marathon®

General Purpose Motors

Model No: 447TTDCD6086
Catalog No: GT00021

General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 RPM, 447T Frame, DP

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Product Information Packet: Model No: 447TTDCD6086, Catalog No: GT00021 General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 RPM, 447T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**250 & 200 Hp**
Output KW	**187.0 & 149.0 kW**	Voltage	**460 & 380 V**
Speed	**1188 & 989 r/min**	Synchronous RPM	**1200 & 1000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**447T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**95.8 & 95.1 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**290 & 280 A**
Power Factor	**85.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6319**
Opp Drive End Bearing Size	**6317**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

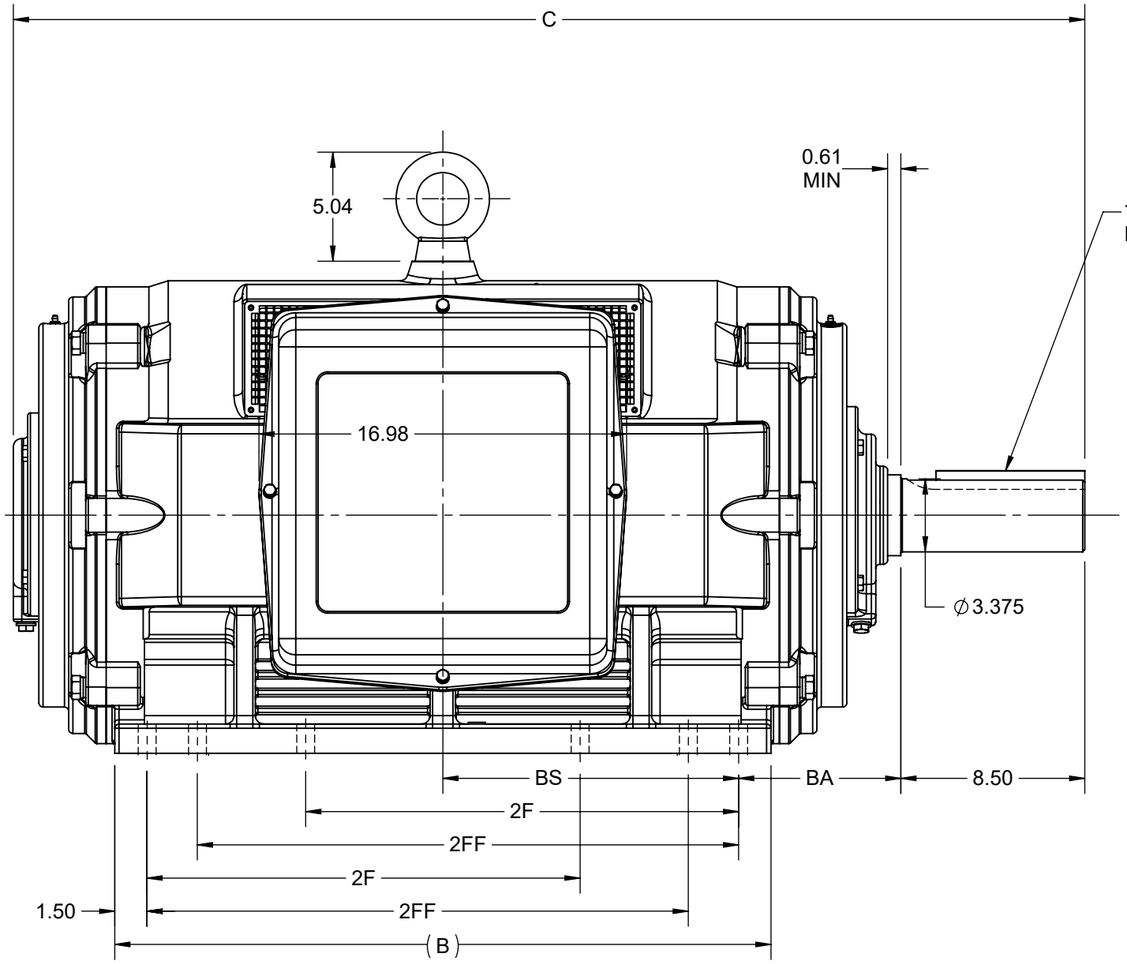
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start & Wye Start Delta Run Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.02 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Shaft Diameter	**3.375 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Variable 10:1**

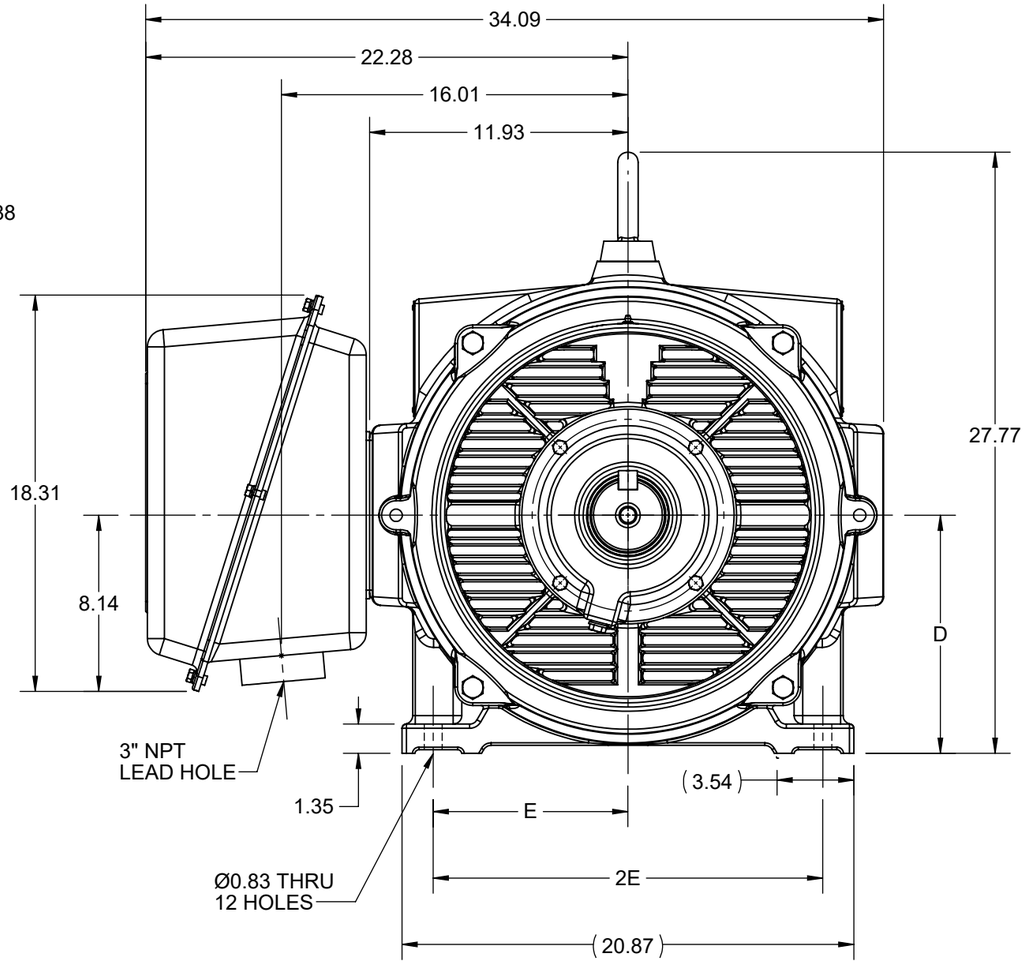
Drawings

Connection Drawing	**EE7300BH**	Outline Drawing	**SS620758-200**

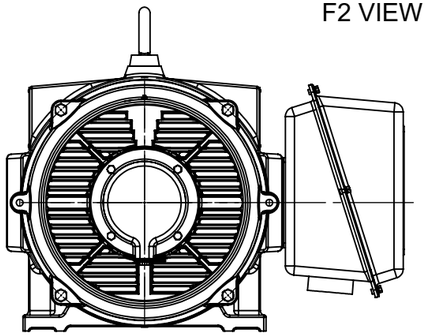
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DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	25.20	44.39	11.00	9.00	18.00	14.50	16.50	7.50	11.10	F1 OR F2	444/445T
200	30.31	49.50				20.00	25.00		13.66		447/449T





F2 VIEW



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DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023600	SBD	08/01/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

PRIMARY DIMENSIONS ARE INCH
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ARE FOR REFERENCE ONLY

DRAWN BY	ZXW
DATE	21/07/2016
APPROVED BY	
DATE	
REFERENCE	
THIRD ANGLE PROJECTION	

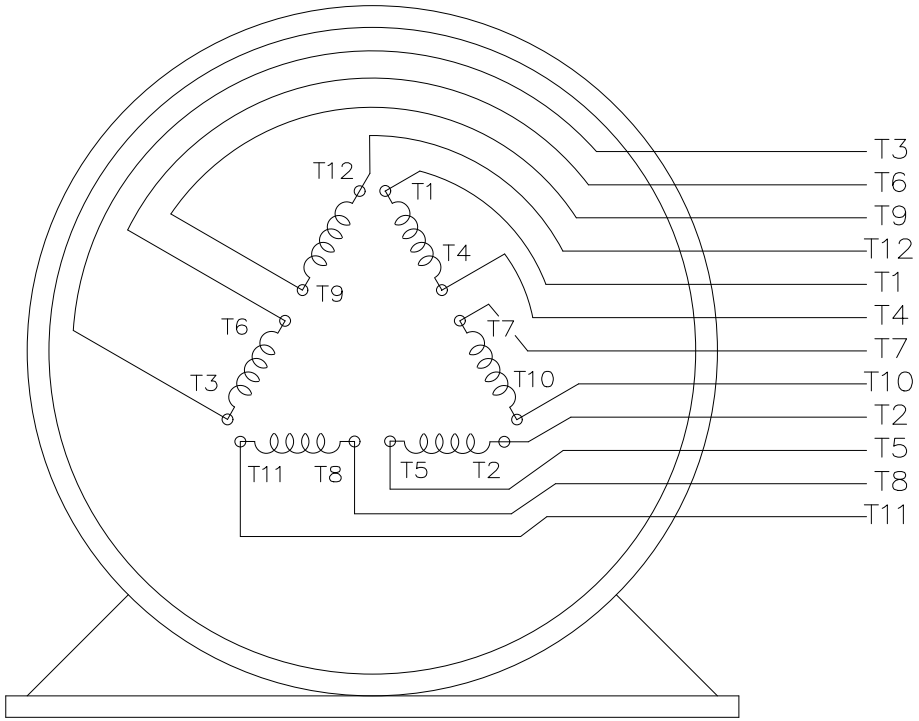
marathon™

DESCRIPTION
OUTLINE
444/445/447/449T FR NEMA ODP CAST IRON

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS620758	1 OF 1

Uncontrolled Copy



VIEW OF TERMINAL END

T12(W4)
T1(U1)
T6(W2)
T7(U3)
LINE 1

T2(V1)
T4(U2)
T8(V3)
T10(U4)
LINE 2

T3(W1)
T5(V2)
T9(W3)
T11(V4)
LINE 3

DRAWING REVISION: E	REVISION BY: SB	REV DATE/ © DATE: 08/04/2025
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/04/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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DRAWN BY: RJW	marathon™	
DATE: 02/11/2005		
APPROVED BY: GK	DESCRIPTION: CONNECTION DIAGRAM 12 LEAD - SINGLE VOLTAGE	
DATE: 02/11/2005		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7300BH	SHEET: 1 OF 1

Data Sheet

Date: 12/24/2020
Customer:
Attention:
Submitted by:

marathon® Motors

447TTDCD6086

Submittal

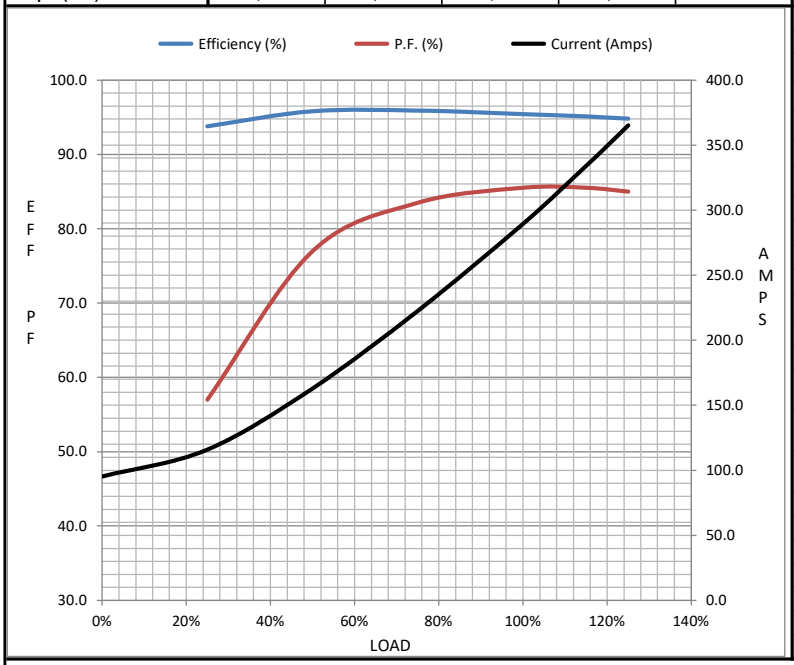
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	95.1	116	163	223	290	334	365	1,810	
Torque (ft-lb)	0.00	274	550	827	1,105	1,273	1,386	2,300	
RPM	1200	1197	1195	1192	1188	1,186	1185	0	
Efficiency (%)		93.8	95.8	95.9	95.4	95.1	94.8		
P.F. (%)	4.0	57.0	77.0	83.5	85.5	85.5	85.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1145	1188	1200
Current (Amps)	1,810	1,450	890	290	95.1
Torque (ft-lb)	2,300	1,930	2,375	1,105	0.00

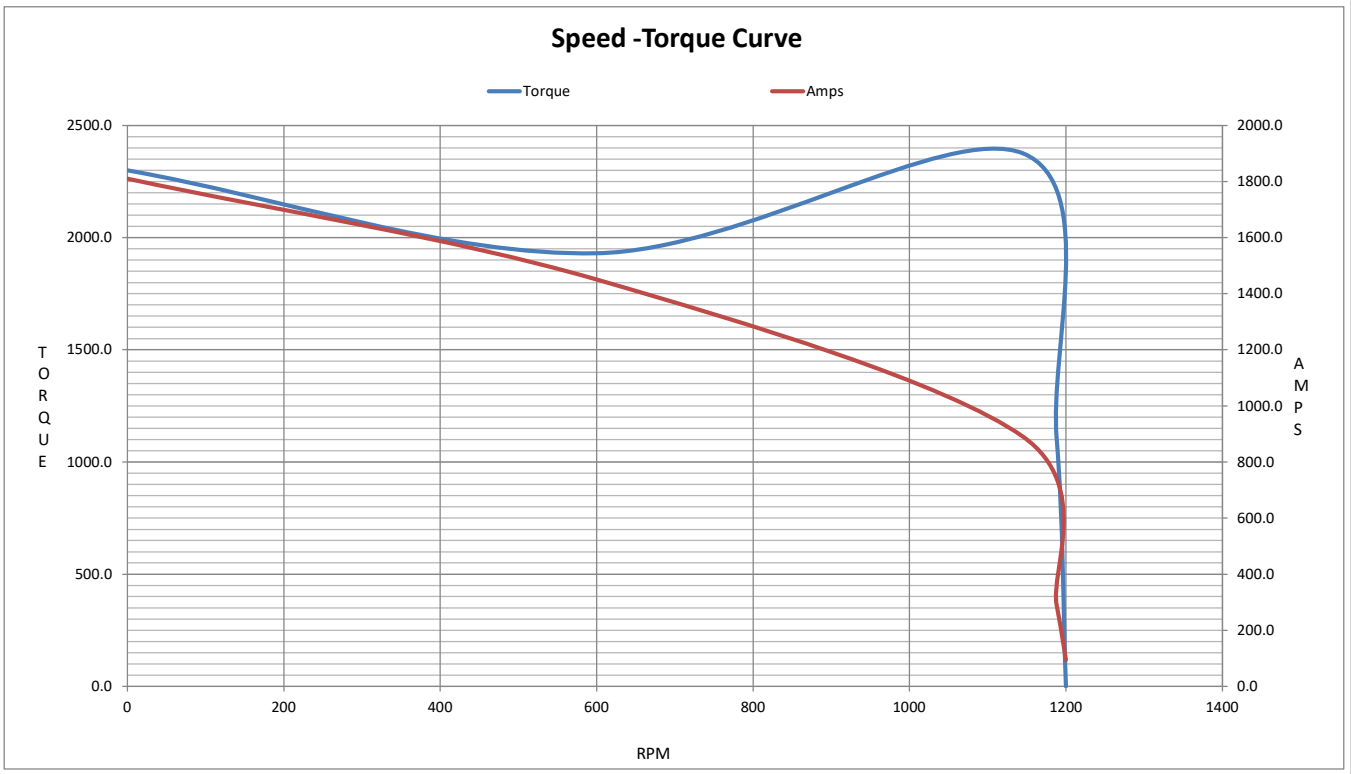


Information Block

HP	250.0	
Sync. RPM	1200	
Frame	447	
Enclosure	DP	
Construction	TDC	
Voltage	460#380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	70	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	122	Lb-Ft²
Ref Wdg	HA32806027 NONE	
Sound Pressure @ 1M	78	dBA
VFD Rating	VARIABLE 10:1	
Outline Dwg	SS620758-447T	
Conn. Diag	EE7300BH	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0120	0.0090	0.0870	0.1600	2.8340



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7300BH
OUTLINE: SS620758-447T
WINDING: HA32806027 NONE 1
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 447TTDCD6086
CAT #: GT00021
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
250	187	1200	1188	447T	DP	TDC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	290&280	PWS & YDRUN	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.9	1/2 LD EFF	95.8	GTD EFF	ELECT. TYPE
F.L. PF	85.5	3/4 LD PF	83.5	1/2 LD PF	77.0	95.0	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
1,105 LB-FT	1,810	2,300 LB-FT 208%	2,375 LB-FT 215%	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR WGT
78 dBA	87 dBA	122 LB-FT²	2600 LB-FT²	20 SEC.	2	2650 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	YES	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6319	6317						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.012	0.009	0.087	0.16	2.834	0.150	ODE

*
NOTES
*

INVERTER TORQUE: VARIABLE 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY:
DATE: 12/24/2020

FORM: 3531 REV_4 2/27/06

UL: V - LI,ME-INS,CONST UL REC