marathon®

General Purpose Motors

Model No: 449TSTFCD6005
Catalog No: GT1068

General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 RPM, 449TS Frame, TEFC

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Product Information Packet: Model No: 449TSTFCD6005, Catalog No: GT1068 General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 RPM, 449TS Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**250 & 200 Hp**
Output KW	**187.0 & 149.0 kW**	Voltage	**460 & 380 V**
Speed	**3580 & 2980 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**449TS**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**95.8 & 95.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**266 & 259 A**
Power Factor	**92**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6314**
Opp Drive End Bearing Size	**6314**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		

Technical Specifications

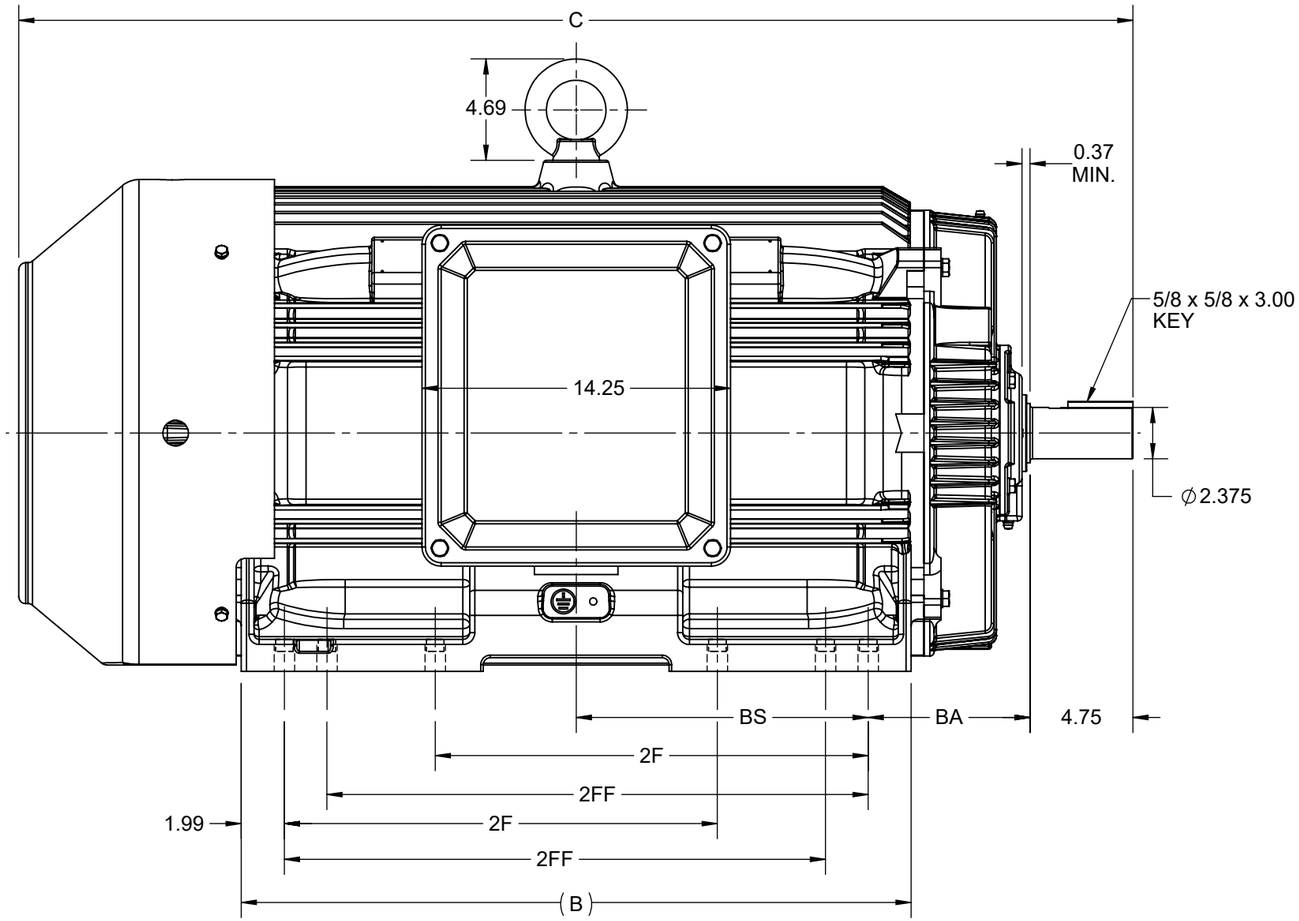
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.0128 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Shaft Diameter	**2.375 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2:1/Variable 10:1**

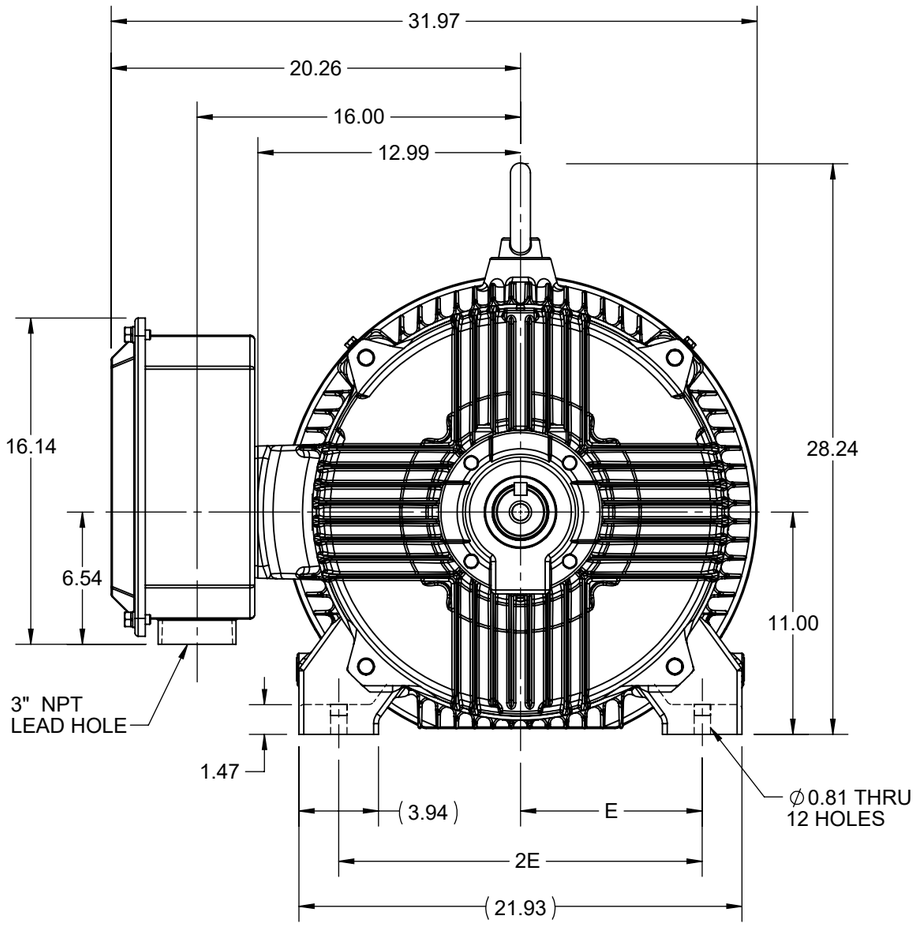
Drawings

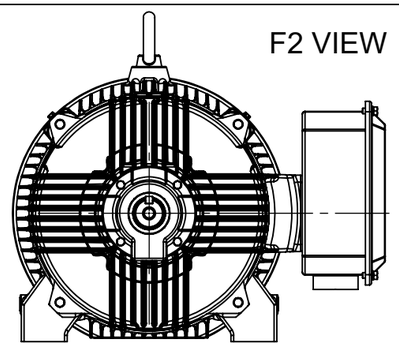
Connection Drawing	**EE7341C**	Outline Drawing	**SS557012**

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B	C	E	2E	2F	2FF	BA	BS	MOUNTING
30.94	51.46	9.00	18.00	20.00	25.00	7.50	13.48	F1 OR F2







DRAWING REVISION G	REVISION BY SB	REV DATE/© DATE 08/14/2025
REQUEST NUMBER CR-0023600	APPROVED BY SBD	DATE 08/14/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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DRAWN BY NIV	marathon™	
DATE 23/05/2016		
APPROVED BY SBD	DESCRIPTION: OUTLINE 447/449TS FR-TEFC	
DATE 23/05/2016		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS557012	SHEET 1 OF 1

Uncontrolled Copy

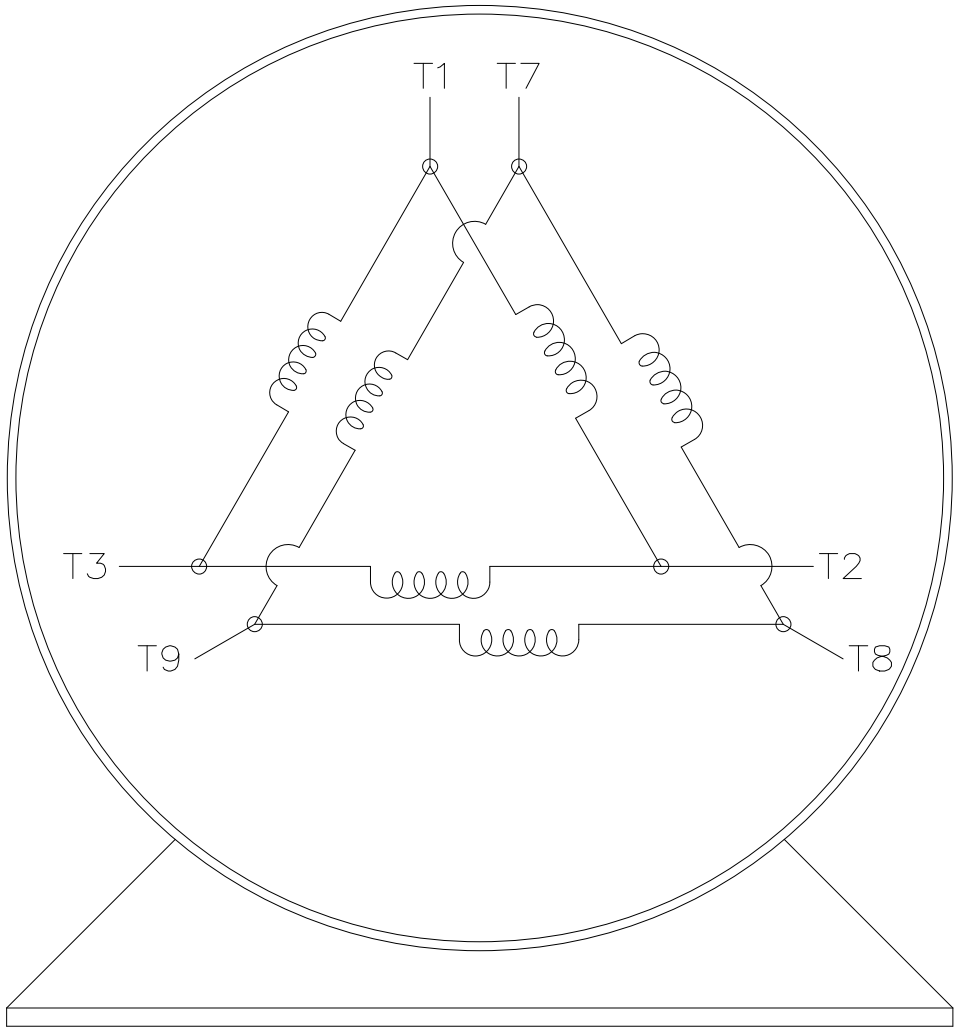
THREE PHASE – PART WINDING START
DELTA – 6 LEADS

START

CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7–T8–T9 OPEN

RUN

CONNECT T1&T7 TO LINE 1
CONNECT T2&T8 TO LINE 2
CONNECT T3&T9 TO LINE 3



VIEW OF TERMINAL END

IF MOTOR HAS 2 T'S

START

CONNECT T1,T1 TO LINE 1
CONNECT T2,T2 TO LINE 2
CONNECT T3,T3 TO LINE 3
T7,T7–T8,T8–T9,T9 OPEN

RUN

CONNECT T1,T1&T7,T7 TO LINE 1
CONNECT T2,T2&T8,T8 TO LINE 2
CONNECT T3,T3&T9,T9 TO LINE 3

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

REQUEST NUMBER DESCRIPTION
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DRAWN BY	BLR
DATE	03/09/1998
APPROVED BY	GK
DATE	03/23/1998
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø – 6 LEADS

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7341C	1 OF 1

Data Sheet

Date: 9/15/2022
Customer:
Attention:
Submitted by:

marathon® Motors

449TSTFCD6005

Submittal

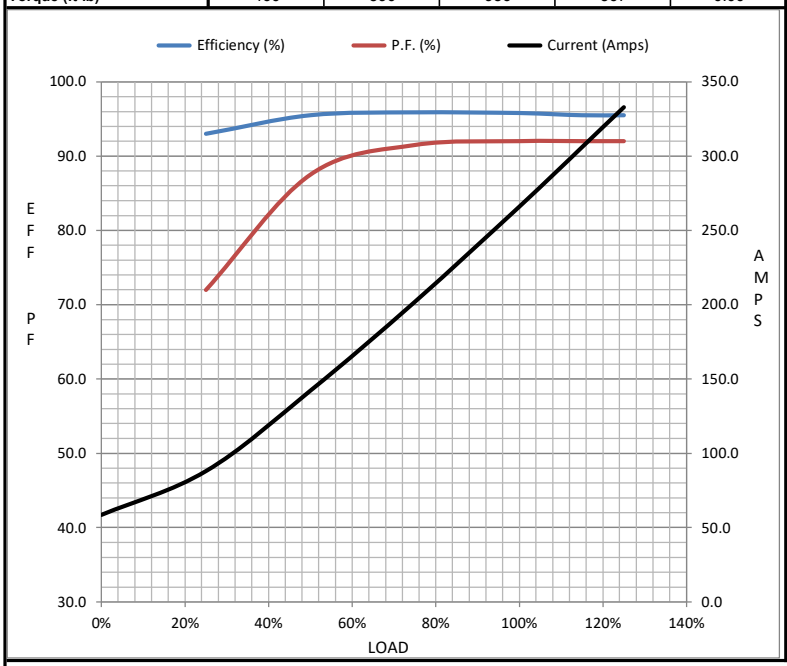
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	58.5	88.0	142	202	266	306	333	1,880	
Torque (ft-lb)	0.00	91.0	183	275	367	422	459	460	
RPM	3600	3595	3590	3585	3580	3,576	3574	0	
Efficiency (%)		93.0	95.5	95.9	95.8	95.5	95.5		
P.F. (%)	7.0	72.0	87.5	91.5	92.0	92.0	92.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3470	3580	3600
Current (Amps)	1,880	1,520	1,100	266	58.5
Torque (ft-lb)	460	590	956	367	0.00



Information Block

HP	250.0	
Sync. RPM	3600	
Frame	449	
Enclosure	TEFC	
Construction	TFC	
Voltage	460#380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	75	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	48.9	Lb-Ft²
Ref Wdg	HA32802019 NONE	
Sound Pressure @ 1M	85	dBA
VFD Rating	CONSTANT 2:1/VARIABLE 10:1	
Outline Dwg		
Conn. Diag	EE7341C	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0080	0.0060	0.0660	0.0760	4.4970

Speed -Torque Curve

