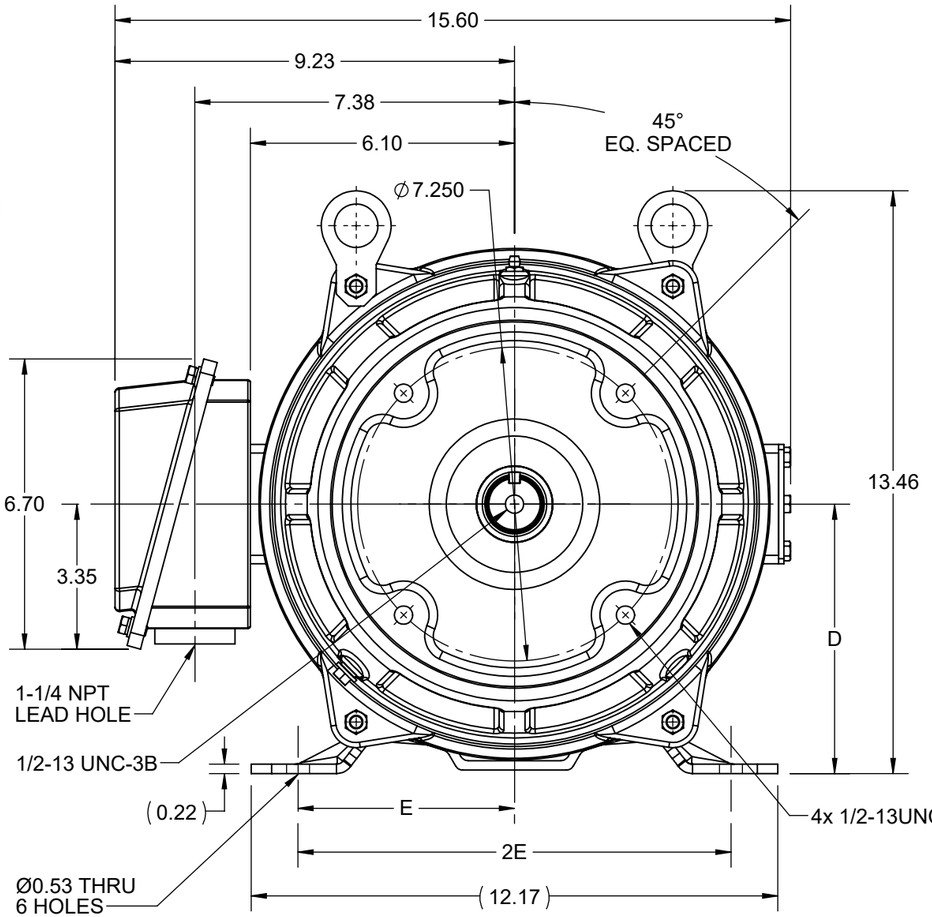
Drawings

Connection Drawing	**EE7308K**	Outline Drawing	**SS620822-100**

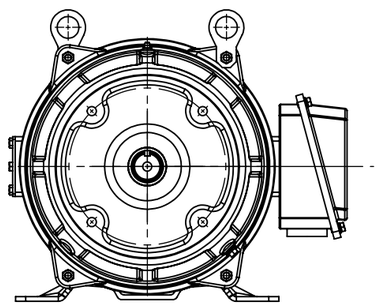
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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	11.93	24.31	6.25	5.00	10.00	8.25	10.00	19.06	5.248	13.82	0.63	3.00	F1 OR F2	254JM
200		25.88						20.63		15.40				256JM





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™

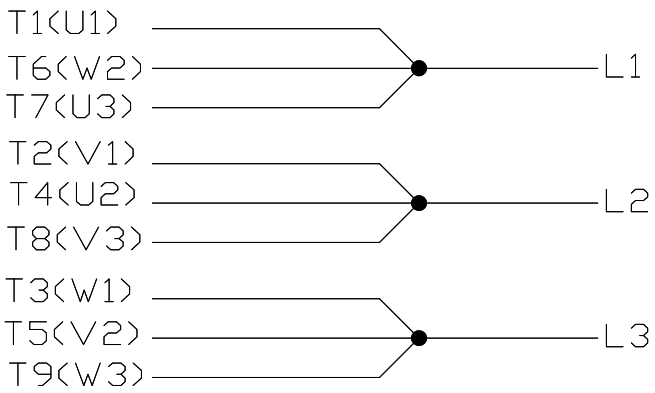
DESCRIPTION
OUTLINE
254/256JM FR NEMA ODP RS

MATERIAL	PROCESS/FINISH

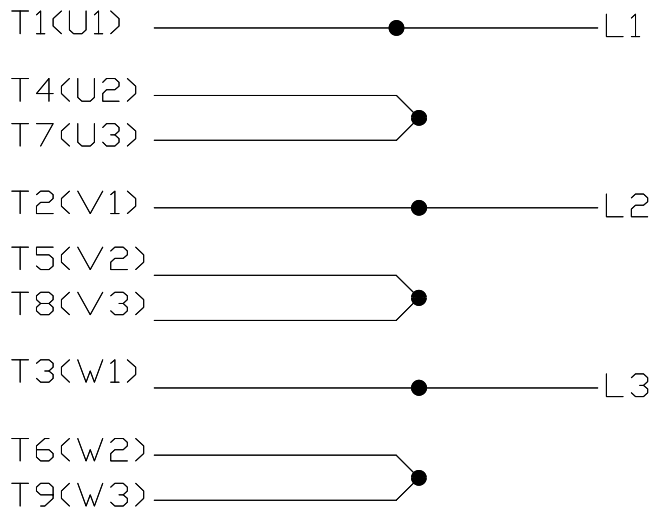
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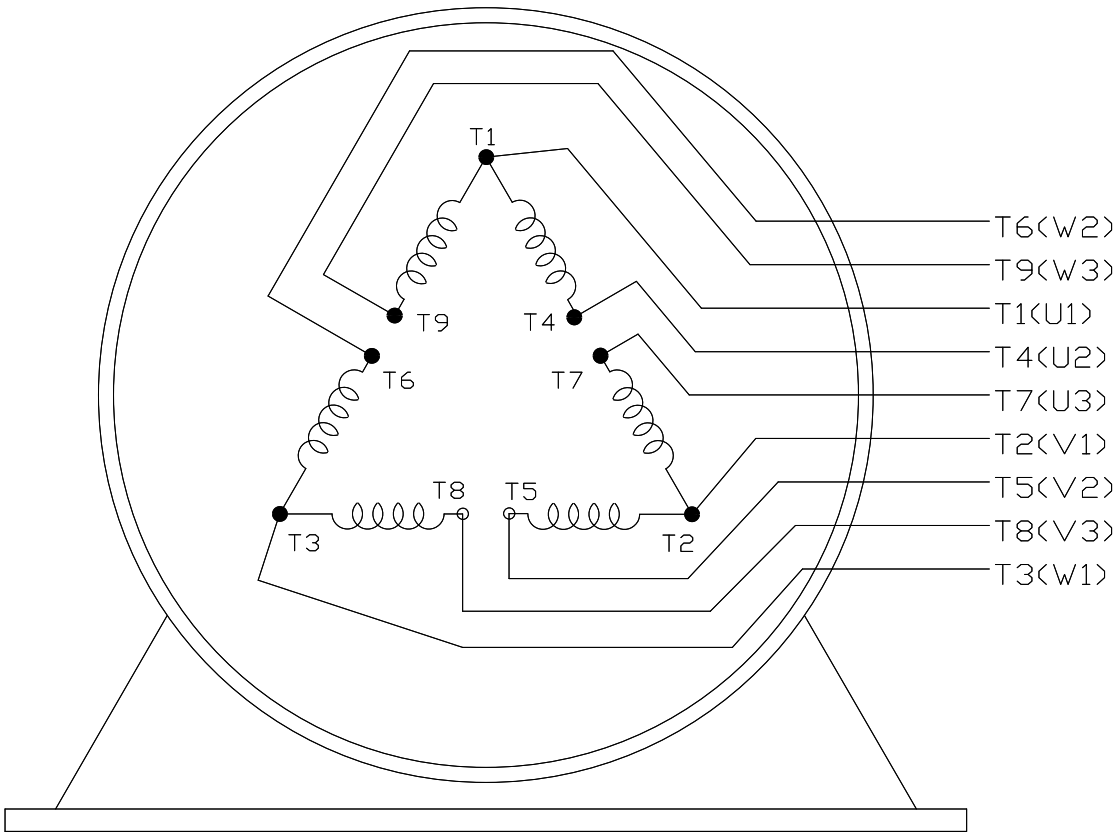
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LOW VOLTAGE



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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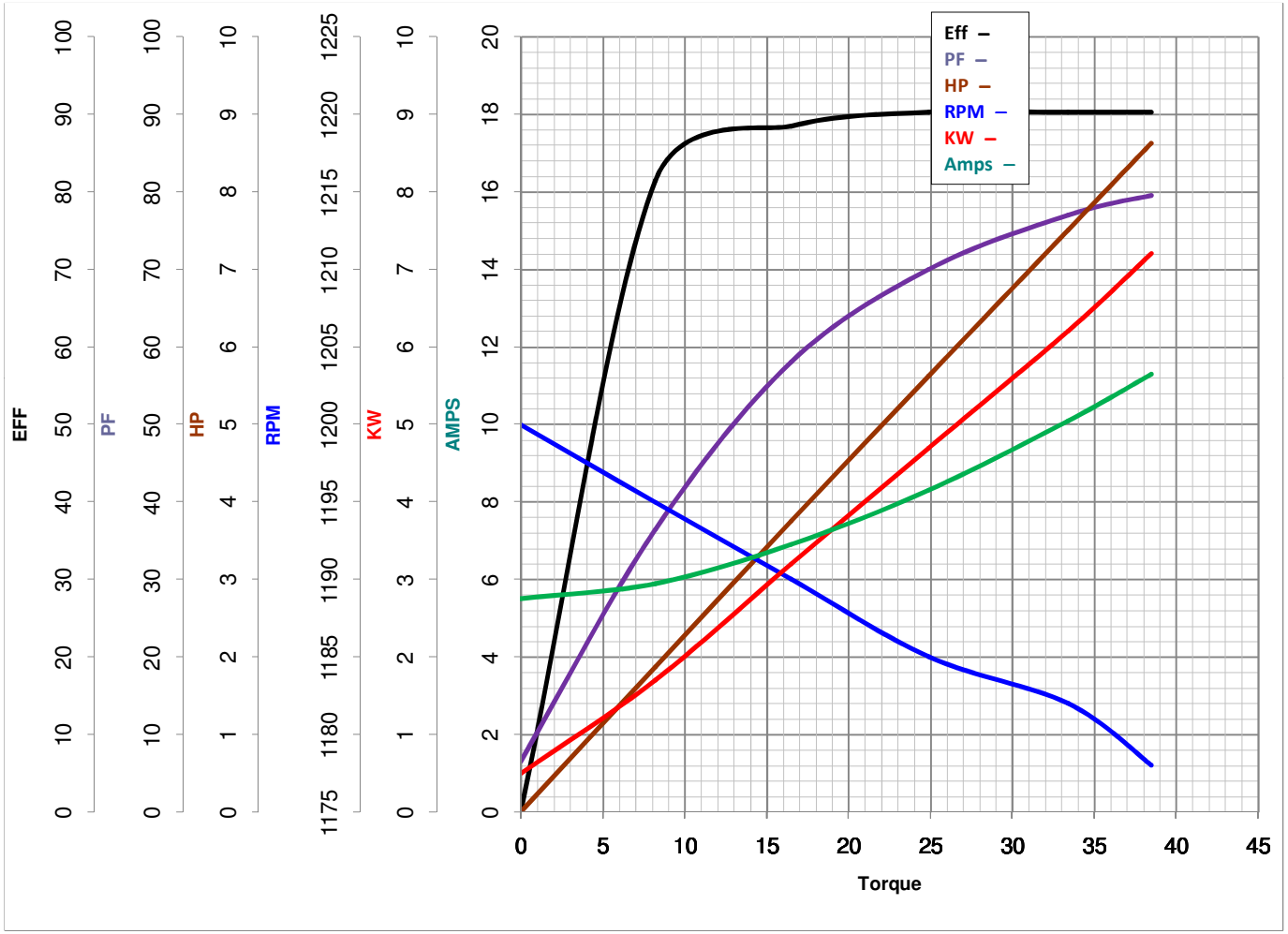
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mm DIMENSIONS IN [BRACKETS]
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MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer		**Curve at**	460	**Volts**	**HP** 7.5&5	**PHASE**	3
			60	**HZ**			
Model No 254TTDBD6082			7.5	**HP**	**VOLTS** 230/460&190/380		
Catalog No GT0457					**HZ** 60&50	**RPM**	1182&984



Torque in Lb.Ft

FL TORQUE	33.4	**Lb.Ft**	**FL AMPS**	20.2/10.1	
BD TORQUE	85.0	**Lb.Ft**	**PU TORQUE**	56.0	**Lb.Ft**
LR TORQUE	66	**Lb.Ft**	**LR AMPS**	60	
WINDING	HE31606009-2	**Prepared By**	FAREEDA	**Date**	5/4/2018