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General Purpose Motors

Model No: 254TTFCD6007
Catalog No: GT1421A

General Purpose Motor, 15 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 254TC Frame, TEFC

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Product Information Packet: Model No: 254TTFCD6007, Catalog No: GT1421A General Purpose Motor, 15 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 254TC Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**15 Hp**
Output KW	**11.2 kW**	Voltage	**575 V**
Speed	**3545 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**254TC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**14.3 A**
Power Factor	**87**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6209**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		

Technical Specifications

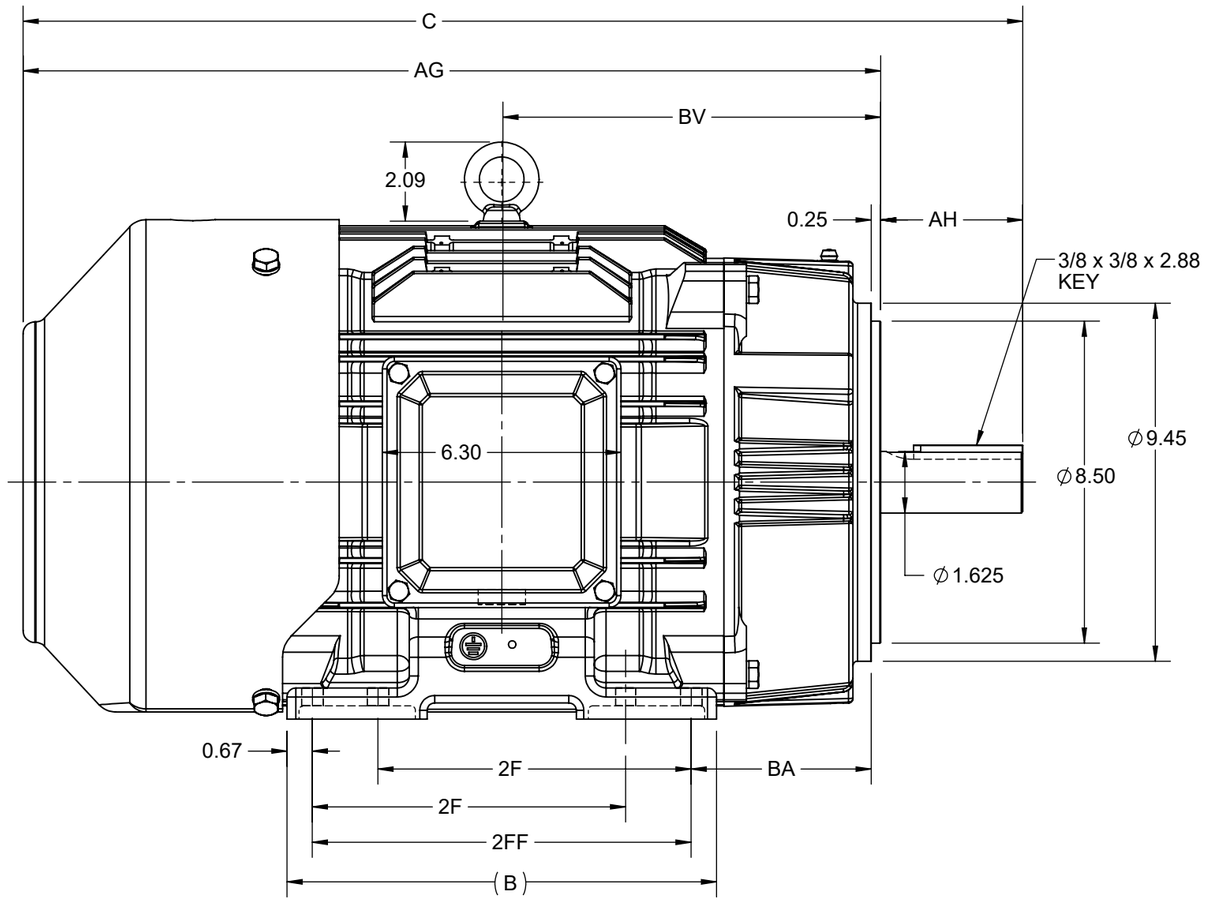
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.788 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**24.65 in**
Frame Length	**10.0 in**	Shaft Diameter	**1.626 in**
Shaft Extension	**4 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 2:1/Variable 10:1**		

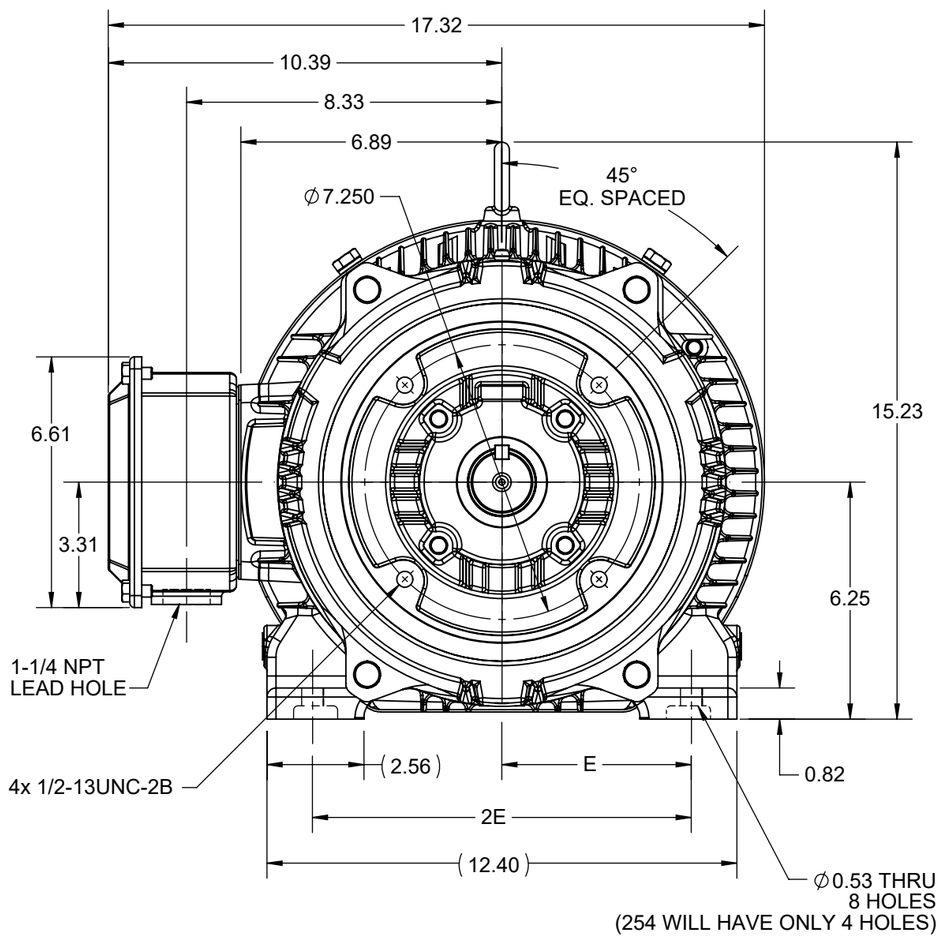
Drawings

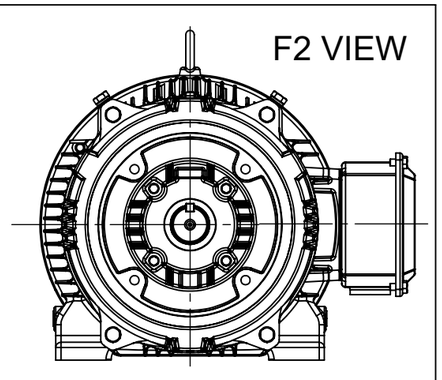
Connection Drawing	**EE7300**	Outline Drawing	**SS620700-100**

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DASH NO.	B	C	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING	FRAME
100	9.60	24.65	5.00	10.00	---	8.25	20.90	3.75	4.75	9.14	F1 OR F2	254TC
200	11.34	26.39			8.25	10.00	22.64			10.00		254/256TC







DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	SB	07/23/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023556	SBD	07/23/2025

REQUEST NUMBER DESCRIPTION
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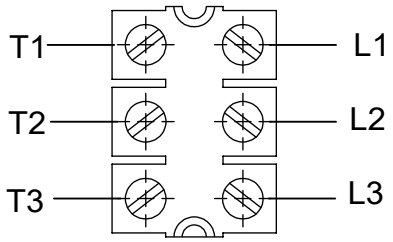
DRAWN BY	DESCRIPTION
SMAR	OUTLINE
DATE	254/256TC FR-TEFC-CAST IRON
06/07/2015	
APPROVED BY	
SBD	
DATE	
06/07/2015	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS620700 / SHEET 1 OF 1

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THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

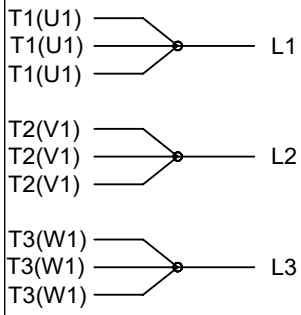
TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

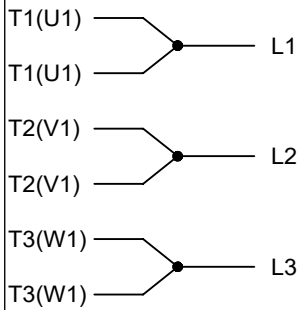


VIEW OF TERMINAL END

IF MOTOR HAS
9 LEADS



IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION: AD	REVISION BY: SB	REV DATE/© DATE: 08/01/2025
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025

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DRAWN BY: DA	
DATE: 03-26-1993	
APPROVED BY: TB	
DATE: 03-26-1993	
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL	PROCESS/FINISH

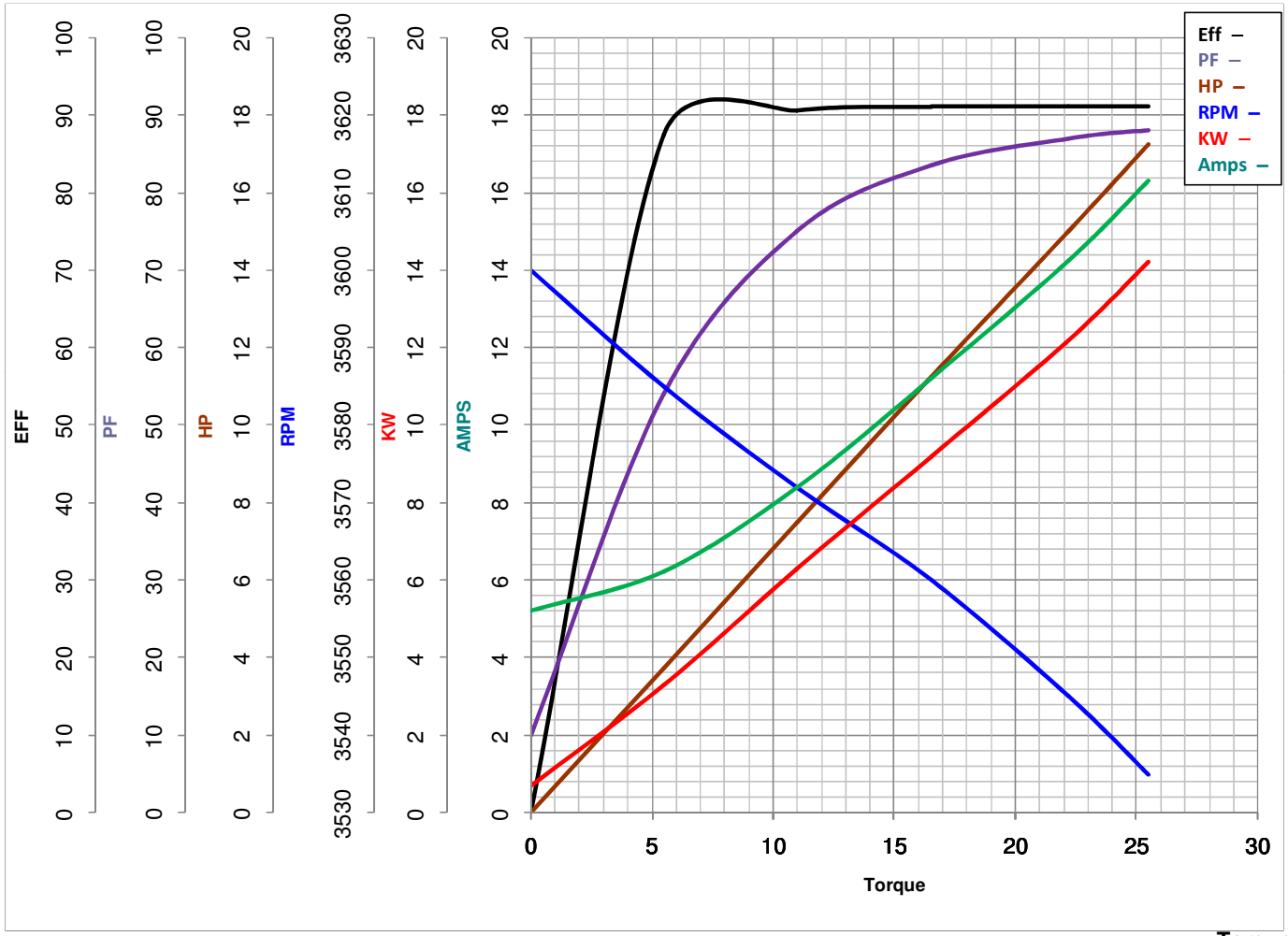
SIZE	DRAWING NUMBER	SHEET
A	EE7300	1 OF 1

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MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer		**Curve at**	575	**Volts**	**HP** 15.00	**PHASE**	3
			60	**HZ**			
Model No 254TTFCD6007			15	**HP**	**VOLTS** 575		
Catalog No GT1421A					**HZ** 60	**RPM**	3545



Torque in Lb.Ft

FL TORQUE	22.2	**Lb.Ft**	**FL AMPS**	14.3	
BD TORQUE	60.0	**Lb.Ft**	**PU TORQUE**	31.5	**Lb.Ft**
LR TORQUE	37	**Lb.Ft**	**LR AMPS**	91.2	
WINDING	HE31602008-3	**Prepared By**	ANUSHA M	**Date**	5/4/2018