marathon®

General Purpose Motors

Model No: 213TTFN16101
Catalog No: L411B

General Purpose Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 900 RPM, 213T Frame, TEFC

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Product Information Packet: Model No: 213TTFN16101, Catalog No: L411B General Purpose Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 900 RPM, 213T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**2 & 1.50 Hp**
Output KW	**1.5 & 1.1 kW**	Voltage	**230/460 & 190/380 V**
Speed	**885 & 725 r/min**	Synchronous RPM	**900 & 750 r/min**
Service Factor	**1.15 & 1.15**	Frame	**213T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**86.5 & 78.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**8/4 & 8.2/4.1 A**
Power Factor	**56**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**L**	Drive End Bearing Size	**6307**
Opp Drive End Bearing Size	**6208**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

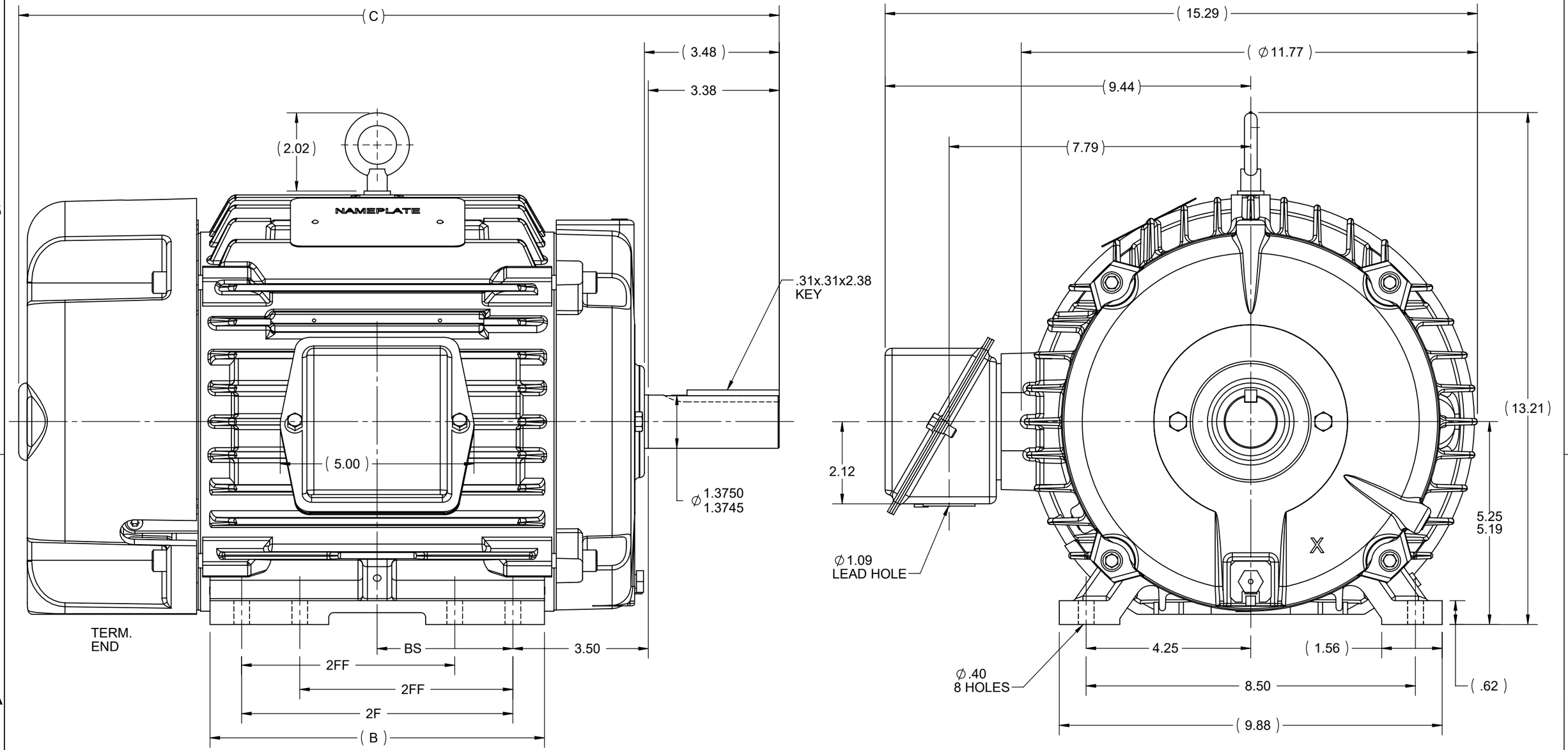
Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**8**	Rotation	**Reversible**
Resistance Main	**3.5 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**19.63 in**
Frame Length	**9.12 in**	Shaft Diameter	**1 3/8 in**
Shaft Extension	**3.38 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**EE7308**	Outline Drawing	**037659-912**

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NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	C	B	2F	2FF	BS
1212	213/215	22.63	11.76	10.00	7.00	5.00
912	213/215	19.63	8.63	7.00	5.50	3.50

DRAWING REVISION	REVISION BY	REV DATE/© DATE
E	BBR	04/11/2025
REQUEST NUMBER	APPROVED BY	DATE
NMR-0237289	BBR	04/11/2025

REQUEST NUMBER DESCRIPTION
DRAWING VIEWS UPDATED

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±0.5°
.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: 125 INCH / 3.2 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	AK
DATE	10-05-2009
APPROVED BY	SK
DATE	10-05-2009
REFERENCE	

THIRD ANGLE PROJECTION

marathon™

DESCRIPTION
OUTLINE
210 FR. TEFC

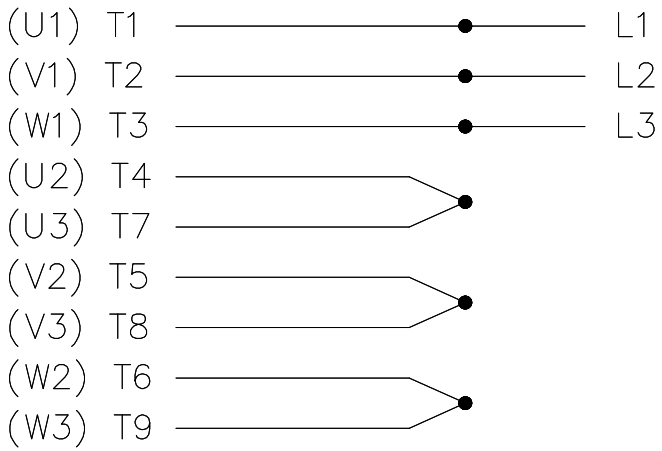
MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	037659	1 OF 1

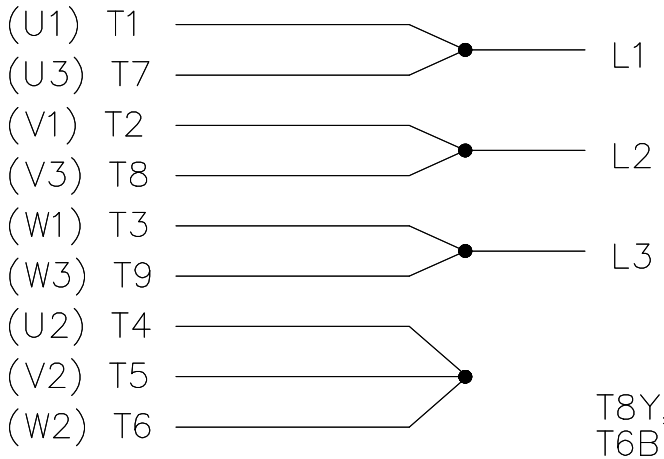
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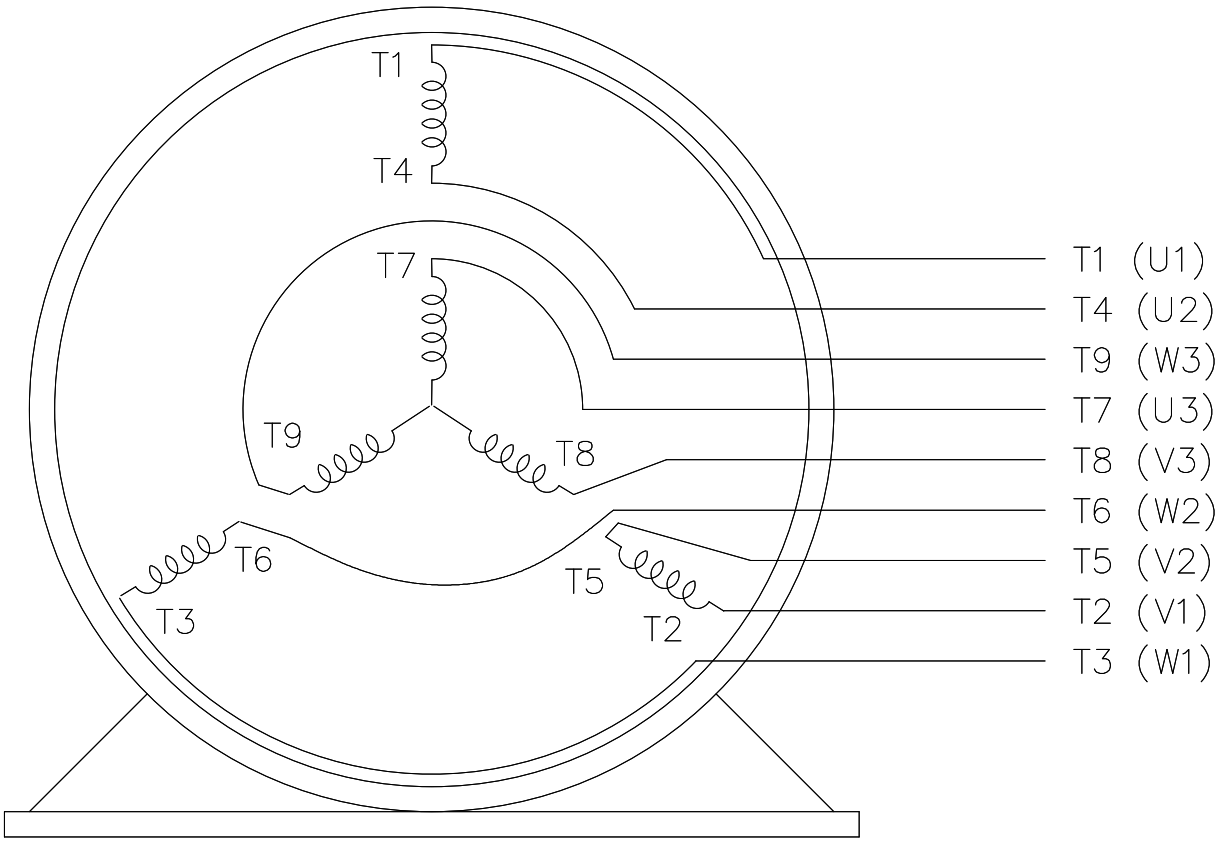
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE





VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION: J	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: RM	
DATE: 11/20/1990	
APPROVED BY: SAS	
DATE: 04/24/2003	
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	4 of 5 EE7308	1 OF 1

Data Sheet

Date: 12/3/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

213TTFN16101

Submittal

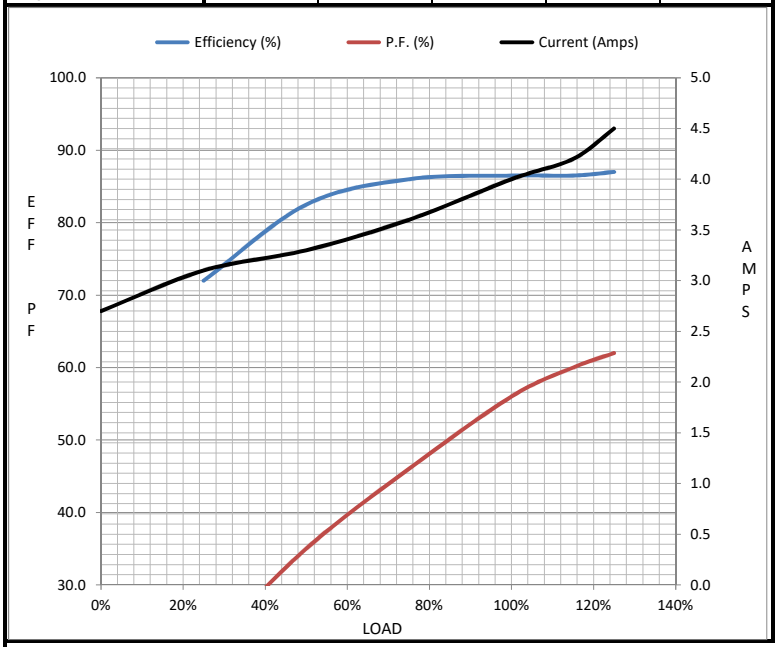
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.70	3.1	3.3	3.6	4.0	4.2	4.5	24.0	
Torque (ft-lb)	0.00	3.0	6.0	9.0	12.0	13.8	15.0	27.5	
RPM	900	895	891	888	885	880	878	0	
Efficiency (%)		72.0	82.5	86.0	86.5	86.5	87.0		
P.F. (%)	7.0	21.0	35.0	46.0	56.0	60.0	62.0	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	770	885	900
Current (Amps)	24.0	21.5	16.0	4.0	2.70
Torque (ft-lb)	27.5	24.5	46.0	12.0	0.00



Information Block

HP	2.0
Sync. RPM	900
Frame	213
Enclosure	TEFC
Construction	TFS
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	L
Service Factor	1.15
Temp Rise @ FL	25 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.95 Lb-Ft²
Ref Wdg	215838 R5
Sound Pressure @ 1M	52 dBA
VFD Rating	NONE
Outline Dwg	037659-912
Conn. Diag	EE7308
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.9310	1.8600	9.0170	10.6220	81.3660

Speed -Torque Curve

