marathon®

Close-Coupled Pump Motors

Model No: 254TTDBD6012
Catalog No: GT2461

Close-Coupled Pump Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 254JP Frame, DP

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Product Information Packet: Model No: 254TTDBD6012, Catalog No: GT2461 Close-Coupled Pump Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 254JP Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**20 & 15 Hp**
Output KW	**14.9 & 11.2 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3552 & 2958 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**254JP**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**91 & 91.2 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**48/24 & 45/22.5 A**
Power Factor	**85.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	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

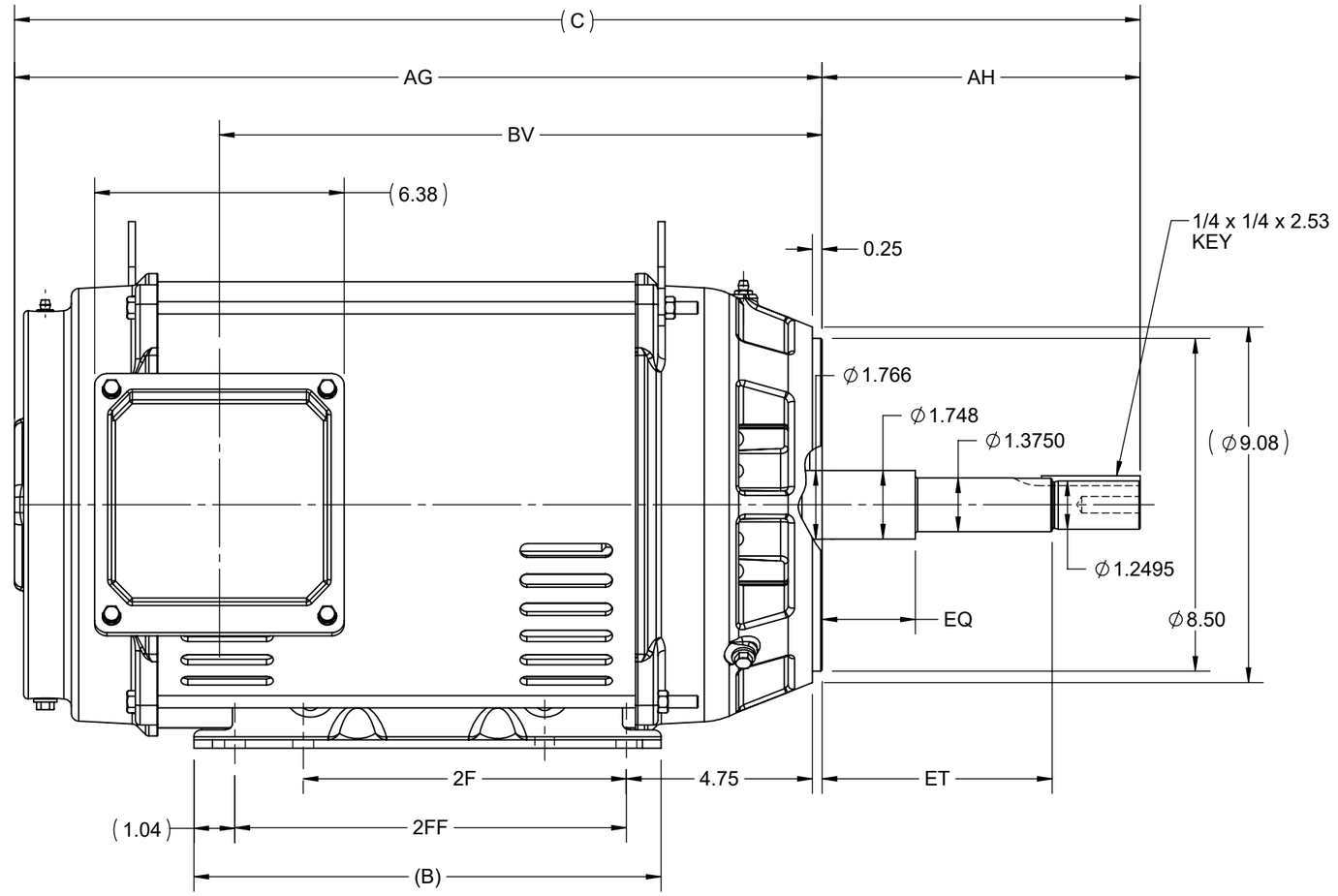
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.64 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**JP**	Overall Length	**27.32 in**
Frame Length	**10.62 in**	Shaft Diameter	**1.249 in**
Shaft Extension	**8.41 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 2:1/Variable 10:1**		

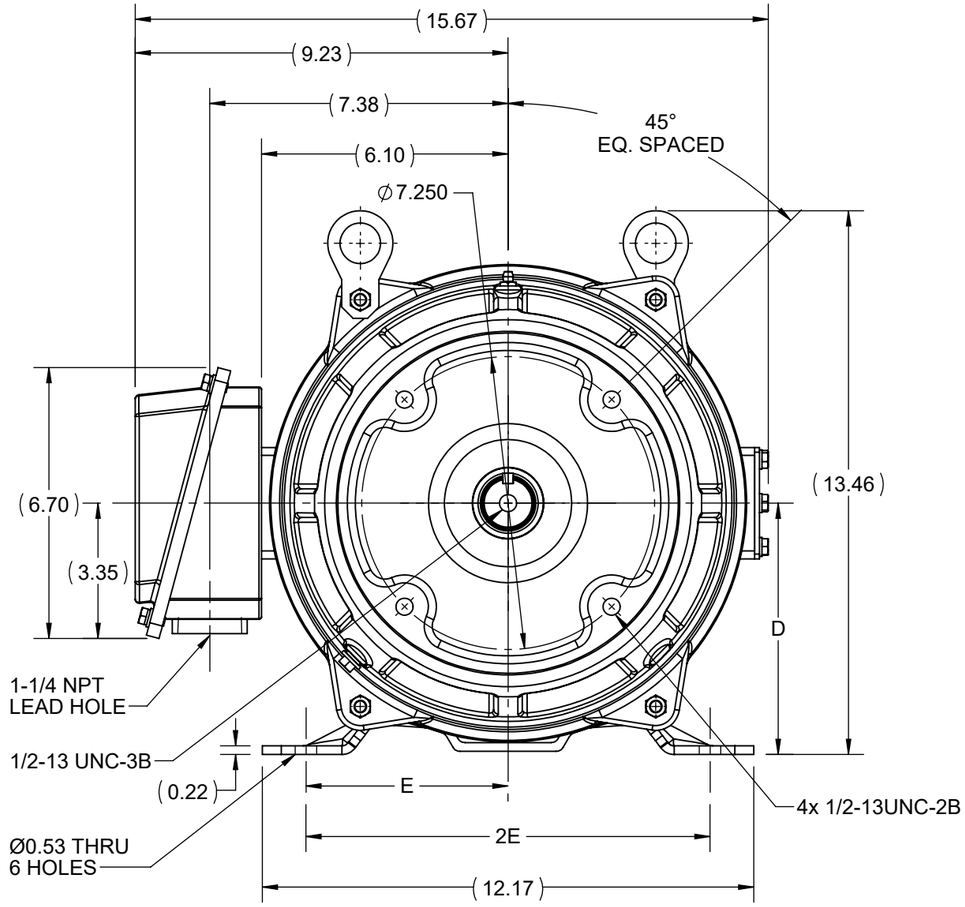
Drawings

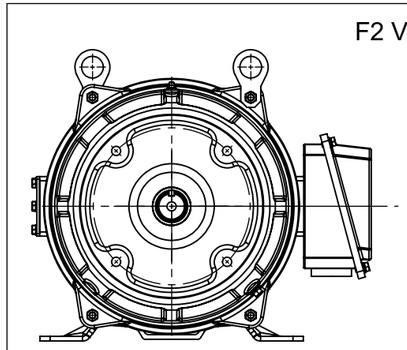
Connection Drawing	**EE7308K**	Outline Drawing	**SS620825-100**

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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	11.93	27.18	6.25	5.00	10.00	8.25	10.00	19.06	8.122	13.82	2.38	5.87	F1 OR F2	254JP
200		28.76						20.63		15.40				254/256JP







DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	VS	07/10/2025
REQUEST NUMBER	APPROVED BY	DATE
NMR-0237981	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 INCH / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	ZXW
DATE	25/02/2016
APPROVED BY	WY
DATE	25/02/2016
REFERENCE	

marathon™

DESCRIPTION
OUTLINE
254/256JP FR NEMA ODP RS

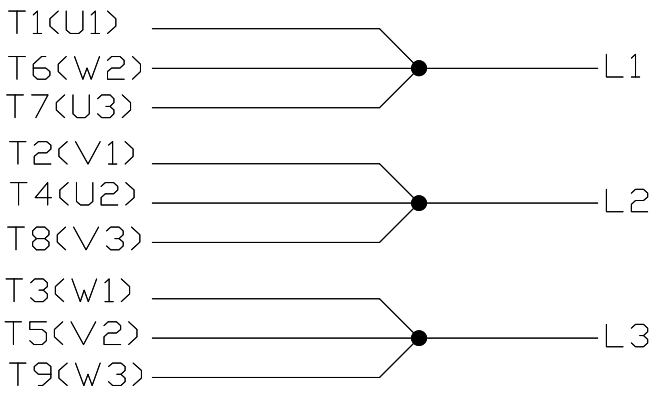
MATERIAL | PROCESS/FINISH

THIRD ANGLE PROJECTION

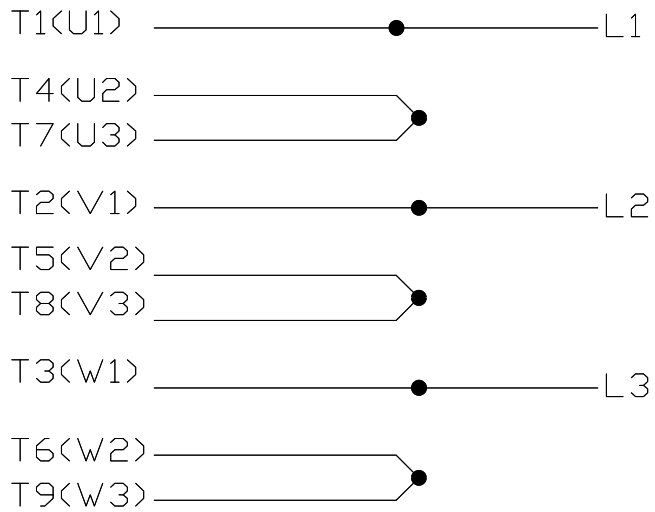
SIZE	DRAWING NUMBER	SHEET
B	SS620825	1 OF 1

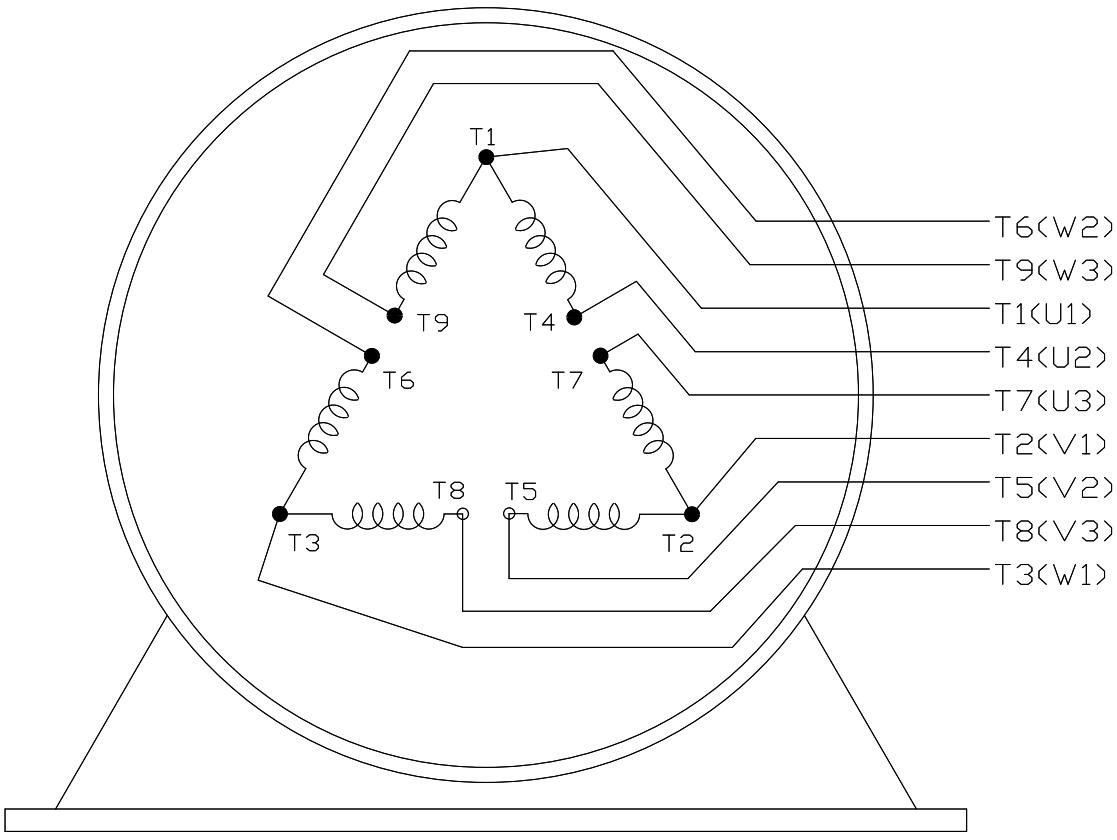
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LOW VOLTAGE



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

254TTDBD6012

Submittal

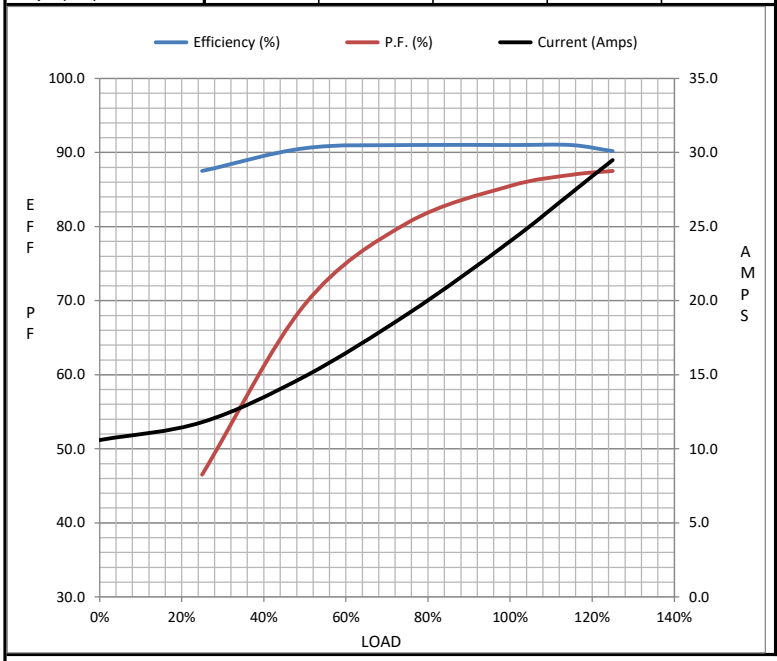
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	10.6	11.8	14.9	19.1	24.0	27.3	29.5	137	
Torque (ft-lb)	0.00	7.3	14.7	22.2	29.6	34.2	37.2	52.0	
RPM	3600	3588	3578	3566	3552	3,545	3540	0	
Efficiency (%)		87.5	90.6	91.0	91.0	91.0	90.2		
P.F. (%)	7.0	46.5	69.5	80.5	85.5	87.0	87.5	39.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3340	3552	3600
Current (Amps)	137	122	83.0	24.0	10.6
Torque (ft-lb)	52.0	44.0	74.0	29.6	0.00



Information Block

HP	20.0
Sync. RPM	3600
Frame	254
Enclosure	DP
Construction	TDB
Voltage	208-230/460#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	3,300 feet
Rotor/Shaft wk²	1.10 Lb-Ft²
Ref Wdg	HA31602015 NONE
Sound Pressure @ 1M	75 dBA
VFD Rating	CONSTANT 2:1/VARIABLE 20:1
Outline Dwg	SS620825-100
Conn. Diag	EE7308K
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.3940	0.1490	1.1590	0.8750	26.4460

Speed -Torque Curve

