marathon®

General Purpose Motors

Model No: 445TTDCD6076
Catalog No: GT0050A

General Purpose Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 RPM, 445T Frame, DP

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Product Information Packet: Model No: 445TTDCD6076, Catalog No: GT0050A General Purpose Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 RPM, 445T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**125 & 100 Hp**
Output KW	**93.0 & 75.0 kW**	Voltage	**460 & 380 V**
Speed	**1190 & 990 r/min**	Synchronous RPM	**1200 & 1000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**445T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**95 & 94.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**145 & 140 A**
Power Factor	**85.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	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

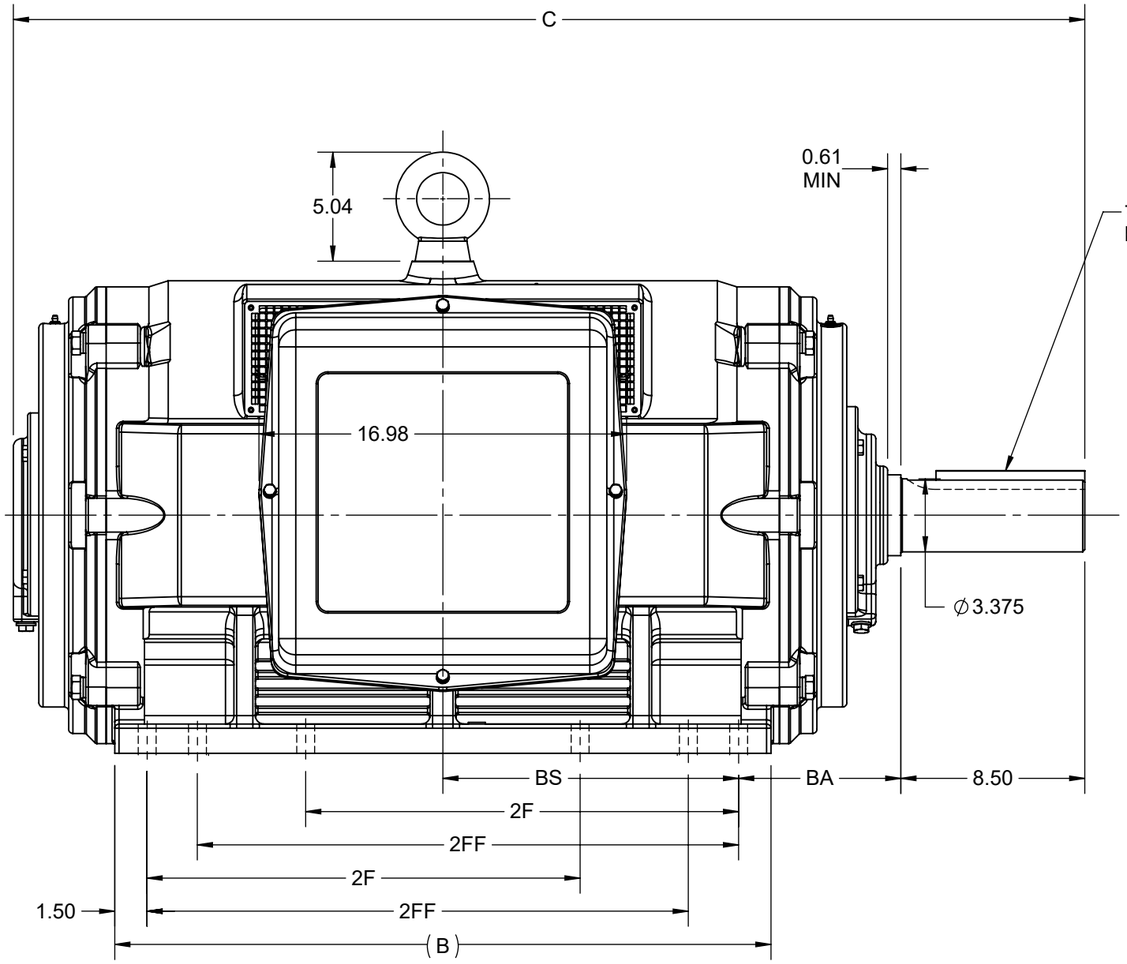
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Wye Start Delta Run Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.04651 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**44.57 in**
Shaft Diameter	**3 3/8 in**	Shaft Extension	**8.5 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Variable 10:1**

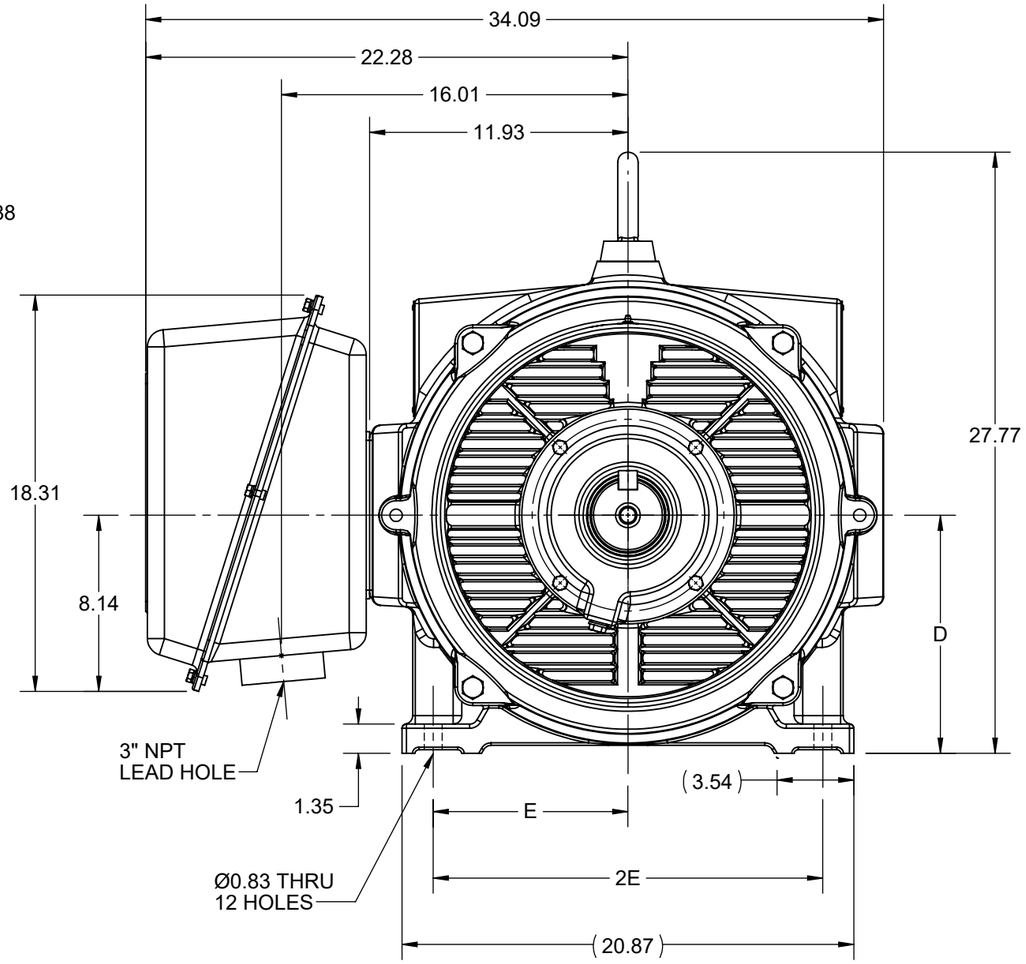
Drawings

Connection Drawing	**EE7340**	Outline Drawing	**SS620758-100**

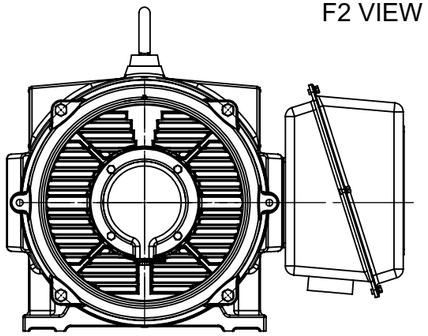
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DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	25.20	44.39	11.00	9.00	18.00	14.50	16.50	7.50	11.10	F1 OR F2	444/445T
200	30.31	49.50				20.00	25.00		13.66		447/449T





F2 VIEW



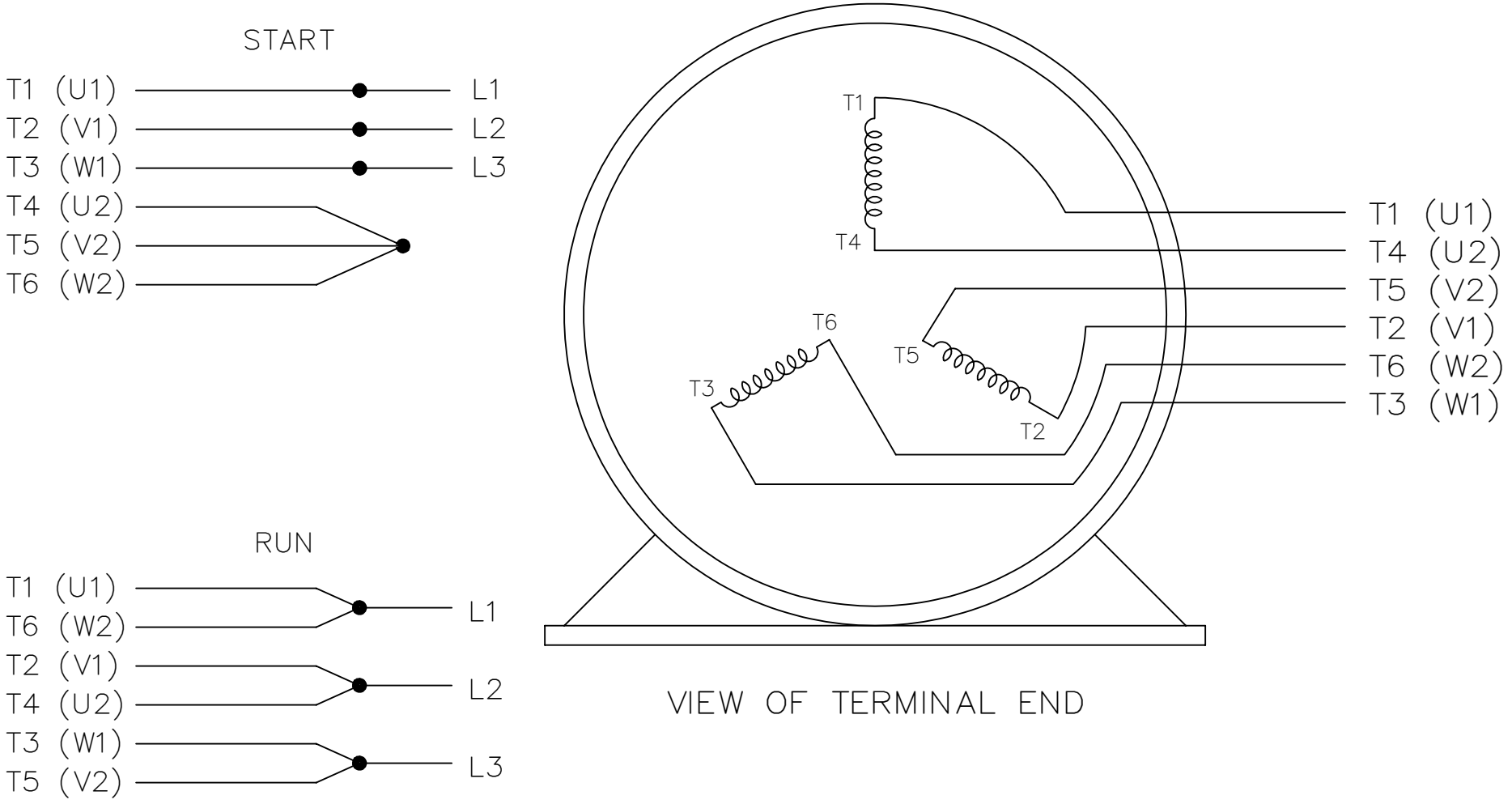
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DRAWING REVISION: D	REVISION BY: SB	REV DATE/© DATE: 08/01/2025
REQUEST NUMBER: CR-0023600	APPROVED BY: SBD	DATE: 08/01/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY: ZXW	marathon™
DATE: 21/07/2016	
APPROVED BY:	DESCRIPTION: OUTLINE 444/445/447/449T FR NEMA ODP CAST IRON
DATE:	
REFERENCE:	MATERIAL: / PROCESS/FINISH:
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS620758 / SHEET: 1 OF 1

THREE PHASE
WYE START DELTA RUN



DRAWING REVISION: G	REVISION BY: SB	REV DATE/© DATE: 08/04/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: LZ	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/04/2025		DATE: 01-06-1994	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: GK	DESCRIPTION: CONNECTION DIAGRAM 3∅ - WYE START DELTA RUN
				DATE: 01-18-1994	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7340 / SHEET: 1 OF 1

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Data Sheet

Date: 12/1/2021
Customer:
Attention:
Submitted by:

marathon® Motors

445TTDCD6076

Submittal

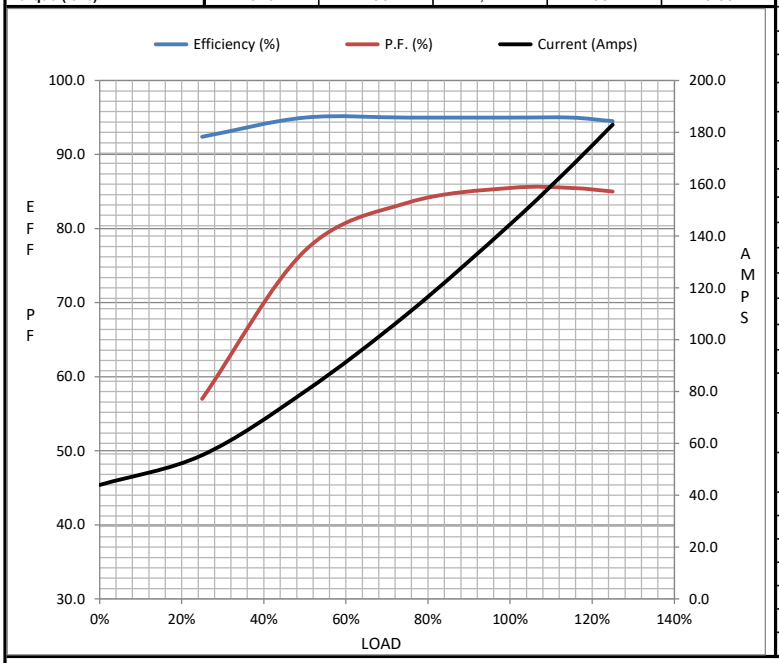
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	44.0	55.5	80.0	110	145	167	183	860	
Torque (ft-lb)	0.00	137	275	413	552	636	692	940	
RPM	1200	1198	1195	1192	1190	1,188	1185	0	
Efficiency (%)		92.4	95.0	95.0	95.0	95.0	94.5		
P.F. (%)	4.5	57.0	77.0	83.5	85.5	85.5	85.0	34.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1190	1200
Current (Amps)	860	690	420	145	44.0
Torque (ft-lb)	940	790	1,242	552	0.00



Information Block

HP	125.0	
Sync. RPM	1200	
Frame	445	
Enclosure	DP	
Construction	TDC	
Voltage	460#380	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	45	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	88.0	Lb-Ft²
Ref Wdg	HA32806019 NONE	
Sound Pressure @ 1M	78	dBA
VFD Rating	VARIABLE 20:1	
Outline Dwg	SS620758-100	
Conn. Diag	EE7341C	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0290	0.0180	0.1930	0.3130	6.0160

Speed -Torque Curve

