marathon®

General Purpose Motors

Model No: 449TTFCD6038
Catalog No: GT1070

General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 449T Frame, TEFC

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Product Information Packet: Model No: 449TTFCD6038, Catalog No: GT1070 General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 449T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**250 & 200 Hp**
Output KW	**187.0 & 149.0 kW**	Voltage	**460 & 380 V**
Speed	**1790 & 1490 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**449T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**96.2 & 95.8 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**272 & 272 A**
Power Factor	**89.7**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**NU319**
Opp Drive End Bearing Size	**6317**	UL	**Listed**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**
Hazardous Location	**DIVISION 2 T2B**		

Technical Specifications

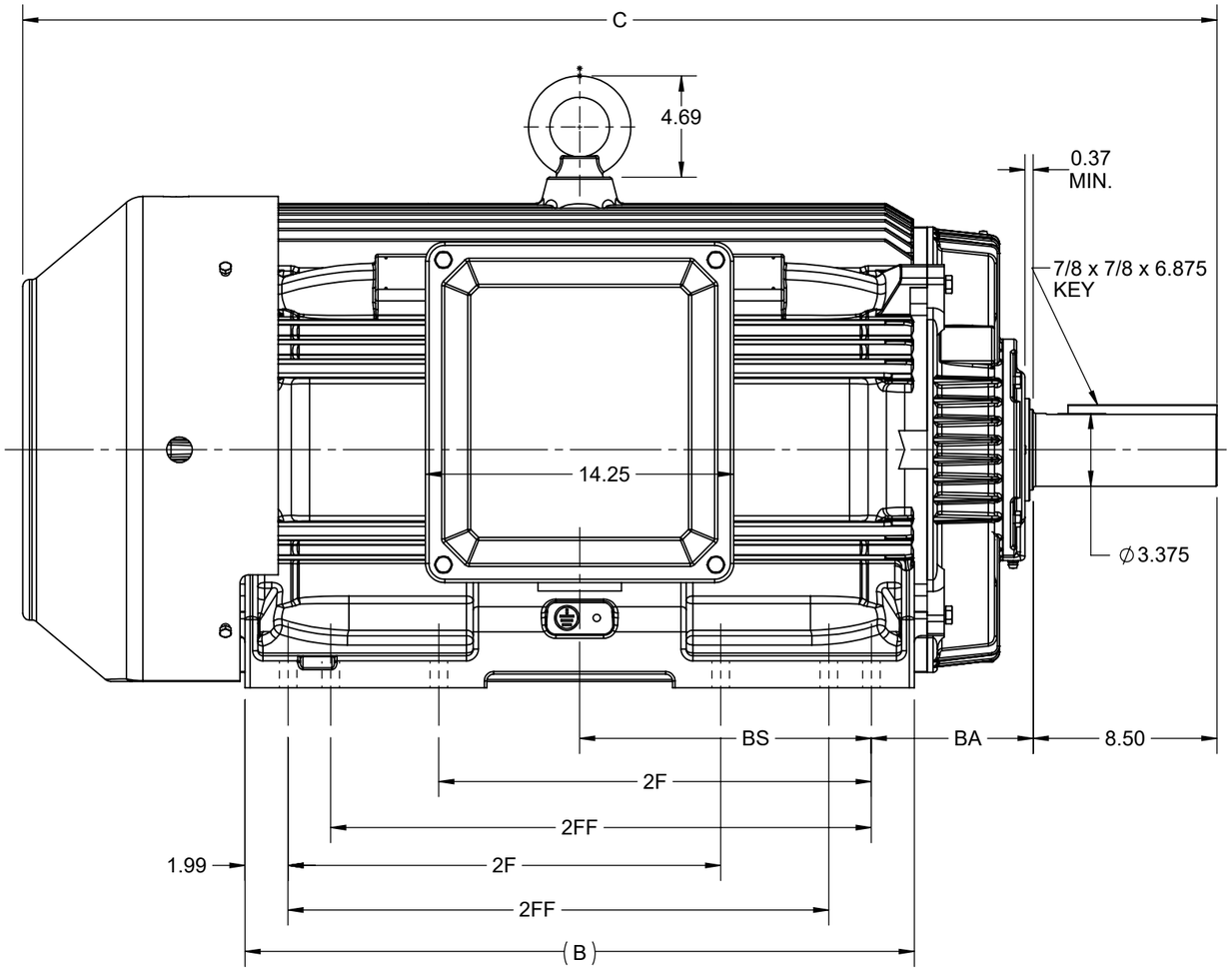
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.0142 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Roller**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Shaft Diameter	**3.375 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2:1/Variable 10:1**

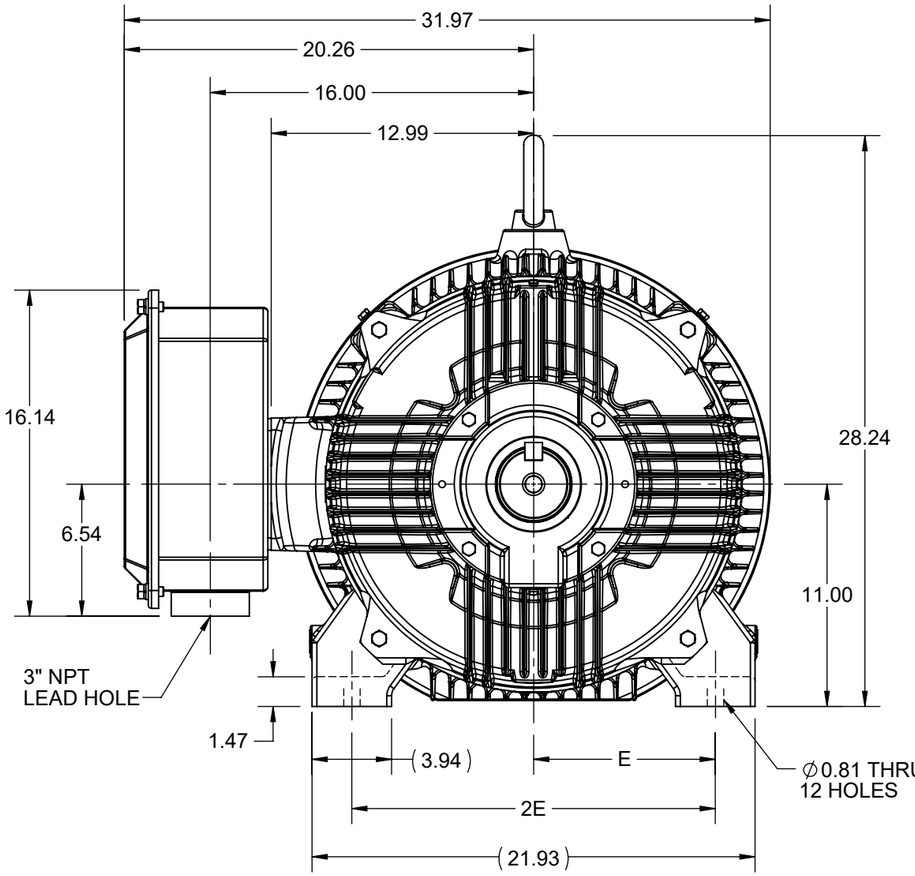
Drawings

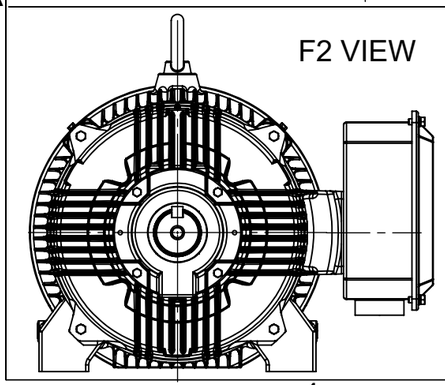
Connection Drawing	**EE7341C**	Outline Drawing	**SS557013**

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B	C	E	2E	2F	2FF	BA	BS	MOUNTING
30.94	55.21	9.00	18.00	20.00	25.00	7.50	13.48	F1 OR F2







DRAWING REVISION	REVISION BY	REV DATE/© DATE
E	SB	09/02/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023556	SBD	09/02/2025

REQUEST NUMBER DESCRIPTION
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DATE	23/05/2016
APPROVED BY	SBD
DATE	23/05/2016
REFERENCE	

marathon™

DESCRIPTION
OUTLINE
447/449T FR-TEFC

MATERIAL | PROCESS/FINISH

THIRD ANGLE PROJECTION

SIZE	DRAWING NUMBER	SHEET
B	SS557013	1 OF 1

Uncontrolled Copy

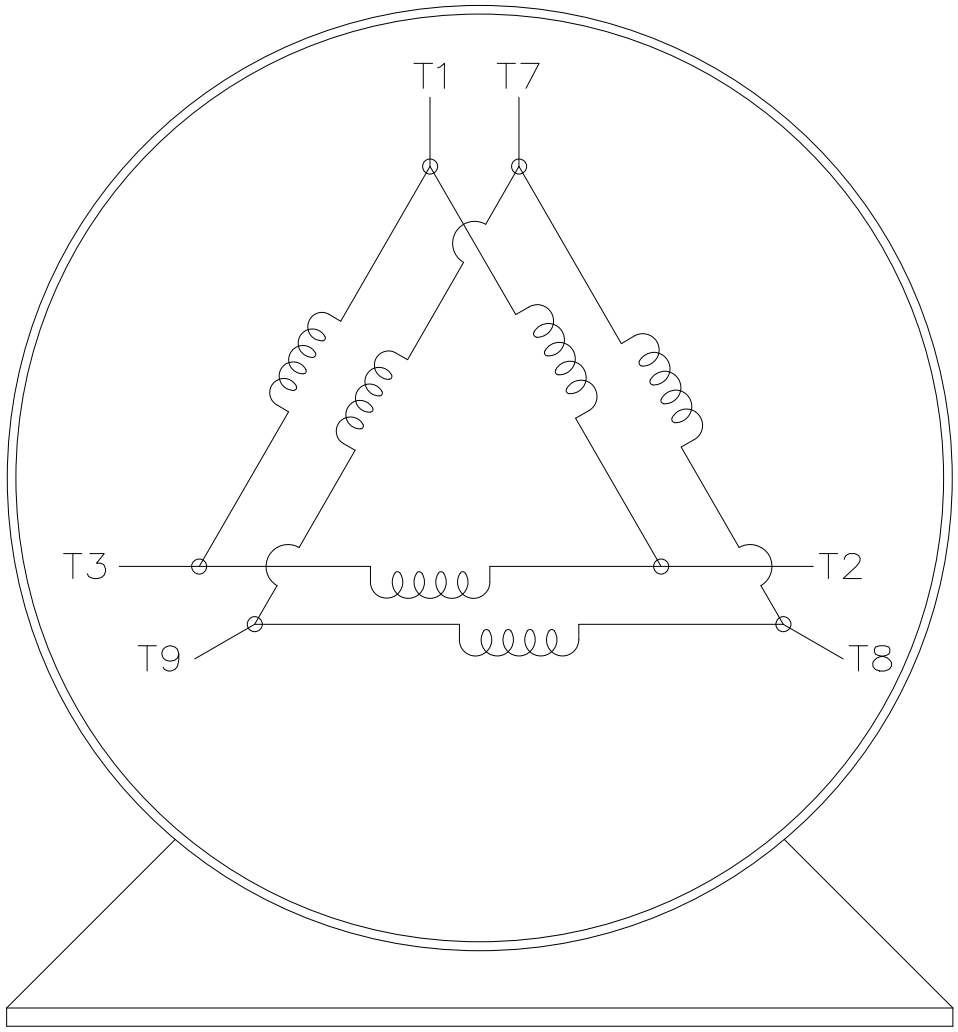
THREE PHASE – PART WINDING START
DELTA – 6 LEADS

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
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CR-0023654	SBD	08/01/2025

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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: 11/29/2022
Customer:
Attention:
Submitted by:

marathon® Motors

449TTFCD6038

Submittal

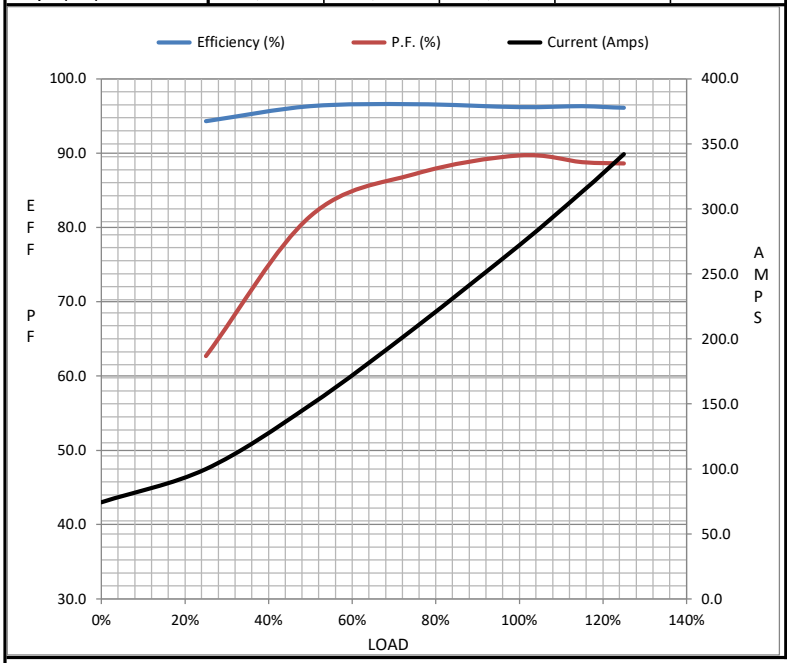
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	74.3	100	149	209	272	313	342	1,875	
Torque (ft-lb)	0.00	183	366	550	734	845	919	1,650	
RPM	1800	1797	1795	1792	1790	1,788	1786	0	
Efficiency (%)		94.3	96.3	96.6	96.2	96.3	96.1		
P.F. (%)	4.4	62.7	81.5	87.2	89.7	88.8	88.6	39.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1750	1790	1800
Current (Amps)	1,875	1,540	990	272	74.3
Torque (ft-lb)	1,650	1,550	2,200	734	0.00



Information Block

HP	250.0	
Sync. RPM	1800	
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	110	Lb-Ft²
Ref Wdg	HA32804048 NONE	
Sound Pressure @ 1M	80	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
0.0090	0.0050	0.0620	0.1470	3.2770

Speed -Torque Curve

