marathon®

General Purpose Motors

Model No: 445TSTDCD6060
Catalog No: GT0090

General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 445TS Frame, DP

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Product Information Packet: Model No: 445TSTDCD6060, Catalog No: GT0090 General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 RPM, 445TS Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**200 & 150 Hp**
Output KW	**149.0 & 112.0 kW**	Voltage	**460 & 380 V**
Speed	**1790 & 1490 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**445TS**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**95.8 & 95.8 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**223 & 203 A**
Power Factor	**87.5**	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

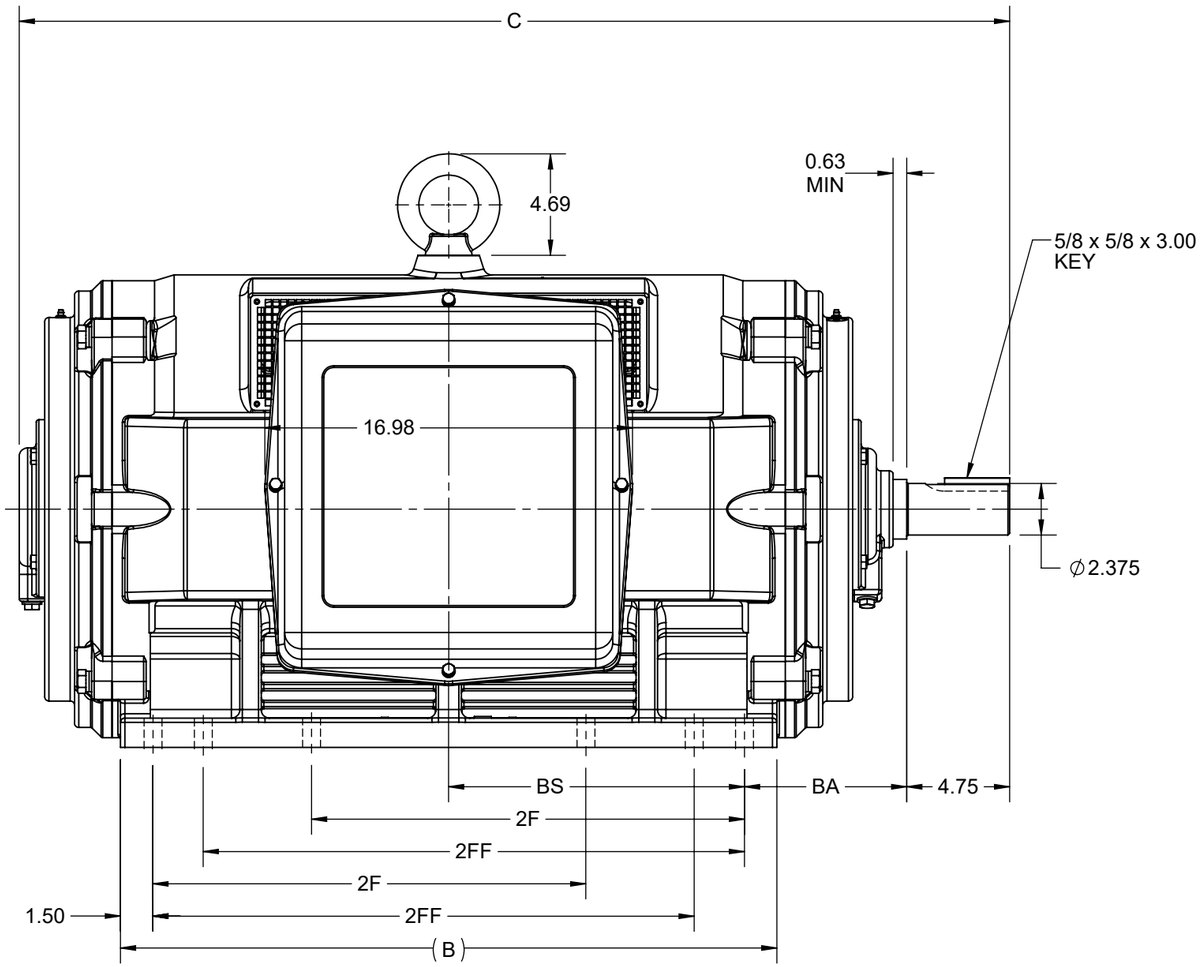
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Wye Start Delta Run Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.019 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Overall Length	**40.83 in**
Frame Length	**25.98 in**	Shaft Diameter	**2.375 in**
Shaft Extension	**4.75 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Variable 10:1**		

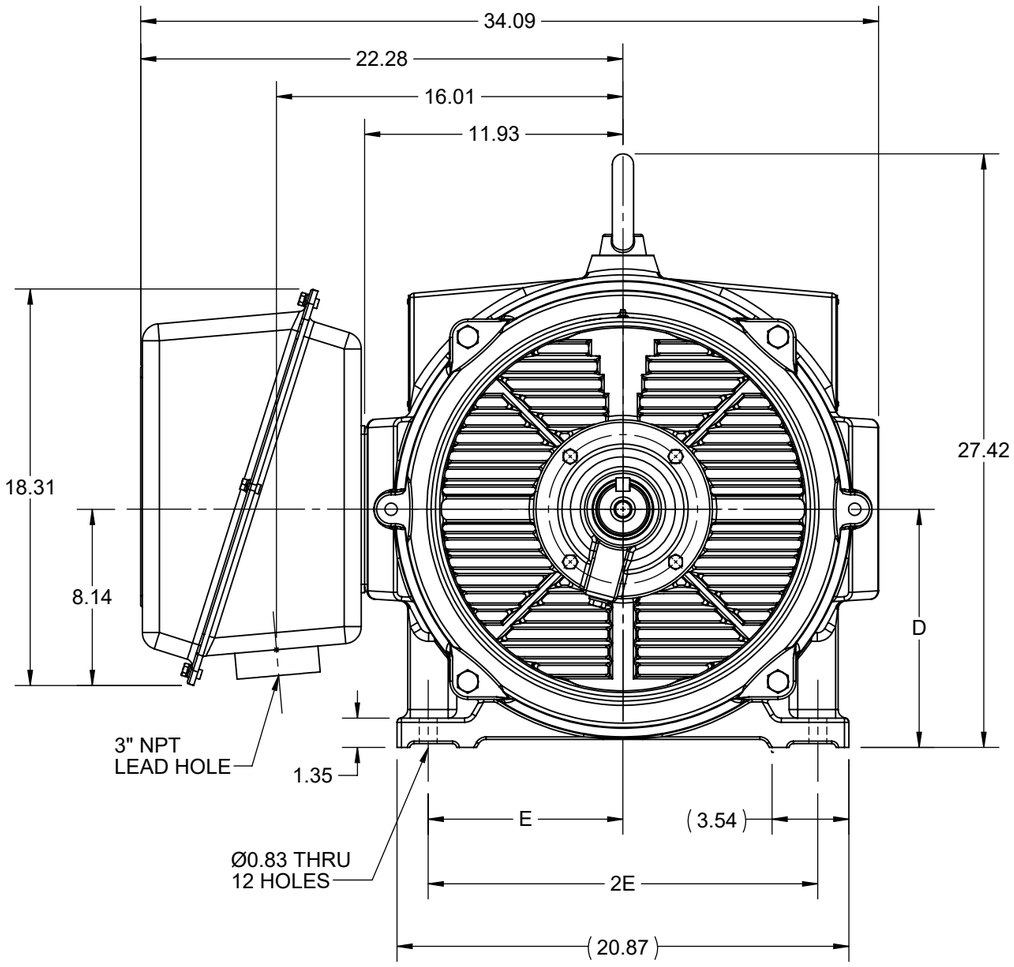
Drawings

Connection Drawing	**EE7340**	Outline Drawing	**SS620756-100**

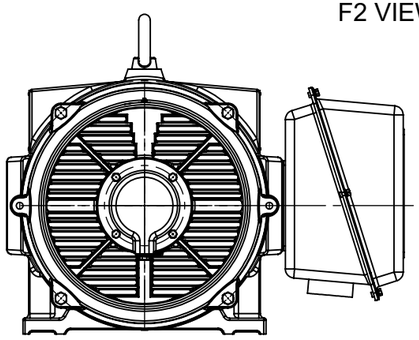
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DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	25.20	40.64	11.00	9.00	18.00	14.50	16.50	7.50	11.10	F1 OR F2	444/445TS
200	30.31	45.76				20.00	25.00		13.66		447/449TS





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	SB	07/25/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023600	SBD	07/25/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

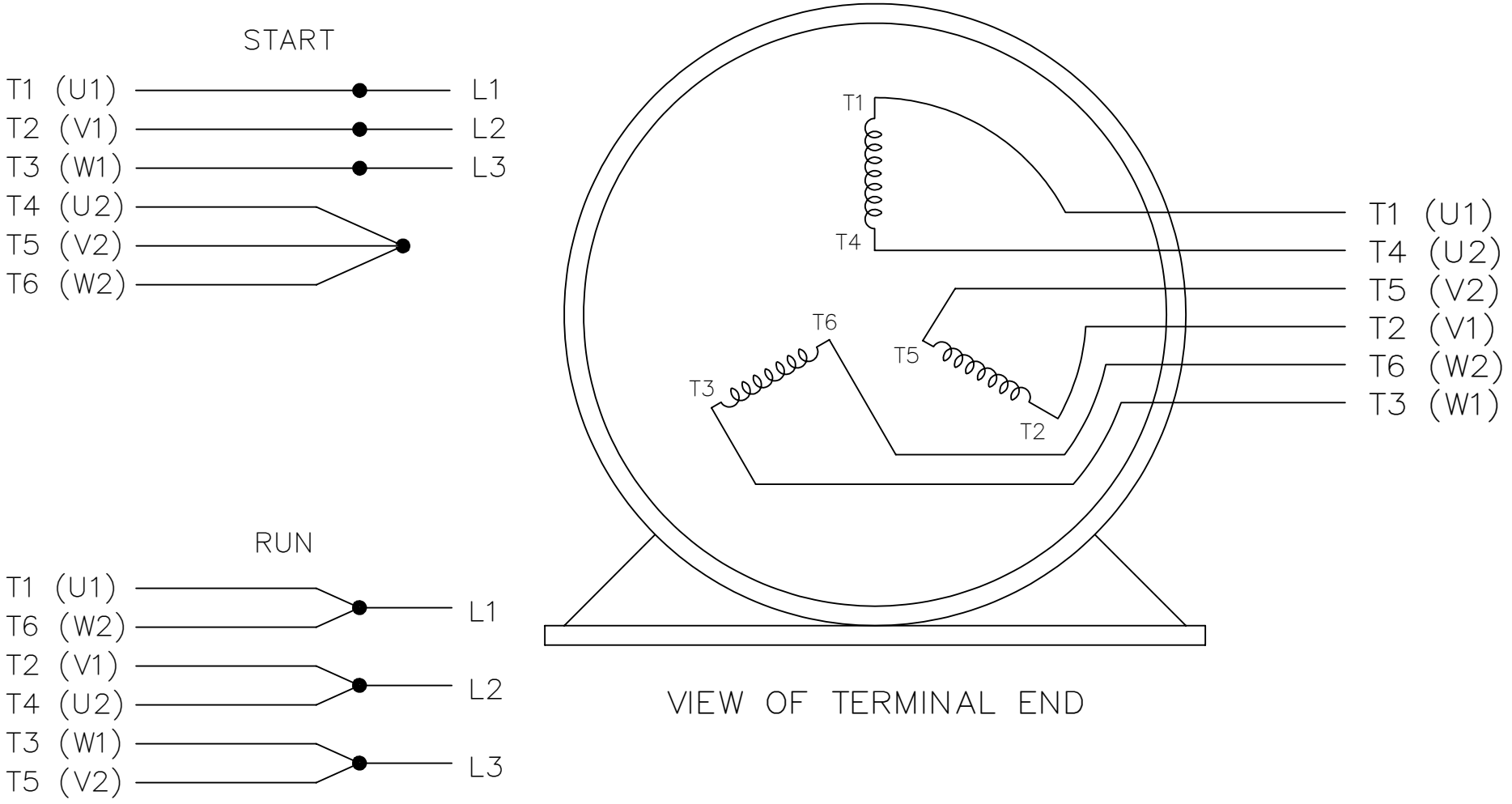
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY	DESCRIPTION
ZXW	OUTLINE
DATE	444/445/447/449TS FR NEMA ODP CAST IRON
21/07/2016	
APPROVED BY	
DATE	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS620756 / SHEET 1 OF 1

marathon™

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

445TSTDCD6060

Submittal

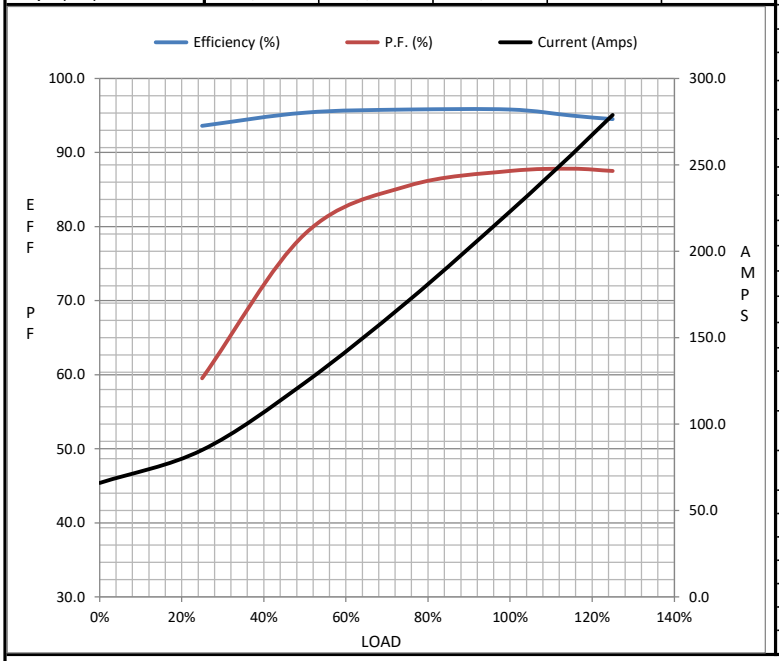
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	66.0	85.0	124	171	223	256	279	1,440	
Torque (ft-lb)	0.00	146	293	440	588	677	737	1,400	
RPM	1800	1798	1796	1792	1790	1,786	1784	0	
Efficiency (%)		93.6	95.4	95.8	95.8	95.0	94.5		
P.F. (%)	5.5	59.5	79.0	85.5	87.5	87.8	87.5	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1750	1790	1800
Current (Amps)	1,440	1,145	980	223	66.0
Torque (ft-lb)	1,400	1,025	1,700	588	0.00



Information Block

HP	200.0	
Sync. RPM	1800	
Frame	445	
Enclosure	DP	
Construction	TDC	
Voltage	460#380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	40	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	88.0	Lb-Ft²
Ref Wdg	HA32804016 NONE	
Sound Pressure @ 1M	84	dBA
VFD Rating	VARIABLE 20:1	
Outline Dwg	SS620756-100	
Conn. Diag	EE7341C	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0110	0.0070	0.0850	0.1850	4.0330

Speed -Torque Curve

